# NM - 76

# GENERAL CORRESPONDENCE

# YEAR(S): 2002 - 1997 Closed

#### Price, Wayne

From:	Price, Wayne							
Sent:	Wednesday, October 30, 2002 4:42 PM							
То:	Price, Wayne; 'seay04@leaco.net'							
Subject:	RE: Salty Bill Disposal Facility	Eddy Co. NM						

Corrected for 2003.

Original Message											
From: Price, Wayne											
Sent:	Wednesday, October 30, 2002 4:40 PM										
To:	'seay04@leaco.net'										
Subject:	Salty Bill Disposal Facility	Eddy Co. NM									

Dear Mr. Seay:

The OCD is in receipt of the progress report and closure plan dated July 22, 2002. The OCD hereby approves of the plan with the following condition:

Please install an up-gradient monitor well to determine the water quality. Please submit your results by January 15, 2003[Price, Wayne].

Sincerely: << OLE Object: Picture (Metafile) >> Wayne Price New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, NM 87505 505-476-3487 fax: 505-476-3462 E-mail: WPRICE@state.nm.us

RECEIVED AUR 0 4 2002 Environmental Bureau Oil Conservation Division

### **CORINNE B. GRACE**

#### SALTY BILL FACILITY

# CARLSBAD, NM

### **JULY 2002**

#### **EDDIE SEAY CONSULTING**

HOBBS, NM

1 1

July 22, 2002

NMOCD Environmental ATTN: Wayne Price Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: Salty Bill Disposal Facility, 711-076 NE 1/4 of NW 1/4 Sect. 36, T. 22 S., R. 36 E. Eddy Co., NM

Mr. Price:

As requested, Grace has drilled, completed and tested a monitor well on the Salty Bill lease. The monitor well, SB #1, was completed at 195' below ground. The analytical, completion diagram and log are within.

Grace would also like to continue with the closure of the pit areas, as we previously proposed. The closure that we requested was to put two foot clay liner at the bottom of each pit opening. After compacting the clay in the bottom, the pit will be backfilled and mounded over to prevent any further leaching. A cross section of the plan is within. Also, with this is an analysis of the clay and its properties.

Within this report are the various documents and photographs of the operations.

If you have any questions, please call.

Thanks,

Edie W Arm

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

## **TABLE OF CONTENTS**

1. Chronology, log and completion

1.13

11 11

H L

- 2. Map
- 3. Analysis
- 4. Diagrams
- 5. Photos

#### CHRONOLOGY

Started drilling 7/3/02, OCD was notified by letter and called.

Drilling with 4" bit using foam and water, cuttings were examined to determine geology.

7/3/02 Drilled to 48'.

7/4/02 Shut down - holiday.

7/5/02 Called OCD, continue to drill to 60', rig broke down, order parts.

7/9/02 Back drilling, called OCD, drilled to 150'.

7/10/02 Continue drilling, hit water at 175' TD at 196'.

7/11/02 Re-ream and clean out hole.

7/12/02 Run 2" pvc well pipe with 25' of 10 slot screen. TD 195' 2" pvc well screen. Top H2O 175'. Top of screen 170'. Top 20/40 sand 162'. Top of bentonite 153'. Pump cement through trimmie pipe to surface, but cement fell back to 24'. Place bentonite cap on cement.

7/13/02 Finish cementing to surface with redi mix.

7/15/02 Run in hole with 1" pvc to develop and pump well. Water level 167'.
Pumping at approximately 1 gal. per min. for 3 hrs., running conductivity to get stable reading. After 3 hrs. of pumping of approximately 180 gal. of water, the 1" was pulled and a

disposable baler was used to collect samples. Samples taken to lab.

7/16/02 Complete surface location and protective box.

1 X

Onill Rate Grace Mon. Well Min/2++ 7/3/02 160-210 ·Z /-80-24.4 Clay: Dull Rol, S+K4 45 Soi/ 42 43-G3- - KS Clay: Rd, S+ 4 63 64-84-82-INCA. Injection 82-+ 4' Cobble + Gravel: Gry. 105 17084-169 902-Conlomerate: Ltk 25 LTBAN, TN, BEE, LMY 22 Z // GRY, TN, SMEYEl 45 ← /5' 4 Z 413 Bray LMY Clay : Park, SL+y 62 Water -7612 + Water (Form 83 81-8 12 Wetter) 204 + 191 Cobble + Grave /; 1001-25 18016 AA, Loose Very Rough Broke 43 22 221 63-Drilling 44 47 82 63-Conglomerate: DNK, 612 8 2-303 Ta, BEE, Gry, URY 8 13 25 44 + Clay: RA, Stly 110 3-Snoly IN PAT, LMY 190 13 22-211 45 Clay: Rol, SLry, Sme 4 12 + Lost All Retur fa Gravel 6 13 402 82 24 1203 42-23 63 44 84 63 mm Cowglomerate: L+Brw, Gry, 50 **4** TN, Čel BN, SMESNOY, LMY 25 82 45-1304 7/4/02 66 22 86 Broke U Joint; DOWN ¥ 3 607 For Repair 7/9/02 Conglomenate: Our WHT, 84 26 47 1404 TN, BEE, TR Yel BAN, 218 Lmy 67. 87-4/2 Conglomerate : AA 67 70 5-88 26-1508 46-26 7/10/02 66 4 Clay: Rol 8. 4D 7 8 8 Conglamenate : Oct WHT, TN, BEE, Yel Ban, LMY 16013



TOPO! map printed on 07/23/02 from "New Mexico.tpo" and "Untitled.tpg"



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88240 FAX TO:

Receiving Date: 07/15/02 Reporting Date: 07/18/02 Project Owner: C. GRACE Project Name: SALTY BILL Project Location: CARLSBAD, NM

Sampling Date: 07/15/02 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

	GRO	DRO
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)
ANALYSIS DATE:	07/16/02	07/16/02
H6882-1 SB #1	<5.0	<5.0
Quality Control	13.4	13.5
True Value QC	15.0	15.0
% Recovery	89.5	89.8
Relative Percent Difference	9.1	5.2

METHOD: SW-846 8015 M

yas Al Cook

1/18/02



PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 07/15/02 Reporting Date: 07/17/02 Project Number: GRACE OIL Project Name: SALTY BILL Project Location: CARLSBAD, NM Sampling Date: 07/15/02 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

LAB NUMBER SAMPLE ID	P-Alkalinity (mg/L)	T-Alkalinity (mg/L)	Hardness (mg/L)	Chloride (mg/L)	Sulfates (mg/L)	рН (s.u.)
ANALYSIS DATE	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02
H6882-1 SB #1	0	195	827	960	193	7.16
Quality Control	NR	NR	48.0	980	49.34	6.93
True Value QC	NR	NR	50.0	1000	50.00	7.00
% Recovery	NR	NR	96.1	98.0	98.7	99.0
Relative Percent Difference	NR	NR	4.4	2.0	0.2	0.1
METHODS: EPA 600/4-79-02			130.2	325.3	375.4	150.1
Standard Method	2320 B	2320 B	-	-	-	-
LAB NUMBER SAMPLE ID	Hydroxides (mg/L)	Carbonate: (mg/L)	Bicarbonat (mg/L)	Conductivity (umhos/cm)	TDS (mg/L)	
ANALYSIS DATE	07/16/02	07/16/02	07/16/02	07/16/02	07/17/02	1
H6882-1 SB #1	0	0	238	3334	2772	-
Quality Control	NR	NR	1016	1451	NR	1
True Value QC	NR	NR	1000	1413	NR	-
		N(D)	102	103	NR	)
% Recovery	NR	NR	102			
	NR NR	NR	13.6	0.1	8.8	
% Recovery Relative Percent Difference METHODS: EPA 600/4-79-02 Standard Method				0.1	8.8	

Amy Hill Chemist

-13 F

1.1

-02 Date

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† Cardinal ennot	Sampler - UPS - Bus	Delivered By: (Circle One)	Relinquished By:		Sampler Kelinguished:	service. In no event shall Cardnai be it affiliates or successors arising out of or	PLEASE NOTE: Usbity and Damaged analyses. All dailing including those for						S 1- 2220H	) - -	LAB I.D.	FOR LAB USE ONLY	h	Project Name: Sali	Project #: Suace	Fax# 2 - 6949	Phone # 2. 223	city: Holms	Address: (an I U	Project Manager: E	Company Name: EL		ARDIN	मे
not accept verbal changes.	- Other:		Date:	Ang Time:	Date: 7	envice. In no event shall Cardinal be lable for incidental or consequental damages, includin millates or successors arising out of or related to the performance of services hereunder by	r-LEASE NOTE: Listenty and Damages. Cardinate Labiny and dient's exclusive remedy for any claim analog whether unalyses. Al claims including those for negligence and any other cause whatsoever shall be deemed waived unless m						1 # 8S		Sample I.D.		artsbar N.M	£ 5.11	Project Owner:	49	5	State: NW Zip:	w. III wois	Ind in the same	die Soon	(915) 673-7001 Fax (915) 673-7020	ARDINAL LABORATORIES, INC.	
Please fax written changes to 915-673-7020		ĕ ~~	Received By: (Lab Staff)		IS Received By:	es, including without limitation, business in reunder by Cardinal, regardess of wheth	remedy for any claim anaing whether base rer shell be deemed walved unless made i						VaV	# G S O	CONTAINERS CONTAINERS CONTAINERS CONTAINERS CONTAINER CONTAINER CONTAINER CONTAINER CONTAINER CONTAINER CONTAINER CONTAINERS CONTAINE CONT	MATRIX	$\boldsymbol{\Sigma}$	7	C. Grace			242	5	5	Cons withing			
jes to 915-673-7020.		PN CHECKED BY:	Lab Staff $1 $			arves. In no event shall Cardnai be fable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clern, its subsidantes, ministes or successors anising out of or related to the performance of services hersunder by Cardnai, repardess of whether such claim is based upon any of the above stated reasons or otherwise.	"LEARE NOTE: Learning and Demagnet. Cardina's such ity and deert's exclusive nemecy for any claim anising whether based in contract or tort, shall be sinited to the amount paid by the cleart for the analyses. Al daims including those for negligence and any other cause whatsoever shall be sensed waived unless made in writing and neceived by Cardinal within 30 days after completion of the					•	1/1/15			PRES. SAMPLING	Fax #:	Phone #:	State: Zhp:	City:	Address:	Attn:	Company:	BULTO PO #:		(505) 393-2326 Fax (505) 393-2476		
D			Grace -	REMARKS:	Ult 🛛 Yes	° <u>"</u>	amount paid by the client for the 00 days after completion of the applicable								TPH Gen Cha	(8	01.	+	     							3-2476		CHAIN
		-	Sally Bill MW	•	No Additional Fax #:     No				 																ANALYSIS			N-OF-CUSTODY AND ANALYSIS REQUEST
			ME	-		of collections, including attorney's fees.	Terms and Conditions: interest will be changed on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invo																		S REQUEST	Page		AND ANAI YSI
C		τ.					ill accounts more than the original date of invoice,																			of		S REOUEST





LABORATORY TEST REPORTS

# PETTIGREW and ASSOCIATES

DEBRA P. HICKS, P.E. WILLIAM M. HICKS, III, P.E.

1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827

**DATE OF TEST:** July 8,

SOILS DESCRIPTION: Bro

Brown Clay

LOCATION: S&H Farms

00011 1 001110

**SPECIMEN PREPARATION:** Remolded to approximately 95% of maximum dry density at optimum moisture content according to ASTM D 698.

#### SPECIMEN DATA

Initial Area 32.18 cm<sup>2</sup>

Initial Diameter: 2 1/2"

Initial Dry Unit Weight: 102.5 pcf

fell Pressure: 8 psi

Head Pressure: 6 psi

Initial Moisture Content: 14.2%

Back Pressure: 4.5 psi

Initial Height: 1"

#### Corrected Hydraulic Conductivity, K<sub>20</sub> (cm/sec)

Average Hydraulic Conductivity,  $k = 1.21 \times 10^{-6}$  cm/sec

This test was performed in general accordance with ASTM D 5084 "Standard Test Method for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter", and Corp of Engineers Manual EM 1110-2-1906, Appendix VII, "Permeability Tests".

ab No.: 9H-10889

#### PETTIGREW and ASSOCIATES, P.A.

BY: Jeren Baker E.I.

PETTIGREW and ASSOCIATES CONSULTING ENGINEERS







#### CORINNÉ GRACE SALTY BILL SWD NE/4 NW/4, SEC. 36-T22S-R26E EDDY COUNTY, NEW MEXICO (505) 887-5581 (505) 885-4485 (505) 887-0980





























# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

4

GARY E. JOHNSON Governor BETTY RIVERA Cabinet Secretary

October 3, 2002

Lori Wrotenbery Director Oil Conservation Division

Ms. Corinne Grace PO Box 1418 Carlsbad, NM 88220

Re: 5,000 Single-Well Cash Bond Corinne Grace, Principal Wells Fargo Bank – Carlsbad – Acct. No. 1353243552 Salty Bill No. 1 – 660' FNL and 1980' FWL Section 36, Township 22 South, Range 26 East, Eddy County, New Mexico Bond No. OCD-723

Dear Ms. Grace:

The New Mexico Oil Conservation Division hereby approves the above-captioned single-well cash bond.

Sincerely,

moid R. Mooth

DAVID K. BROOKS Assistant General Counsel

DKB/dp

cc: Oil Conservation Division – Artesia, NM

Wells Fargo Bank Carlsbad West Fox Office 115 West Fox Street PO Box 1689 Carlsbad, NM 88221-1689 May 2, 2003

Wayne Price NMOCD Environmental Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: Corine B. Grace Salty Bill Water Disposal Facility Carlsbad, NM

Mr. Price:

As your correspondence directed, the two monitor wells have been properly plugged and await your closure approval.

OCD, Artesia was notified of the plugging on April 25. Taylor Water Well Service conducted the plugging operations, mixing portland cement with bentonite, running 1" pvc inside the monitor wells to 180' in monitor well #1 and 160' in monitor well #3. Cement was circulated from bottom to top of ground. The 1" pipe was pulled and 2" hole was topped off at surface with cement. All surface equipment was removed. (Photos attached.)

This concludes Mrs. Grace's obligation and will look forward to final closure and bond release.

Sincerely,

Elder W Sear

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

cc: Artesia OCD

Grace Salty Bill MW #1









Salty Bill MW H 1 4/28
Grace Salty Bill MW#3



Selty Bill MW #3







April 2, 2003

Mr. Joel M. Carson Losee, Carson, Haas, & Carroll, P.A. 311 West Quay Avenue Artesia, NM 88211-1720

Re: Corinne B. Grace Salty Bill Water Disposal Facility NE/4 NW/4 of Section 36-Ts22s-R26e Eddy County, New Mexico

Dear Mr. Carson:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Salty Bill Water Disposal Facility's (SBWDF) closure report dated March 17, 2003 submitted by Eddie W. Seay, Agent for Salty Bill Water Disposal Facility. OCD will issue closure when the two on-site monitor wells are plugged properly. Please provide this information within 30 days.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Artesia Office

RECEIVED MAR 2 5 2003 Environmental Bureau Oil Conservation Division

GRACE OIL CO. SALTY BILL CARLSBAD, NM

From: EDDIE SEAY CONSULTING 601 W. ILLINOIS HOBBS, NM 88242 March 17, 2003

NMOCD Environmental ATTN: Wayne Price Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: Grace, Salty Bill SWD

Mr. Price:

Within is additional information for closure of the Grace facility. As requested, the up-gradient MW was drilled and tested, and the excavated areas have been covered. The OCD from Artesia, Mike Stubblefield, witnessed much of the activities.

We are in hopes of closing this project so as to get the bond canceled.

If you have any questions or need additional information, please call.

Sincerely,

Eddin W Sea

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

#### **Salty Bill Disposal**

The up-gradient MW #2 was located 150' NW of the disposal site. Taylor Water Well Service rigged up and began drilling 1/7/2003 on MW #2 until circulation was lost and the well began to collapse. After talking with Mr. Stubblefield and to Mr. Price, it was agreed to abandon this well and move location. The well was secured and a new location was staked 100' NW of MW #2, still up-gradient of the site. The new MW #3 is located 250' NW of the Salty Bill facility. Drilling was conducted with a 6 in. bit. Water was encountered at approximately 169'. The well was drilled to a total depth of 197' and cased to 182'. The extra rat hole was to allow for caving. The well was cased with 2" pvc monitor well pipe and .10 screen. Within is schematic of completion and log of well.

After completion, well was developed and tested. The water level was at 122.2'. The well was pumped and developed for approximately three hours extracting approximately 150 to 180 gal. of water. The water was clear and the conductivity had leveled off. The pumping equipment was pulled and sampling was conducted by using a disposable baler.

After sampling, a locking box was installed and cemented on the well. During the cementing, the old abandoned MW #2 was filled with cement and bentonite from top to bottom.

#### **Excavation Area**

As you directed, the excavated area were backfilled. At each pit, a two foot clay barrier was put in the bottom and compacted. The pit was filled from the clay to within 18" and two feet of surface with rock and caliche. The top portion was filled to surface with good clean soil native to the area. The location around the facility and monitor wells were cleaned and leveled. The facility is ready for inspection.

#### Conclusion

From this analytical of the up-gradient MW, it appears that the elevated chloride is common for this area as expected.

We feel by removing most of the contaminant from the pit areas and properly closing them and plugging the SWD well, this should eliminate any future problems.



Grace Petroleum #2

Drill Rate (Min/24+) 50il 1/6/03 0-21-4 z 62-Cobble + Grave 1: Bray, Gry 86 Off wht, Lmy 106 Clay : Yel, SL+y 22 44 Cobble + Grave 1: AA 6 7 84-204-24 4 2- Caliche + Yel Clay 63 83 30 2 Clay: Park, SIty, Sardy 2-6 3-83-40 3-23 - Clay: Rod, Snoty 42 62-82 50 2-22-42-65 + Conglomerate: Yel brw, Gry DK gry, Cale, Very 85-Broken , Rough Writing 605-25 45 65 86 6 25. 46 66-86-806

1/7/03 170-2 80.2 3-4 43-6 63-83-180 90 5 2 25 4 45 6 3 Clay. Palk, Stly 8 Congl: AA 84 190 100 4- Los + All Returns 2 4 45 8 6 8 82- Very Rough Drilling 200 1103 Boil Hole (Day) 2 1/8/08 4 Move Rig ٢ 8 Plagged Hole W/ Portland Cement + Benton te 120 2 6 8 130 2 4 6 8 140 2 4 6 8 150 2 4 8 160 2 ų ٢ 8 170

Grace Oil #3

2-21-1/10/03 501/ 61 84 Cobble + Gravel: Bin, iel Bin. 1034 Gry, DEE WHT, TN. LINY 22 CHRTY IP 4 1-Clay: DL Rd, Snoly 61-8 /-01-22 ← (obble +Grave): L+Brn, Yel Brn, 43-64 DKGRY, Drk. OFEWHT, 84 LMY, CHRTY IN **93**-23-+ 3-+ Clay: Null Rd, SL+y-Snuly + Cobble + Gravel: Dkgry 23 13 Yel Bow, Gry, OKE WHT 65-Lmy, Chrity 83 23 23 43-63 34-1/11/03 06-25 45 + Clay: MLRON, Sudy SL+, Cobble + Gravel: AA 54 + (lay: Mull Rd, SLty. Conglomerate: Yelben, Ben Gry, OLL WHT, LMY 8-6-06-

90-27-48-69 89 90 10 2 11 + Clay: Yel; Sm + h-SL+y 44-83-100 3-1/12/03 24 + Clay L+GRY, SM+h-64 SLty 84 4 110 12 Clay: OK Rd, Smth, 2.21 VRYS+KY 4 3- + 1 . A . Ra Clay: BAT Ra, SLTY 6 4 88 1209 24 43-64 89 1309 Clay: L+Ra, Thin Layers Of Clo Gyp 8 67 86 140 4-26 - + Awhy Clr, Frstd, Sme 46 7 88 WHT, VFN-FNYLV 150 6-SMEGYP 25-AA: Gme L+ Brw-Brw. 46 68 ANHY 87 1607 1/13/03 25-4 C--67 85 + 168-169' RdClay 170 5 169' Water

17025 Anhy: Fosted, L. 4 5- Bra, CIR, Fostor 65- UFN-FNXLN 8 6 - Abn dat Water 180 6-+ 1/20/03 Rol Clay + 64P 44 6 85 AUG + ANHY: WHT, Enstain SMECLRGYP 27 VFNXIN-MS 48 68 TD 197' \$3z∞

Air Drilled to 180' Hole was too unstable. Mixed mudand drilled to 197! Cased well to 182'.

Grace Oil#3







PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 01/22/03 Reporting Date: 01/24/03 Project Owner: C. GRACE Project Name: SALTY BILL DISPOSAL Project Location: CARLSBAD, NM Sampling Date: 01/22/03 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AH

LAB NUMBER	R SAMPLE ID	P-Alkalinity (mg/L)	T-Alkalinity (mg/L)	Hardness (mg/L)	Chloride (mg/L)	Sulfates (mg/L)	рН (s.u.)
ANALYSIS D	ATE _	01/23/03	01/23/03	01/23/03	01/23/03	01/23/03	01/23/03
H7422-1	MW #2	0	150	3280	1799	2390	7.72
			5 				
Quality Contro	Quality Control		NR	41	1050	50.20	6.91
True Value Q	C	NR	NR	50	1000	50.00	7.00
% Recovery		NR	NR	82.0	105	100	98.7
Relative Perce	ent Difference	NR	NR	1.4	0.1	0.7	0.4
METHODS:	EPA 600/4-79-02	-	-	130.2	325.3	375.4	150.1
	Standard Method	2320 B	2320 B	-	-	-	-
LAB NUMBER	R SAMPLE ID	Hydroxides (mg/L)	Carbonate: (mg/L)	Bicarbonat (mg/L)	Conductivity (umhos/cm)	TDS (mg/L)	

ANALYSIS DATE	01/23/03	01/23/03	01/23/03	01/23/03	01/24/03
H7422-1 MW #	0	0	183	9113	8746
Quality Control	NR	NR	1068	1322	NR
True Value QC	NR	NR	1000	1413	NR
% Recovery	NR	NR	107	93.6	NR
Relative Percent Difference	NR	NR	7.7	0.7	0.8

160.1 METHODS: EPA 600/4-79-02 120.1 Standard Method 2320 B 2320 B 2320 B -Ch emist Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates of 422 essors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 01/22/03 Reporting Date: 01/23/03 Project Owner: C. GRACE Project Name: SALTY BILL DISPOSAL Project Location: CARLSBAD, NM Sampling Date: 01/22/03 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBER SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> )	DRO (>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
ANALYSIS DATE:	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
H7422-1 MW #3	<5.0	<5.0	<0.002	<0.002	<0.002	< 0.006
Quality Control	13.4	13.5	0.111	0.104	0.105	0.299
True Value QC	15.0	15.0	0.100	0.100	0.100	0.300
% Recovery	89.5	89.8	111	104	105	99.8
Relative Percent Difference	9.1	5.2	<0.1	5.1	6.1	4.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

#### H7422BT.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	Page of	ANALYSIS REQUEST				, ,	5	БЛ ЛG			ризд На На (3 18				Terms and Consolutions: itakense the be entraged on all accounts more than 30 days past due at the rise of 24% per annum hom of ginal date of involce, and all costs of collections, including attorney's feet	JR: CIVes CINO Add'I Phone #: CIVes CINO Add'I Fax #:			
CHAIN-	IVC. 101 East Mariand, Hobbs, NM  88240 (505) 393-2326 Fax (505) 393-2476		P.O. #- Commany	Attn:	Address:		State: Zip:	Phone #:	Fax #:	IX PRESERV SAMPLING	SLUDGE STUDGE OTHER : DOL SABASE: DOL SABASE: DOL SABASE S	1/22 13:25			sed in courses of tort, statis he timed to be amount part by the chart by the le in willing and received by Cardinal Withh 30 days after completion of the applicable Haruptions, loss of use, or tests of profits incurred by client, its subsidiaries,	1: Fax Result: REMARKS:	:: (Lab Staff)	Multion CHECKED BY: lact (Initials) No No	
	UINAL LABUKA I UKIES, INC. 11 Beechwood, Abilene, TX 79603 101 East (915) 673-7001 Fax (915) 673-7020 (505) 393	Eddie Seen Consulting	Edic w Su	State: UM ZIP: 8(247	3 b Fax#:		Sett full is	Mrv Prostant	Edd w W Sang		CRUDE OIL CRUDE OIL SOIL CRUDE OIL SOIL CRUDE OIL SOIL	3 J			PLEARE NOTE: Liberary and Carmone. Grantme strangy and dears excanses enterwork may again strang proteine based Protections in the strangth of the service. In no event that Cardinal be bash for photonial or consequented damages, including without lambian, business historycian		Received By		
Je le	21 21	Company Name:	Project Manager:	City: 1 1 100	Phone #: 2 -	Project #: Salt	Project Name:	Project Location:	Sampler Name:	FOR LAB USE ONLY	Lab I.D.	1-222-1			PLEASE NOTE: LIADERY and analyses. All claims including service. In no event shall Can	Sampler Relinqu	Relinquished By	Delivered Bv: (Circle One) Sampler - UPS - Bus - Other:	

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.



mw # 3









mw \* 3









# MW #2 P+A











### Pit Covering





Final



RECEIVED SEP 1 R 2001 Environmental Bureau Oil Conservation Division

GRACE OIL CO. SALTY BILL CARLSBAD, NM

From: EDDIE SEAY CONSULTING 601 W. ILLINOIS HOBBS, NM 88242 September 10, 2001

NMOCD Environmental Bureau ATTN: Wayne Price P.O. Box 6429 1200 S. Saint Francis Drive Santa Fe, NM 87504

RE: Salty Bill - Closure Grace Oil

Mr. Price:

As requested, additional testing was conducted on July 27, 2001. I have been waiting on additional information about this site and aerial photos to send with this report. Find within photos, aerial photos, water well information, analytical and associated information.

The testing was done by using an air rotary drilling rig and collecting samples at various depths at the three sites. All activities were witnesses by OCD Field Representative, Mr. Phil Hawkins.

If additional information is needed or if you have any questions, please call. I thank you for your time and patience in this matter.

Sincerely,

Pldie w Sea

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

#### SUMMARY AND OVERVIEW

The compliance and cleanup of the Salty Bill site started in 1998. Some excavation of soils and lining of tanks was done at this time, but compliance was never achieved.

I became involved in 2000, I was able to convince Grace Oil to stop operations and close facility. We have dismantled and moved all equipment, plugged the brine well and excavated all soils which were above OCD guidelines for TPH and BTEX. We are now trying to meet the OCD's request in reducing the chloride content for final closure.

We have conducted sampling at the battery, pit and sump areas on three different occasions, one in March, another in June, using a backhoe to sample as deep as possible. Fifteen feet was as deep as the machinery would dig. All data has been submitted to the OCD for review.

In July, we were able to acquire a rotary drilling rig to sample at deeper depths. Samples were taken at different depths. Listed are the logs for the sites:

Battery

B-1 20 ft. red sand and rock

B-2 30 ft. red sand and rock

at 28 ft., a hard rock layer was encountered and drilling was stopped at 30 ft. The driller said we would have to drill on foam and water to continue, sampling was done at 20 and 30 ft.

Pit Area

P-1 at 20 ft. red sand and rock, the hole kept caving in, a sample was taken.

Sump Area

- S-1 sample at 16 ft. red sand, clay and rock
- S-2 sample at 28 ft. hit hard rock, and gravel. Hole started caving, samples were taken.

The driller said the only way to obtain samples was to run steel conductor pipe as we drilled and drill with water.

#### **GEOLOGY/HYDROLOGY**

Within find the logs from the only water well in the general area, the logs show red-shale and limestone to 300 ft. and water at 180 to 192. The water level stands at approximately 115 to 120 ft. This well is no longer in use so a sample could not be obtained. All the water in the area is piped in by the City of Carlsbad. The offset oil well logs show redbed and sand from 0 to 500. (see logs)

Also, before Grace Oil was in operation, this site and surrounding area was a military facility (aerials within). We are not sure of the activities that had occurred on this site and are reluctant to do any additional digging and drilling.

### **CONCLUSION AND RECOMMENDATIONS**

Although we still have elevated chloride in the soil, I feel by lining the bottoms with two feet of clay plus the fact we have some two hundred feet of red shale between surface and groundwater, this will prevent any migration of salt downward. We will backfill and mound the areas to prevent ponding and leaching.

Please consider our recommendation so final closure can be achieved.







PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE W. SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 07/30/01 Reporting Date: 07/31/01 Project Owner: C. GRACE Project Name: GRACE-SALTY BILL Project Location: CARLSBAD, NM Analysis Date: 07/30/01 Sampling Date: 07/27/01 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM

CI

(mg/Kg)

LAB NUMBER SAMPLE ID

H6023-1	B-1	2170
H6023-2	B-2	809
H6023-3	P-1	1360
H6023-4	S-1	4130
H6023-5	S-2	2850
Quality Contro		936
True Value QC	1000	
% Recovery	93.6	
<b>Relative Perce</b>	6.0	

METHOD: Standard Methods4500-CIBNOTE: Analyses performed on 1:4 w:v aqueous extracts.

H6023.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

↑ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

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Water well

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#### Revised June 1972

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#### STATE ENGINEER OFFICE

#### WELL RECORD

			Section 1.	GENERA	L INFOR	MATION						
Street or I	Post Office Ad	Army (Now dress					Own	er's Well	No	1		
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Address							- Diccline 140.2			<u></u>		
Drilling Began	_											
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Plugging Contr				·····								
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			FOR USE	OF STAT	TE ENGIN	FER ONI	v					

Date Received

C-853

Well No. 1 on Photo PRC-1-71 FWL Quad \_ \_ FSL.

File No.\_

Use.

\_\_\_\_ Location No.\_\_22.26.36.111214\_
,* 	_		Section 6. LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	
194	220	26	Red Shale
220	228	8	Limestone
228	255	27	Red Shale
255	265	10	Red Shale
265	280	15	Sandy Shale
280	293	13	Limestone
293	300	7	Red Shale
			(Bottom of Hole 300')
			Cased from bottom to top with 11" OD pipe
			Perforated 180' - 192' (Prob. 175' - 190')
. <u></u>			220' - 228'
			280' - 293'
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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This forr of the State Engineer, All

id be executed in triplicate, preferably typewritten, and submitte ns, except Section 5, shall be answered as completely and accui drilled, repaired or deepened. ' hen this form is used as a plugging record, only Section 1(a) and Section

"propriate district office 5 neible when any well is completed.

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Well Logs

DISTRIBUTION	<u>***</u>							Form C - I Revised	
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AND OFFICE				MAY	6 197		ł	P (10-4	
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<b>Oil Report</b>			÷		-	•			d Popl, or Wildcot y Scarboadon C - 194 10-1
· • • • •					<u>IIIIII</u>		()))	12. County	
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11,566-572	brrow								Made <b>Yes</b>
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, type precute and g	Other Logs	Run						[ 27, Wo	as Well Cored
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CASING SIZE 13 3/8 8 5/8 5 1/2 SIZE Perforation Record 11,566 - 11, te First Production (2/71 te of Test (2/71* bow Tubing Press. 573	WEIGH SI 33 17# 5 10P (Interval, s 572 Hows Te 24 Casing F Pic	Micro	CAS DEPTH 36 5421 11,96 R RECORD BOTTOM nber) nber)	PROJ Prod'n. For Test Period	DUCTION DUCTION DIL SIZE 17 1/2 17 1/2 11 3/4 7 7/8 32. A DEPTH IN 11,566-5 DUCTION ping - Size and Oil - Bbl. NO	CEMENT SO 1650 1650 102 30. SIZE 2.7/8 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. SIZE CID, SHOT, FR. SIZE S	T DE J ACTURE, AMOL None Wate I	UBING RECO PTH SET 565 CEMENT SOL INT AND KIN Well Status Shut In m - Bbl. 032* Oil	No AMOUNT PULL none none none DRD PACKER SET 11,529 JEEZE, ETC. ID MATERIAL USED s (Prod. or Shut-in) M Gas – Oil Ratio TSTM Gravity – API (Corr.
CASING SIZE 13 3/8 8 5/8 5 1/2 SIZE Perforation Record 11,566 - 11, te First Production /2/71 te of Test /2/71* ow Tubing Press. 573 Disposition of Gas	WEIGH SI 33 17# 5 10P (Interval, s 572 Hows Te 24 Casing F Pic	Micro	CAS DEPTH 36 5421 11,96 R RECORD BOTTOM nber) nber)	PRO PRO PRO PRO PRO PRO PRO PRO	port all strings s         port all strings s         port all strings s         11 1/2         11 3/4         7 7/8         SCREEN         32.         A         DEPTH II         11,566-5         DUCTION         ping - Size and         Oil - Bbl.         No         Gas - MC         t rate 4-p	CEMENT CEMENT 50 165 102 30. SIZE 2 7/8 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. SIZE CID, SHOT, FR. SIZE SI	T DE J ACTURE, AMOL None Wate I	UBING RECO PTH SET 565 CEMENT SOL UNT AND KIN Well Status Shut In Shut In 032*	No AMOUNT PULL none none none DRD PACKER SET 11,529 JEEZE, ETC. ID MATERIAL USED s (Prod. or Shut-in) M Gas – Oil Ratio TSTM Gravity – API (Corr.
Camma Ray, N CASING SIZE 13 3/8 8 5/8 5 1/2 SIZE Perforation Record 11,566 - 11, te First Production /2/71 te of Test /2/71* ow Tubing Press. 573 Disposition of Gas be sold	WEIGH SI 33 17# 6 TOP (Interval, s 572 Hours Te 21, Casing F Pk (Sold, used	Micro	CAS DEPTH 36 5421 11,96 R RECORD BOTTOM nber) nber)	PRO PRO PRO PRO PRO PRO PRO PRO	SCREEN           32.         A           DEPTH II         11,566-5           DUCTION         ping - Size and           Oil - Bbl.         No	CEMENT CEMENT 50 165 102 30. SIZE 2 7/8 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. SIZE CID, SHOT, FR. SIZE SI	T DE J ACTURE, AMOL None Wate I	UBING RECO PTH SET 565 CEMENT SOL INT AND KIN Well Status Shut In m - Bbl. 032* Oil	No AMOUNT PULL none none none DRD PACKER SET 11,529 JEEZE, ETC. ID MATERIAL USED s (Prod. or Shut-in) M Gas – Oil Ratio TSTM Gravity – API (Corr.
CASING SIZE 13 3/8 8 5/8 5 1/2	WEIGH SI SI SI SI SI SI SI SI SI SI SI SI SI	Micro	CAS DEPTH 36 5421 11,96 R RECORD BOTTOM nber) nber)	PRO PRO PRO PRO PRO PRO PRO PRO	port all strings s         port all strings s         port all strings s         11 1/2         11 3/4         7 7/8         SCREEN         32.         A         DEPTH II         11,566-5         DUCTION         ping - Size and         Oil - Bbl.         No         Gas - MC         t rate 4-p	CEMENT CEMENT 50 165 102 30. SIZE 2 7/8 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. NTERVAL 572 CID, SHOT, FR. SIZE CID, SHOT, FR. SIZE SI	T DE J ACTURE, AMOL None Wate I	UBING RECO PTH SET 565 CEMENT SOL INT AND KIN Well Status Shut In m - Bbl. 032* Oil	No AMOUNT PULL none none none DRD PACKER SET 11,529 JEEZE, ETC. ID MATERIAL USED s (Prod. or Shut-in) M Gas – Oil Ratio TSTM Gravity – API (Corr.
CASING SIZE 13 3/8 8 5/8 5 1/2 SIZE Perforation Record 11,566 - 11,	WEIGH WEIGH 51 32 17# 4 TOP (Interval, s 572 Hours Te 24 Casing F Pk (Sold, used	Micro	CAS DEPTH 364 5421 11,96 R RECORD BOTTOM BOTTOM nber) nber) nber) Choke Size Choke Size Choke Size Choke Size	PRODUCE SACKS CEMENT	port all strings s         port all strings s         port all strings s         12         17         1/2         11         3/4         7         7/8         SCREEN         32.         A         DEPTH IN         11,566-5         DUCTION         ping - Size and         Oil - Bbl.         No         Gas - MC         AOF 10,59	CEMENT 50 165 102 30. 51ZE 27/8 CID, SHOT, FR NTERVAL 572 CID, SHOT, FR STR CID, SHOT,	T DE L L ACTURE, AMOL None Wate L Er - Bbl. Test	UBING RECO PTH SET 565 CEMENT SOL UNT AND KIN Well Status Shut In Shut In O32* Oil UNTessed B	No AMOUNT PULL <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>DRD</b> PACKER SET <b>11,529</b> JEEZE, ETC. ID MATERIAL USED State (Prod. or Shut-in) <b>N</b> Gas - Oil Ratio <b>TSTM</b> Gravity - API (Corr.
CASING SIZE 13 3/8 8 5/8 5 1/2 SIZE Perforation Record 11,566 - 11,	WEIGH WEIGH 51 33 17# 6 TOP (Interval, s 572 Hours Te 24 Casing F Casing F Casing F Casing F Casing F Casing F Casing F	Micro TLB./FT.	CAS DEPTH 36 5421 11,96 R RECORD BOTTOM BOTTOM nber) nber) nber) Choke Size Calculated 24 Hour Rate ented, etc.)	PRODUCE SACKS CEMENT	port all strings s         port all strings s         port all strings s         12         17         1/2         11         3/4         7         7/8         SCREEN         32.         A         DEPTH IN         11,566-5         DUCTION         ping - Size and         Oil - Bbl.         No         Gas - MC         AOF 10,59	CEMENT 50 165 102 30. 51ZE 27/8 CID, SHOT, FR NTERVAL 572 CID, SHOT, FR STR CID, SHOT,	T DE L L ACTURE, AMOL None Wate L Er - Bbl. Test	UBING RECO PTH SET 565 CEMENT SOL UNT AND KIN Well Status Shut In Shut In O32* Oil UNTessed B	No AMOUNT PULL <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>DRD</b> PACKER SET <b>11,529</b> JEEZE, ETC. ID MATERIAL USED State (Prod. or Shut-in) <b>N</b> Gas - Oil Ratio <b>TSTM</b> Gravity - API (Corr.
CASING SIZE 13 3/8 8 5/8 5 1/2 SIZE Perforation Record 11,566 - 11,	WEIGH WEIGH 51 32 17# 4 TOP (Interval, s 572 Hours Te 24 Casing F Ph: (Sold, used S c logs	Micro TLB./FT.	CAS DEPTH 36 5421 11,96 R RECORD BOTTOM BOTTOM nber) nber) nber) Choke Size Calculated 24 Hour Rate ented, etc.)	PRODUCE PRODUC	port all strings s         port all strings s         port all strings s         12         17         1/2         11         3/4         7         7/8         SCREEN         32.         A         DEPTH IN         11,566-5         DUCTION         ping - Size and         Oil - Bbl.         No         Gas - MC         AOF 10,59	CEMENT 50 165 102 30. 51ZE 27/8 CID, SHOT, FR NTERVAL 572 CID, SHOT, FR STR CID, SHOT,	T DE L L ACTURE, AMOL None Wate L Er - Bbl. Test	UBING RECO PTH SET 565 CEMENT SOL UNT AND KIN Well Status Shut In Shut In O32* Oil UNTessed B	No AMOUNT PULL none none none PACKER SET 11,529 JEEZE, ETC. ID MATERIAL USED S (Prod. or Shut-in) M Gas – Oil Ratio TSTM Gravity – API (Corr.

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### INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

#### Southeastern New Mexico

### Northwestern New Mexico

T. B. T. T. T. T.	Salt Salt Yates 7 Rivers Queen Grayburg San Andres	T. T. T. T. T. T.	Strawn         10,298           Atoka         10,872           mssHorrow         11,420           Devonian	T. T. T. T. T. T.	Ojo Alamo Kirtland-Fruitland Pictured Cliffs Cliff House Menefee Point Lookout Mancos Gallup e Greenhorn	T. T. T. T. T. T.	Penn. "C"         Penn. "D"         Leadville         Madison         Elbert         McCracken         Ignacio Qtzte
T. T. T. T. T. T.	Blinebry Tubb Drinkard Abo Wolfcamp Penn	T. T. T. T. T. T.	Gr. Wash Granite Delaware Sand Bone Spring Bone Springs Sd 6318	T. T. T. T. T.	Dakota Morrison Todilto Entrada Wingate Chinle Permian Penn. ''A''	T. T. T. T. T.	

### FORMATION RECORD (Attach additional sheets if necessary)

From	То	Thickness in Feet	Formation	From	Ta	Thickness in Feet	Formation
11470	1900 2020 5410 6330 6610 6900 7110	365 215 160 120 3390 920 280 290 210 1320 3040 290 174	Sand & Anhydrite Lime & Shale Sand, Shale & Lime Lime & Shale Lime, Sand & Shale				
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DISTRIBUTION	··· (2	•						Form ( Revis	ed 1-1-65
SANTA FE						•		5g. Indica	te Type of Lease
FILE						N COMMISSIO		State	
U.S.G.S.		WELL COMPL	ETION O	R RECO	DMPLETIE	NREPORT	AHD POC		hil & Gas Lease No.
LAND OFFICE									
OPERATOR							1	mm	<u>K-6290</u>
	₩↓	· ·			N	MAR 2219	73		
A. TYPE OPWELL	tor f								greement Name
		c		~~~		O. C. C		7. 000 7.	treement Itama
b. TYPE OF COMPLE	WE	L GAS		DRY	OTHER	C. C. C. RTESIA, OFF		0 France	r Lease Name
·		PLUC	ان الــــــ	rr. 🗂					
Name of Operator	A DEEP			SVR.	OTHER			Grac	e-Carlsbad
								a' well vo	<b>,</b>
COTIN Address of Operator	ne Grace								1
· · · ·			to de a					10, Field	and Pool, or Wildcat
P O Box	1418, Carl	Lsbad, New M	1ex1co		·		13	Indes.	South Carlsbad
. Focution bi Mell	i						•	IIIII	
_		1080		0-1	at h	660			
NIT LETTER	LOCATED	1980 PEET 1	-	500	LINE AND		FEET FROM	VIVIII	mmmm
-	24	005	04 P		VIIII	/////////	IIIIII	12. Count Edd V	x VIIIIII
E East LINE OF	sec. 36	TWP. 225 RG	<u></u>	NMPM	VIIIII	TIIIXIII	mm	y	
5. Date Spudded			Compl. (R)	eady to P	rod.) 18.	Elevations (DF 3207.8	, <i>RKB</i> , <i>RT</i> , G	R, etc.) 19	9, Elev. Cashinghead
2/11/72	4/2/72		4/72			•			
0. Total Depth		ug Back T.D.	22.	lf Multiple Many	e Compl., Ho	w 23. Interv Drille	rals , Rotar od By 0-11	y Tools 875	Cable Tools
11.875		1.764 КВ		······	<u>د</u>		<u>→``</u>		· · · · · · · · · · · · · · · · · · ·
4. Producing Interval(s	), of this comple	stion — Top, Botto	m, Name						25, Was Directional Sur Made
Ma error		6 030 1							Yes
	W 11 - 80				· · · · · · · · · · · · · · · · · · ·				
6. Type Electric and C	ther Logs Run	ratamalan (	lommo D	ow Not	itron A	HC Acoust	ilog	27.	Was Well Cored NO
the second s	retorog, 1	Laterolog, (	Jamma It	ay 100					
8.			SING RECO	RD (Rep	ort all string	s set in well)			
CASING SIZE	WEIGHT LB		HSET	HOL	ESIZE		NTING REC		AMOUNT PULLE
13 3/8	48#	38:			<b>L</b> (	400 sks C			circ1.
9 5/8	40# & 30					1050 sks		S UL. "	• · · · · · · · · · · · · · · · · · · ·
7	26# & 2	3# 1073	5		8 3/4	335 Class	<u>"H "</u>		
				<u> </u>	·		·		
9.	I	LINER RECORD	_ <del></del>			30.	1	UBING RE	CORD
A	TOP	BOTTOM	SACKS C	EMENT	SCREEN	SIZE		PTH SET	PACKER SET
SIZE		1 77 875	200			2 3/8		1.7	10169
size	10,634	11,875		1				(71)	
J <sub>1</sub> 1/2			<u> </u>	<u></u>		2 3/8	11		
J <sub>1</sub> 1/2	Interval, size an	nd number)	- <u>جب محمد ال</u>		32.	2 3/8			QUEEZE, ETC.
), 1/2 1. Perforation Record ( 11486-88	(Interval, size and (8 shots)	nd number) 11524-26	( 8 sh	 nots≬		2 3/8	FRACTURE,	CEMENT S	
), 1/2 1. Perforation Record ( 111,86-88 111,90-96 (2	(8 shots) (4 shots)	nd number)	( 8 sh	 nots≬		2 3/8 ACID, SHOT, INTERVAL	FRACTURE,	CEMENT S	QUEEZE, ETC.
1, 1/2 1. Perforation Record ( 11486-88 11490-96 (2 11498-05 (2	(8 shots) (8 shots) 24 shots) 21 shots)	nd number) 11524-26	( 8 sh (12 sh	nots( nots)	DEPTH	2 3/8 ACID, SHOT, INTERVAL	FRACTURE,	CEMENT S	QUEEZE, ETC.
1. Perforation Record ( 114,86-88 114,90-96 (2 114,98-05 (2 11507-09 (	(Interval, size an (8 shots) 24 shots) 21 shots) 8 shots)	nd number) 11524-26	( 8 sh (12 sh	nots( nots)	DEPTH	2 3/8 ACID, SHOT, INTERVAL	FRACTURE,	CEMENT S	QUEEZE, ETC.
1, 1/2 1. Perforation Record ( 11486-88 11490-96 (2 11498-05 (2	(hterval, size an (8 shots) 24 shots) 21 shots) 8 shots)	nd number) 11524-26	( 8 sh (12 sh	nots( nots)	DEPTH	2 3/8 ACID, SHOT, INTERVAL	FRACTURE,	CEMENT S	QUEEZE, ETC.
J <sub>1</sub> 1/2 1. Perforation Record ( 111,86-88 111,90-96 (2 111,98-05 (2 11507-09 ( 11516-22 (2)	Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 18 shots)	 11524-26 11511-14	( 8 sh (12 sh	nots) nots) PRODI	DEPTH	2 3/8 ACID, SHOT, INTERVAL	FRACTURE,	CEMENT S	QUEEZE, ETC.
1, 1/2 1. Performition Record ( 11486-88 11490-96 (2 11498-05 (2 11507-09 ( 11516-22 (2) 3.	Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 18 shots)	nd number) 11524-26	( 8 sh (12 sh	nots) nots) PRODI	DEPTH	2 3/8 ACID, SHOT, INTERVAL	FRACTURE,	CEMENT S	QUEEZE, ETC.
), 1/2 1. Perforation Record ( 11486-88 11490-96 (2 11498-05 (2 11507-09 ( 11516-22 (2) 3.	Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 18 shots)	 11524-26 11511-14	( 8 sh (12 sh	nots) nots) PRODI	DEPTH	2 3/8 ACID, SHOT, INTERVAL	FRACTURE,	CEMENT S UNT AND K DIRE	QUEEZE, ETC.
), 1/2 1. Perforation Record ( 11),86-88 11),90-96 (2 11),98-05 (2 11507-09 ( 11516-22 (2 3. ate First Production ate of Test	Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 18 shots) Produce Tested	11521,-26 11521,-26 11511,-14	( 8 sh (12 sh wing, gas l ring [Prod'n.	PRODI	DEPTH NOT UCTION ing - Size ar	2 3/8 ACID, SHOT, INTERVAL IC d type pump) Gas - MC	FRACTURE, AMOU NC	CEMENT S UNT AND K ONC Well Stat S r - Bbl.	QUEEZE, ETC. IND MATERIAL USED
J <sub>1</sub> 1/2 1. Perforation Record ( 11)486-88 11)490-96 (2 11)498-05 (2 11507-09 ( 11516-22 (2 3. ate First Production ate of Test	(8 shots) (8 shots) 24 shots) 21 shots) 8 shots) 18 shots) Prod	] 11524-26 11511-14 11511-14	( 8 sh (12 sh wing, gas l	PRODI	DEPTH NOT UCTION ing - Size ar OII - Bbl. ()	2 3/8 ACID, SHOT, INTERVAL IC d type pump) Gas - MC   * 852	FRACTURE, AMOU NC	CEMENT S UNT AND K DIE Well Stat	QUEEZE, ETC. IND MATERIAL USED
J <sub>1</sub> 1/2 1. Perforation Record ( 111486-88 11490-96 (2 11498-05 (2 11507-09 ( 11516-22 (2 3. ate First Production ate of Test 7/7/72 low Tubing Press.	Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 18 shots) 18 shots) Hours Tested 4 Casing Pressu	nd number) 11524-26 11511-14 Nuction Method (Fla Flow Choke Size re Calculated 2	( 8 sh ( 12 sh ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	PRODI	DEPTH NOT UCTION ing - Size an OII - Bbl. () Gas - 1	2 3/8 ACID, SHOT, INTERVAL 18 d type pump) Gas - MC   * 852 MCF	FRACTURE, AMOUNC NC	CEMENT S UNT AND K DDC Well Stat S r - Bbl. O	QUEEZE, ETC. IND MATERIAL USED Jus (Prod. or Shut-in) hut -In [Gas-Oll Ratio
), 1/2 1. Perforation Record ( 114,86-88 114,90-96 (2 114,98-05 (2 11507-09 ( 11516-22 (2 3. ate First Production ate of Test 7/7/72	Interval, size an (8 shots) 21 shots) 8 shots) 18 shots) 18 shots) Produce Tested 4	nd number) 115214-26 11511-14 Suction Method (Flow Choke Size	( 8 sh ( 12 sh ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	PRODI	DEPTH NOT UCTION ing - Size an OII - Bbl. () Gas - 1	2 3/8 ACID, SHOT, INTERVAL IC d type pump) Gas - MC   * 852	FRACTURE, AMOUNC NC	CEMENT S UNT AND K DDC Well Stat S r - Bbl. O	QUEEZE, ETC. IND MATERIAL USED USE (Prod. or Shut-in) hut-In Gas-Oil Ratio TSTM
), 1/2 1. Perforation Record ( 114,86-88 114,90-96 (2 11498-05 (2 11507-09 ( 11516-22 (2 3. ate First Production ate of Test 7/7/72 low Tubing Press. 1595.0 4. Disposition of Gas (	Interval, size an (8 shots) 21 shots) 8 shots) 8 shots) 18 shots) Produced Hours Tested 4 Casing Pressue Pkr. Sold, used for fu	nd number) 11524-26 11511-14 ILSI1-14 Inction Method (Flo Flow Choke Size re Calculated 2 Hour Rate uel, vented, etc.)	( 8 sh (12 sh wing, gas l ring Prod'n. Test Pe 	PRODI	DEPTH NOT UCTION ing - Size an OII - Bbl. () Gas - 1	2 3/8 ACID, SHOT, INTERVAL 18 d type pump) Gas - MC   * 852 MCF	FRACTURE, AMOUNC NC	CEMENT S UNT AND K DDC Well Stat S r - Bbl. O	QUEEZE, ETC. IND MATERIAL USED USE (Prod. or Shutein) hut -In Gas - Oil Ratio TSTM Il Gravity - API (Corr.)
J <sub>1</sub> 1/2 1. Perforation Record ( 114,86-88 114,90-96 (2 11498-05 (2 11507-09 ( 11516-22 (2 3. ate First Production ate of Test 7/7/72 low Tubing Press. 1595.0	Interval, size an (8 shots) 21 shots) 8 shots) 8 shots) 18 shots) Produced Hours Tested 4 Casing Pressue Pkr. Sold, used for fu	nd number) 115214-26 11511-14 Nuction Method (Flow Choke Size re Hour Rate	( 8 sh (12 sh wing, gas l ring Prod'n. Test Pe 	PRODI	DEPTH NOT UCTION ing - Size an OII - Bbl. () Gas - 1	2 3/8 ACID, SHOT, INTERVAL 18 d type pump) Gas - MC   * 852 MCF	FRACTURE, AMOUNC NC	CEMENT S UNT AND K DDC Well Star V - Bbl. O	QUEEZE, ETC. IND MATERIAL USED USE (Prod. or Shutein) hut -In Gas - Oil Ratio TSTM Il Gravity - API (Corr.)
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### INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

#### Southeastern New Mexico

### Northwestern New Mexico

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т.	Anhy	Т.	Canyon	Τ.	Ojo Alamo	т.	Penn. "B"
			Strawn				
В.	Salt	т.	Atoka	Т.	Pictured Cliffs	. <b>T</b> .	Penn. "D"
			Miss				
т.	7 Rivers	Т,	Devonian	Т.	Menefee	. т.	Madison
т.	Queen	Т.	Silurian	т.	Point Lookout	т.	Elbert
			Montoya				
т.	San Andres	Т.	Simpson	т.	Gallup	т.	Ignacio Qtzte
т.	Glorieta	т.	McKee	. Bas	se Greenhorn	Т.	Granite
т.	Paddock	т.	Ellenburger	Т.	Dakota	т.	·
Т.	Blinebry	Т.	Gr. Wash	Т.	Morrison	Т.	·
т.	Tubb	Т.	Granite	Т.	Todilto	т.	
т.	Drinkard	Т.	Delaware Sand	т.	Entrada	Т.	· · · · · · · · · · · · · · · · · · ·
			Bone Springs				
т.	Wolfcamp	Т.		т.	Chinle	. т.	
т.	Penn	Т.	·	Т.	Permian	. <b>T</b> .	
T	Cinco (Bough C)	r		T	Deen (All	m	

## FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	То	Thickness in Feet	, k	prmation
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2050	4100	2050	Sand			.		
100	5200	1100	Lime, Sand, Shale	La	mar Li	me	• *	1828
200	6280	1080	Lime and shale	De	laware	Sand		1975
280	6800	.520	Sand & Shale	Bo	ne Spr	ing		5340
800	7790	990	Lime and shale	ls	t Bone	Sprin	g Sand	6268
790	8120	330	Sand and shale	<b>2</b> r	d Bone	Sorin	g Sand	6803
120	9030	910	Lime and shale	- 3r	d Bone	Sprin	g Sand	8356
030	9550	520	Shale and Lime		lfcamp		, to g	8740
550	10257	707	Shale Sand & Lime	Ci	sco-Ca	nyon		9945
0257	10850	610	Lime and shale	St	rawn		et al service	10257
0850	11050	200	Limestone and shale	At	oka	1	194	10578
1050	111,00	50	Shale & Lime	Mc	drow		$e_{12}^{A}e_{22}^{A}$	11115
1100	11350	° 250°	Lime and shale	Ba	rnett	· .		11820
1350	11420	- 70	Lime and shale					
1420	11875	455	Lime and shale		. •			
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LAND OFFICE								Salt	Mini	ng #M19264
OPERATOR					O. C. C.			V///	////	MMMMMM
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b. TYPE OF COMPLE	OIL WELL	.L. WEL		DRYL	OTHER	Brine Wel	1	B. Farn	n or Lea	se ivame
11.5W 1 WOR			· [_] •	ESVR.						
2. Name of Operator		IL BACK		LSVR.	OTHER			9. Well		Carlsbad
Truckers Wate	er Company							1		
3. Address of Operator	*				······································	·····		10. Fie	ld und F	Pool, or Wildcat
P. O. Box 149	99, Hobbs,	New Mexico	88240	)				W11	dcat	
4. Location of Well								()))	11111	HHHHHH
								()))	HH	HHHHHH
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930	21. 1149	Back I.D.	22.	Many	te Compt., Hov	Drille	als Rota By	y 10018		Cable Tools X
24. Producing Interval(s	), of this completi	on - Top. Botto	m. Name	×			>		125	Was Directional Survey
	<i>"</i>									Made
Salt - 710'	S	alt 930'							No	
26. Type Electric and O					3					Well Cored
ne									No	
28.		CA	SING REC	DRD (Rep	ort all strings	set in well)				
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5 1/2	14#	710'		7 7/	8"	150 sx 0		· · · · · · · · · · · · · · · · · · ·		
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29.		NER RECORD				30.	-5.52	 FUBING		
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├ <u>─</u> ─────			SACKS	EMENT	SCREEN	SIZE	DE	PTH SE	RECORI	D PACKER SET
├ <u>─</u> ─────		BOTTOM	SACKS	EMENT		SIZE	-9	26 1	RECORI	D PACKER SET NO
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SIZE	LI TOP Interval, size and	BOTTOM	SACKS C	CEMENT	32.	SIZE 2 3/8 ACID, SHOT, F	RACTURE,	CEMENT		PACKER SET NO 7 EZE, ETC. MATERIAL USED
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SIZE 31. Perforation Record ( Open hole 710 33. Date First Production 8-31 Date of Test Flow Tubing Press. 34. Disposition of Cas ( 35. List of Attachments	LI TOP Interval, size and D = 930 Produc Circ Hours Tested Casing Pressure Sold, used for fue	BOTTOM number)	pwing, gas resh wa Prod'n. Test P 4- Oll – E	PROD lift, pump <b>iter</b> For eriod	32. DEPTH UCTION Ding - Size and OII - Bbl. Gas - M	SIZE 2 3/8 ACID, SHOT, F INTLRVAL I type pump) Gas - MC CF W	F Wat	PTH SE 261 CEMENT UNT AND UNT AND Well C C or - BEL t Withers		PACKER SET NO _ T EZE, ETC. MATERIAL USED OFF 
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### INSTRUCTIONS

is form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or sepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests coned, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

## Southeastern New Mexico

### Northwestern New Mexico

	There is a state						
Т.	Anhy 240	T.	Canyon	T.	Ojo Alamo	T.	Penn. "B"
т.	Balt 7/5	Т.	Strawn	Т.	Kirtland-Fruitland	T.	Penn. "C"
							Penn. "D"
Т.	Yates	T.	Miss	Т.	Cliff House	Т.	Leadville
т.	7 Rivers	T.	Devonian	Т.:	Menefee	Т.	Madison
Т.	Queen	T.	Silurian	T.	Point Lookout	т.	Elbert
Т.	Grayburg	Т.	Montoya	Т.	Mancos	Т.	McCracken
T.	San Andres	T.	Simpson	T.	Gallup	т.	Ignacio Qtzte
T.	Glorieta	Т.	McKee	Bas	e Greenhorn	T.	Granite
r.	Paddock	Τ.	Ellenburger	Т.	Dakola	т.	
Т.	Blinebry	т.	Gr. Wash	Т.	Morrison	T.	
т.	Tubb	Т.	Granite	T.	Todilto	т.	
т.	Drinkard	T.	Delaware Sand	Т.	Entrada	Т.	
Т.	Abo	Т.	Bone Springs	Т.	Wingate	Т.	
т.	Wolfcamp	Т.		Т.	Chinie	Т.	<u></u>
т	Cisco (Bough C)	Т.		T.	Penn. "A"	T.	

FORMATION RECORD (Attach additional sheets if necessary)

## Thickness Thickness To From Formation From To Formation in Feet in Feet 0 210 210 Red bed and shale 210 240 30 Anhydrite and shale 240 715 475 Anhydrite 715 TD 211 Salt

Aerial Photos

CARISBAD







1942 aerials

Section 36, Range 26E, Township 22S





1946 aerials

Section 36, Range 26E, Township 22S



62/180

1954 AERIAL





1954 aerials

Section 36, Range 26E, Township 22S

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Photos

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CORINNE GRACE SALTY BILL SWD NE/4 NW/4, SEC. 36-T22S-R26E EDDY COUNTY, NEW MEXICO (505) 887-5581 (505) 885-4485 (505) 887-0980

# Battery Area E













# Sump Area

S







# Price, Wayne

From:Price, WayneSent:Tuesday, May 07, 2002 3:10

To: 'Rena Seay'

Subject: RE: Salty Bill Closure

Your 30 day extension requested is hereby approved.

-----Original Message-----From: Rena Seay [mailto:seay04@leaco.net] Sent: Tuesday, May 07, 2002 12:55 PM To: Wayne Price Subject: Salty Bill Closure

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May 7, 2002

Wayne Price NMOCD Environmental Bureau Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: Grace Oil Co., Salty Bill Closure

Mr. Price:

As we discussed, I am being delayed on the drilling and completion of the Salty Bill project. The driller said it will be another ten (10) days before he can start our project. I would like to ask for an extension of thirty (30) days for this project. Our original deadline was May 15, 2002.

Your consideration will be appreciated.

Thanks,

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



# NEW MEXICO ENERGY, MILERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Betty Rivera Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

March 06, 2002

# <u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. 5357 7157</u>

Ms. Corinne B. Grace P.O. Box 1418 3722 National Parks Hwy. Carlsbad, New Mexico 88220

Re: Salty Bills Disposal Facility 711-076 NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Dear Ms. Grace:

The New Mexico Oil Conservation Division (OCD) is in receipt of the closure report dated September 10, 2001 submitted by Eddie W. Seay, Agent for Salty Bill Disposal. In order for the OCD to continue the evaluation of the closure, the following information is required:

- 1. The vertical extent of the salts (i.e. chlorides) were not totally delineated in the vadose zone below the sump, tank battery and pit areas. Please provide this information or propose a method to determine if groundwater has been impacted beneath the site.
- 2. The closure report proposed leaving salt contaminated soil in the vadose zone below the sump, tank battery and pit areas by installing a hydrologic barrier over these areas and back-filling with clean soil to surface grade.
  - Please provide a scaled plot plan map and cross-section views showing the location and depth of all liner(s). Provide information concerning the design, construction, and hydro-geologic properties, etc. of the liner system including the estimated life. Also, provide a plan describing how the liner(s) will be protected in the foreseeable future, e.g. signs, fencing, deed recording etc.

Ms. Grace: March 06, 2002 Page 2

3. Provide a technical demonstration showing how the liner(s) will protect fresh water in the foreseeable future.

# Please submit the above requested information for OCD approval by May 15, 2002.

If you have any questions please do not hesitate to contact me at 505-476-3487 or E-mail WPRICE@state.nm.us.

Sincerely;

Wayne Price-Pet. Engr. Spec.

cc:

OCD Artesia Office Eddie Seay-Agent for Salty Bills Disposal Facility Jon R. Tully-City of Carlsbad

# Price, Wayne

From: Sent: To: Subject: Price, Wayne Saturday, August 25, 2001 2:42 PM 'seay04@leaco.net' Salty Bill

Eddie could you give me an up-date on this project:

Thanks!

June 26, 2001

NMOCD Environmental Bureau ATTN: Wayne Price P.O. Box 6429 1200 S. Saint Francis Drive Santa Fe, NM 87504



RE: Grace Oil, Salty Bill Closure

Mr. Price:

I tried to obtain the service of a rig to drill and sample the Grace site. I was put on a list and don't know when one will be available. In the meantime, I used a backhoe to obtain samples at a depth of 15 ft. at the battery and the sump area, the pit was previously sampled. Find within photos and analytical of this event.

Sample S-1 taken at 5 ft. Sample S-2 taken at 10 ft. Sample S-3 taken at 15 ft. The S samples are from the sump. Sample B-1 taken at 5 ft. Sample B-2 taken at 10 ft.

Sample B-3 taken at 15 ft.

The B samples are from the battery area.

Although the chlorides are a little high in the vadose zone of the sites, I feel that if we could line the bottoms with clay, cover the areas and mound them over, this would prevent further leaching of the chloride and prevent water from ponding on the site. Since the native soil is a sandy clay material and the groundwater is relatively deep, 115 ft., this should prevent any contamination.

Also, find within identification of previous photos and sampling of 03-26-2001.

Please let me know your thoughts on this matter, your help is appreciated.

Sincerely,

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

# **ECD** Environmental, Inc.

Client: Eddie Seay Consulting Project: Salty Bill Project Manager: Eddie Seay Project Number: Date Collected: 6/7/01 Date Received: 6/19/01 Sample Matrix: Soil Extraction Date: 6/20/01

# **Chloride Analysis**

Heal ID	Client ID	Dilution	Cl (mg/l)	Analysis Date
0061901 <b>-</b> 01	S-1	20	1,704	6/20/01
0061901-02	S-2	20	3,621	6/20/01
0061901-03	<b>S-</b> 3	20	4,899	6/20/01
0061901-04	B-1	20	1,917	6/20/01
0061901-05	B-2	20	639	6/20/01
0061901-06	B-3	20	2,556	6/20/01
Extraction Blan	k		ND	6/20/01



Salty Bill Facility Carlshad N.M.



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3/26/200/ BG # ( Background sample 150 H weet of Jainlity Photo #7

# Price, Wayne

From:Stubblefield, MikeSent:Monday, March 26, 2001 5:07 PMTo:Anderson, RogerCc:Price, WayneSubject:SOIL SAMPLES TAKEN AT CORINNE GRACE SALTY BILL SWD

3/26/2001

ROGER,

TODAY I WITNESSED EDDIE SEAY TAKE SOIL SAMPLES AT THE PIT CLOSURE SITE AT THE PLUGGED SALTY BILL SWD.

SOIL SAMPLES WERE TAKEN USING A BACKHOE AND WERE TAKEN AT 5',10', & 14'.

A BACKGROUND SOIL SAMPLE WAS TAKEN AT A DEEP OF 5' ABOUT 100 YDS DUE WEST OF LOCATION IN PASTURE.

SAMPLES WILL BE TESTED FOR CHLORIDES.

SPLIT SAMPLES WERE TAKEN AND WILL BE IN STORAGE.

MIKE S.

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# NEV MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Jennifer A. Salisbury Cabinet Secretary

May 22, 2001

Lori Wrotenbery Director Oil Conservation Division

## CERTIFIED MAIL RETURN RECEIPT NO. 3771 7286

Ms. Corinne B. Grace P.O. Box 1418 3722 National Parks Hwy. Carlsbad, New Mexico 88220

Re: Salty Bills Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Dear Ms. Grace:

The New Mexico Oil Conservation Division (OCD) is in receipt of the closure report dated March 30, 2001 submitted by Eddie W. Seay, Agent for Salty Bill Disposal. In order for the OCD to continue the evaluation of the closure, the following information is required:

- 1. The photographs supplied were not numbered, dated and no documentation was supplied describing each picture. Please provide.
- 2. The vertical extent of the chlorides were not totally delineated in the sump and pit area. Please provide.
- 3. The vertical profile and extent of the chlorides were not determined in the tank battery area. Please provide.
- 4. The closure report did not address the remaining contamination in the vadose below the bottom of the pit area. Please address this issue.

### Please submit the above requested information by June 29, 2001.

If you have any questions please do not hesitate to contact me at 505-476-3487.

Sincerely;

Wann F

Wayne Price-Pet. Engr. Spec.

cc: OCD Artesia Office Eddie Seay-Agent for Salty Bills Disposal Facility


RE: Grace Oil, Salty Bill Closure

Mr. Price:

Find within the analytical, as you requested, for the closure of the Salty Bill facility. Samples were taken in the pit area and witnessed by Mr. Mike Stubblefield of the Artesia office. Samples were taken as listed:

	Frace #1 Frace #2	<ol> <li>ft. below the bottom of the pit</li> <li>ft. below the bottom of the pit</li> </ol>
	Brace #3	10 ft. below the bottom of the pit
Ċ	brace #4	14 ft. below the bottom of the pit, this was as deep as the backhoe could
		reach.
E E		This was a background sample taken at a 5 ft. depth. The location of the sampling was 150 ft. west of the facility.

It appears that the chloride has not migrated much below the 14 ft. level. We have already hauled off the major part of the contamination and what is left, if covered and mounded over, should not become a problem to the groundwater, which is at approximately 115 ft.

At your earliest convenience, please let me know as to your desire so we can finalize the closure of this facility.

1 4

Thank you,

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 03/27/01 Reporting Date: 03/28/01 Project Number: NOT GIVEN Project Name: SALTY BILL CLOSURE Project Location: CARLSBAD, NM Analysis Date: 03/28/01 Sampling Date: 03/26/01 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AH

CI

(mg/Kg)

LAB NUMBER SAMPLE ID

H5740-1	GRACE #1	2271
H5740-2	GRACE #2	1631
H5740-3	GRACE #3	992
H5740-4	GRACE #4	416
H5740-5	BG #1	144
Quality Contro	<u>, , , , , , , , , , , , , , , , , , , </u>	980
True Value QC	>	1000
% Recovery		98.0
<b>Relative Perce</b>	1.0	

METHOD: Standard Methods 4500-CIB NOTE: Analyses performed on 1:4 w:v aqueous extracts.

- 678.

PLEASTABL: Xabity and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	ANALYSIS REQUEST									<u>ر</u> ح	Q119 4D							I entry Eral Consolutions are were an end angle on the artight date 30 days, part due at the rate of 24% per articulture for the artight date and all costs of collections, including advancy's leves.	sult: □ Yes □ No Add'l Phone #:		es - I't samples	Back grown	
40	811170			C	-2	Ì	Zip:			/ SAMPLING	DATE	3/26 11		·· 11:35	V 11.50	1, 12:10	┿┥	e enuce pe 30 days ella incrred by c	Phone stand resource of observes.	REMARKS:	Girace	CHECKED BY: 86 -	(Intuals)
Marland, Hobbs, NM 88240 -2326 Fax (505) 393-2476	5	P.O. #	Company:	Attn:	Address:	C <del>I</del> ty:	State:	Phone #:	Fex #:	PRESERV	DTHER : DTHER : DTHER : DTHER :			>	2	>		tort, staff be limited to the poived by Cardinal within 30 of use, or loss of profits inc	based upon any of the at		E .	Antipan CHEC	
ast 393	- Mar			ZIP: 5242,		r C. Grace				MATRUX	CONTRINERS CONTRINERS CONTRINERS AROUNDWATER VASTEVATER SOIL SOIL SUDE OIL	× ×		V 1 V				n arteirg whother bured in con I waked artees mode in writing I knihotha, bankese interruptio	refree, reporting of whit first such dain is be Received By:		Received By: (Lab Staff)	- C- C-	Cool Induct TOYes CAYes
ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 E (915) 673-7001 Fax (915) 673-7020 (505)	dd.e. Sport Ca	Lean C	U Julimis		La Fax#:	Dose Project Owner:	1	wlelond NM			Sample I.D.	- #	- + -		-	*		nat's hubbly and cheefs exclusive rem nos and any other cause whatsoever s incidented or corresquental damages, i	to the performance of services hare		Date:	cle One)	Bus - Other:
2111 Be	Company Name:	Project Manager: Edd	Address: (.0.)		Phone #: 2-223/	Project #: Sall, Bill	Project Name: Sol	Project Location:	Sampler Name: Pold		Lab I.D.	HST401 Car	4	-3 5.00	if Grace	<ul><li>36</li></ul>		(EABE NOTE: Libibly and Demages. Cards milyaes. Al chains Including three for regign arrives. In no event and Cardinel be fields for	Matter or eccenter aftery out of a relation of the second se	< 10 M	Relinquished By:	Delivered Bv: (Circle One	Sampler - UPS - Bus

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Salty Bill Facility Carlshad N.M.



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## CORINNE GRACE SALTY BILL SWD NE/4 NW/4, SEC. 36-T22S-R26E EDDY COUNTY, NEW MEXICO (505) 887-5581 (505) 885-4485 (505) 887-0980















March 30, 2001

NMOCD Environmental Bureau ATTN: Wayne Price P.O. Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: Grace Oil, Salty Bill Closure

Mr. Price:

Find within the analytical, as you requested, for the closure of the Salty Bill facility. Samples were taken in the pit area and witnessed by Mr. Mike Stubblefield of the Artesia office. Samples were taken as listed:

Grace #1	1 ft. below the bottom of the pit
Grace #2	5 ft. below the bottom of the pit
Grace #3	10 ft. below the bottom of the pit
Grace #4	14 ft. below the bottom of the pit, this was as deep as the backhoe could reach.
BG #1	This was a background sample taken at a 5 ft. depth. The location of the sampling was 150 ft. west of the facility.

It appears that the chloride has not migrated much below the 14 ft. level. We have already hauled off the major part of the contamination and what is left, if covered and mounded over, should not become a problem to the groundwater, which is at approximately 115 ft.

At your earliest convenience, please let me know as to your desire so we can finalize the closure of this facility.

Thank you,

Elli W Lean

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	ANALYSIS REQUEST																	Terms and Conditions: Marved will be dranged one all courts more fran- Terms and Conditions: Marved will be dranged one all courts more fran- 30 days part date at the rule of 20% per arrund term the addina date of headen.		D No Add'f No Add'f	tit samples	- Junyo
CHAIN-OF-CL						- - - -				ή	CP Prig	11:15 )	11:25 /	11:35 /	11:50 0			e client for the clien of the explicable	11	Phone Result: TYes Fax Result: TYes REMARKS: 7	3	86 - 68-
40		łŧ	Company:		Address:	<i>J</i>	e: Zip:	Phone #:		PRESERV. SAMPLING	сір/8А5Е: 5Е / СООL 2		2 2	: \ \	ر ب			and in contrast or text, shall be limited to five encourt pair by the clarit for the is in written and received by Cardinal within 20 days after completions of the appl	Tan a			CHECKED BY: (Initials)
393 East	Uuc I	7 P.O.4	Con	8242 Attn:	Add	Grace Chr.	State:	Pho	Fax #:	MATRIX	RADUNDWATER VASTEWATER OIL OIL LUDDE OIL LUDDE THTER :		<u> </u>	2	<u>)</u>			13 3	14	Received By:	Received By: (Lab Staff)	
	12		Weis	State: NM Zip:	Fax#:	Project Owner: C,		<i>N</i> M			C CONTAINERS		- 7					nady for any data atta and to docard who	in by Can	58		-
Image: NRDINAL LABORATORIES           2111 Beechwood, Abilene, TX 79603           (915) 673-7001 Fax (915) 673-7020		Eddie w	3		2236	Sill C	Salt, Rill	Carls Load	Eddie Say		Sample I.D.	Grace # 1	Grace # 2.	*	GVACL # 4	RC # -	-	l Demages. Cardinal's liability and clouf's contration in these for restructors and any other carsie whitheom	utimal be limble for incidential or connectu g out of or related to the performance o	1 7	2	: (Circle One) - Bus - Other:
¥ ₹	Company Name:	Project Manager:	Address: Lan	CHY: H ddas	Phone #: 2 - 2	Project #: کمال	Project Name:	Project Location:	Sampler Name:	FOR LAB LISE ONLY	Lab I.D.	HOT TON	1.	r	7	Y		LEASE NOTE: Unbilly and Da referee. At chains including that	ervice. In no event shall Cardinal bo liable Millindes or surcessors articing out of or rel	sampler Relinquished:	Relinquished By:	Delivered Bv: (Circle One) Sampler - UPS - Bus - Other:

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 03/27/01 Reporting Date: 03/28/01 Project Number: NOT GIVEN Project Name: SALTY BILL CLOSURE Project Location: CARLSBAD, NM

LAB NUMBER

Analysis Date: 03/28/01 Sampling Date: 03/26/01 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AH

> CI (mg/Kg)

GRACE #1	H5740-1
 GRACE #2	H5740-2
 GRACE #3	H5740-3
 GRACE #4	H5740-4
 BG #1	H5740-5

SAMPLE ID

Quality Control980True Value QC1000% Recovery98.0Relative Percent Difference1.0

METHOD: Standard Methods4500-Cl'BNOTE: Analyses performed on 1:4 w:v aqueous extracts.

<u>5-28-</u>(

PLEASENCE: Vabority and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



## Price, Wayne

From:	Price, Wayne
Sent:	Thursday, March 01, 2001 8:33 AM
То:	'seay04@leaco.net'
Cc:	Stubblefield, Mike
Subject:	FW: Grace Oil Salty Bill Facility

Dear Mr. Seay:

Please notify the Artesia District before sampling.

-----

From:	Price, Wayne
Sent:	Wednesday, February 28, 2001 4:56 PM
То:	
Subject:	Grace Oil Salty Bill Facility

Dear Mr. Seay:

Please advise your client that in order for OCD to issue closure we will need to know the vertical extent of the chlorides on site.

## Price, Wayne

From:	Price, Wayne
Sent:	Wednesday, February 28, 2001 4:56 PM
То:	'seay04@leaco.net'
Subject:	Grace Oil Salty Bill Facility

Dear Mr. Seay:

Please advise your client that in order for OCD to issue closure we will need to know the vertical extent of the chlorides on site.

January 12, 2001

RECEIVED

JAN 18 2001 Environmental Bureau Oil Conservation Division

Wayne Price NMOCD Environmental Bureau P.O. Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: Grace Oil, Salty Bill Facility

Mr. Price:

Find within pit closure report, analytical and photos for the cleanup of the Grace Oil facility. The tanks have all been removed, all the tank bottoms were hauled to CRI, all equipment and storage have been removed, and the battery area, pit and sump have been excavated. We have hauled over 1300 yds. of contaminated soil to CRI. Whenever we get approval to finish covering the excavated areas, we will file the final report.

If you have any questions, please call.

Sincerely,

Eldi W. See

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236 CORINNE GRACE SALTY BILL SWD NE/4 NW/4, SEC. 36-T22S-R26E EDDY COUNTY, NEW MEXICO (505) 887-5581 (505) 885-4485 (505) 887-0980



Lined Pit Before excution

6199 No. 04c. 25/692



dived Pit exception



well before PHA

N -92 ANNAM---. 0018



well Luring P+A



6199 Batter area Before <hc,24>864



Batty over after removal of tanks



Batter area



Sump before Excevation + removal of tanks Ardidia 1993


Somp after removal of tanks, pump + Exception

District I P.O. Box 1980, Hobbs, NM <u>District II</u> P.O. Drawer DD, Ancaia, NM 88211 <u>strict III</u> 1000 Rio Brazos Rd, Azzee, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

> OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

(Revised 3/9/94)

# PIT REMEDIATION AND CLOSURE REPORT

operator: Grace Oil	Telephone: 505.887.5581
Address: P.O Box 1418 Caulsh	nd N.M. 88221
Facility or: <u>Salty</u> Bill Well Name	
Location: Unit or Qtr/Qtr Sec C Se	36 T22 R 26 County Eddy
Pit Type: Separator Dehydrator Of	
Land Type: BLM, State, Fee X	, other city of Carlshad
Pit Location: Pit dimensions: length (Attach diagram) Reference: wellhead	
Footage from reference:	
Direction from reference	e: Degrees East North of
Battery area.	West South
Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water) RECEIVED	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points) O
JAN 18 20 Wellhead Protection Area: (Less than 200 feet from a private Environmental Bu domestic water source, or; less than 1000 feet from all other water sources)	Irean No (0 points)
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) O
	RANKING SCORE (TOTAL POINTS):

· · ·		
Date Remediation St	arted: \$2000	Date Completed: 1/2001
Remediation Method:	Excavation $X$	Approx. cubic yards
(Check all appropriate sections)	Landfarmed $X_{-}$	Insitu Bioremediation
	Other	
		fsite
Remediation Locatio		JKI Ar
name and location of offsite facility)		Environmental Bureau Oil Conservation Direct
General Description	Of Remedial Actic	Dil Conservation Division
Hauled over	1300 uds tran	the combined areas
batter sume	al oit t	the combined areas
	U U	
Ground Water Encoun	tered: No X	Yes Depth
Final Pit: Closure Sampling:	Sample location _	battury battom
(if multiple samples, attach sample results		······································
and diagram of sample locations and depths)	Sample depth	
	Sample date 1/03	
	Sample Results A	
	Benzene(ppm)	
	Total BTEX(p	
	Field headsp	
	TPH 60.5	
Ground Water Sample	Yes No	X (If yes, attach sample results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND		ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE OILIZ/2001		SIL Some
SIGNATURE Edden h		NAME Eddie in Searcy The Agent
SIGNATURE / La La	AND TIT	TLE ACENT

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P.O. Box 1980, Hobbs, NM District II P.O. Drawer DD, Antesia, NM 88211 Strict III 1000 Rio Brazos Rd, Azzec, NM 87410 Santa Fe, New M	New Mexico Sural Resources Department SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO RECEIVENTA FE OFFICE Submit 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO AND 1 COPY TO RECEIVENTA FE OFFICE Submit 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO Submit 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 S (Revised 3/9/94) DISTRICT OFFICE APPROPRIATE DISTRICT OFFICE AND 1 S (Revised 3/9/94) DISTRICT OFFICE APPROPRIATE
operator: <u>Grace</u> 8,1 Address: <u>P. 0 Box 1418 Caulst</u>	Telephone: 505.887.5581
Facility or: Salt, Bill	
Well Name Location: Unit or Qtr/Qtr Sec C Sec	es 36 TA2 R 26 County Edd.
Pit Type: Separator Dehydrator C	
Land Type: BLM, State, Fee $\chi$	, Other city of Carlshad
(Attach diagram) Reference: wellhead Footage from reference:	<u>at battery are</u> e: Degrees East North of
<b>Depth To Ground Water:</b> (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points) <u>()</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 points) No (0 points) <u>O</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
	RANKING SCORE (TOTAL POINTS): _O

· · · •	
Date Remediation St	arted: \$2000 Date Completed: 1/2001
Remediation Method:	Excavation $\chi$ Approx. cubic yards
(Check all appropriate sections)	Landfarmed $\chi$ Insitu Bioremediation
	Other
	RECEIVED
Remediation Locatio	
name and location of offsite facility)	Fr. 10 20-
	Of Remedial Action:
	1300 unde the combined area
hatte suma	1300 yds from the combined areas
- Alactic	4.1
Ground Water Encoun	tered: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location <u>Pit bathman</u>
attach sample results and diagram of sample	Sample depth
locations and depths)	Sample date 103 2001 Sample time
	Sample Results - Attach
	Benzene(ppm) .oo Z
	Total BTEX(ppm) .012
	Field headspace(ppm)
	TPH 91
Ground Water Sample	: Yes No X (If yes, attach sample results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND	AT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST BELIEF
DATE 1/12/2001	EN. 1.5
SIGNATURE Edit W	Las PRINTED NAME Eddie & Sean AND TITLE Agent

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	arted: $\frac{2}{2000}$ Date Completed: $\frac{1}{2001}$	
Remediation Method: (Check all appropriate	Excavation X Approx. cubic yards	
sections)	Landfarmed $\underline{X}$ Insitu Bioremediation	
	Other	
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)		
General Description	Of Remedial Action:	
Haules over	1300 undo from the combined and	
batter pit	1300 ydo from the combined and and sump to CRI	
	U	
Ground Water Encoun	tered: No X Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location <u>Pit sidewalk</u>	
	Sample depth	
locations and depths)	Sample date 13 2001 Sample time	
	Sample Results Attach	
	Benzene(ppm) <u>. 002</u>	
	Total BTEX(ppm) .012	
	Field headspace(ppm)	
	TPH	
Ground Water Sample	: Yes No $X$ (If yes, attach sample results)	
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND	AT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST D BELIEF	
DATE ILLZ 2001	PRINTED NAME Eddie W Seay	

District I State of New Mexico SUBMIT 1 COPY TO Energy, Minerals and Natural Resources Department P.O. Box 1980, Hobbs, NM APPROPRIATE District II DISTRICT OFFICE P.O. Drawer DD, Artesia, NM 88211 AND 1 COPY TO OIL CONSERVATION DIVISION strict III SANTA FE OFFICE P.O. Box 2088 1000 Rio Brazos Rd, Aztec, NM 87410 Santa Fe, New Mexico 87504-2088 (Revised 3/9/94) PIT REMEDIATION AND CLOSURE REPORT operator: Grace 8.1 Telephone: 505.887.558 Address: P.O. Box 1418 Caulshad N.M. 88221 Facility or: Salt, Bill Well Name Location: Unit or Qtr/Qtr Sec C Sec 36 T 22 R 26 County Edd 4 Pit Type: Separator\_\_\_\_ Dehydrator\_\_\_\_ Other\_\_\_\_ Land Type: BLM\_\_\_, State \_\_\_, Fee  $\chi$ , Other <u>cut</u> of Coulsho Pit Location: Pit dimensions: length 12\_\_\_, width 15\_\_\_, depth 4\_\_\_\_ (Attach diagram) Reference: wellhead \_\_\_\_, other \_\_\_\_\_ Footage from reference: \_\_\_\_\_ Direction from reference: \_\_\_\_ Degrees \_\_\_ East North \_\_\_\_ of West South Sump - on location Depth To Ground Water: Less than 50 feet (20 points) 50 feet to 99 feet (Vertical distance from (10 points) Greater than 100 feet (0 Points) contaminants to seasonal high water elevation of ground water) Wellhead Protection Area: Yes (20 points) (Less than 200 feet from a private No (0 points) 🔿 domestic water source, or; less than 1000 feet from all other water sources) Distance To Surface Water: Less than 200 feet (20 points) (Horizontal distance to perennial 200 feet to 1000 feet (10 points) lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 🕖 irrigation canals and ditches) RANKING SCORE (TOTAL POINTS):  $\bigcirc$ 

· ·	
Date Remediation St	arted: <u>8/2000</u> Date Completed: <u>1/200/</u>
Remediation Method:	Excavation $\chi$ Approx. cubic yards
(Check all appropriate sections)	Landfarmed X Insitu Bioremediation
	Other
<b>Remediation Locatio</b> (ie. landfarmed onsite, name and location of offsite facility)	
	Of Remedial Action:
Hauled over	1300 yds from the combined areas
balting sump	1300 yds from the combined areas
J 1	Υ
Ground Water Encoun	tered: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location <u>Sump</u> bottom composite
attach sample results and diagram of sample	Sample depth
locations and depths)	Sample date 103/2001 Sample time
	Sample Results Attached
	Benzene(ppm) , 00 2
	Total BTEX(ppm) .0/2
	Field headspace(ppm)
	TPH <u>59.3</u>
Ground Water Sample	: Yes No $\chi$ (If yes, attach sample results)
	NAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST
OF MY KNOWLEDGE AND	
OF MY KNOWLEDGE AND DATE المعد إلاد إ	

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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 01/03/01 Reporting Date: 01/05/01 Project Number: GRACE FACILITY Project Name: SALTY BILL FACILITY Project Location: CARLSBAD, NM Sampling Date: 01/03/01 Sample Type: SOIL Sample Condition: COOL, INTACT Sample Received By: AH Analyzed By: JA

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				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DAT	E	01/05/01	01/05/01	01/05/01	01/05/01
H5491-1	#1 SIDEWALK PIT	< 0.002	<0.002	<0.002	< 0.006
H5491-2	#2 BOTTOM PIT	< 0.002	< 0.002	< 0.002	< 0.006
H5491-3	#3 TANK BATTERY	< 0.002	<0.002	<0.002	< 0.006
H5491-4	#4 SUMP	<0.002	<0.002	<0.002	<0.006
Quality Control		0.094	0.104	0.090	0.283
True Value QC	· · · · · · · · · · · · · · · · · · ·	0.100	0.100	0.100	0.300
% Accuracy		94	104	90	94
Relative Percent	t Difference	7.1	1.4	0.8	1.3
	CIAL 0.40 0000 5000 0	In		· · · · · · · · · · · · · · · · · · ·	L

METHOD: EPA SW 846-8020, 5030, Gas Chromatography

-501

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

H5491SHOBBSBTEXONLY





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE W. SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 01/03/01 Reporting Date: 01/04/01 Project Owner: C. GRACE-GRACE FACILITY Project Name: SALTY BILL FACILITY Project Location: CARLSBAD, NM Sampling Date: 01/03/01 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

		GRO	DRO
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)
ANALYSIS DA	Г <b>Е</b> :	01/03/01	01/03/01
H5491-1	#1-SIDEWALLS-PIT	<50	110
H5491-2	#2-BOTTOM-PIT	<50	91.0
H5491-3	#3-TANK BATTERY	<50	60.5
H5491-4	#4-SUMP	<50	59.3
Quality Control		891	957
True Value QC		1000	1000
% Recovery		89.1	95.7
Relative Percer	nt Difference	3.5	5.3

METHOD: SW-846 8015 M

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1/4/01

Date

PLEASENDER A MARK and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. New Mexico Office of the State Engineer

New Mexico Office of the State Engineer Well Reports and Downloads
Township: 225 Range: 26E Sections: 36
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County: Basin: Number: Suffix:
Owner Name (First) (Last) CNon-Domestic CDomestic All
Well Data Report Avg Depth to Water Report
Water Column Report       Clear Form     WATERS Menu
AVERAGE DEPTH OF WATER REPORT 01/12/2001

(Depth Water in Feet) Bsn Tws Rng Sec Zone X Y Wells Min Max Avg C 223 26E 36 1 115 115

Record Count: 1

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### Price, Wayne

From:	Price, Wayne
Sent:	Thursday, October 12, 2000 10:30 AM
To:	'Eddie Seay'
Cc:	Gum, Tim
Subject:	RE: Salty Bill SWD, Grace Oil

Approved with following Condition:

All OCD forms must be submitted to the Artesia District for approval and Plugging must be approved & witnessed by OCD District office.

From:	Eddie Seay[SMTP:seay04@leaco.net]
Sent:	Thursday, October 12, 2000 7:18 AM
To:	Price, Wayne
Subject:	Salty Bill ŚWD, Grace Oil

October 12, 2000

ATTN: Wayne Price NMOCD Environmental Bureau 2040 South Pacheco Santa Fe, NM 87505

RE: Salty Bill SWD, Grace Oil

Dear Mr. Price:

As per our conversation concerning an extension to complete phase I of the SWD closure, we have removed all tanks and pumps and are awaiting the plugging of the well. The plugging contractor, who is doing state plugging for the OCD, has been delayed and we need an additional 30 day extension to finalize this phase before starting any soil remediation. If you could extend our deadline to November 15 it would be appreciated. Looking forward to hearing from you.

Thank you,

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

### Price, Wayne

From:	Price, Wayne
Sent:	Wednesday, August 30, 2000 8:17 AM
To:	'Rena Seay'
Subject:	RE: Salty Bill SWD

### Approved!

From:	Rena Seay[SMTP:seay04@leaco.net]
Reply To:	Rena Seav
Sent:	Tuesday, August 29, 2000 9:24 AM
To:	Price, Wayne
Subject:	Salty Bill ŚWD

August 28, 2000

NMOCD Environmental Bureau ATTN: Wayne Price 2040 South Pacheco Santa Fe, NM 87505

RE: Salty Bill SWD, Grace Oil

Dear Mr. Price:

As per our conversation, an extension of October 15, 2000, was asked for to finalize the first phase of the tank removals and the plugging of the disposal well. The tanks have been removed and we are waiting on the plugging company to move into the Carlsbad area and begin. The extension will be appreciated.

Thanks,

Eddie W. Seay, Agent

# Price, Wayne

From:	null@leaco.net[SMTP:null@leaco.net]
Sent:	Wednesday, August 30, 2000 8:12 AM
To:	Price, Wayne
Subject:	Ack: "RE: Salty Bill SWD"

### Your message headed:

RE: Salty Bill SWD.

has been delivered to seay04@leaco.net.

This receipt does not guarantee that the mail has been read.



# NEW **©**EXICO ENERGY, M**®**NERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Jennifer A. Salisbury Cabinet Secretary

June 1, 2000

Lori Wrotenbery Director Oil Conservation Division

### CERTIFIED MAIL RETURN RECEIPT NO. 5051 5697

Mr. Joel M. Carson Losee, Carson, Haas, & Carroll, P.A. 311 West Quay Avenue Artesia, NM 88211-1720

Re: Corinne B. Grace Salty Bill Water Disposal Facility NE/4 NW/4 of Section 36-Ts22s-R26e Eddy County, New Mexico

### Dear Mr. Carson:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Salty Bill Water Disposal Facility's (SBWDF) closure plan dated March 02, 2000 submitted by Eddie W. Seay, Agent for Salty Bill Water Disposal Facility.

### The plan is hereby approved with the following additional conditions:

- 1. Items 1. through 5. "waste disposal, equipment removal and well plugging" of the closure plan shall be completed by September 01, 2000.
- 2. Item 6. "excavation and clean-up" activities shall start no later than September 30, 2000 and be completed by November 30, 2000.
  - A. SBWDF will notify the OCD Santa Fe office and the OCD District office at least 72 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples during OCD's normal business hours.
  - B. SBWDF shall also receive written approval before covering any excavated area.

Please be advised that NMOCD approval of this plan does not relieve SBWDF of liability should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve SBWDF of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec. Environmental Bureau

cc: OCD Artesia Office





Environmental Bureau Oil Conservation Division



NMOCD Environmental Bureau ATTN: Martyne J. Kieling 2040 South Pacheco Santa Fe, NM 87505

RE: Grace, Salty Bill Disposal

Dear Mrs. Kieling:

As per my letter dated 2-15-00, enclosed is the closure plan for the Salty Bill SWD facility. After receiving approval for closure, Grace will submit bids for the various closure activities. I am in hopes that the OCD will worth with Grace and allow some time to perform closure. The expense for closing this facility will be quite large and may take some time to appropriate funds. You consideration and time in this matter is greatly appreciated.

If you have any questions or need additional information, please call.

Sincerely,

Idn W Sea

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

March 2, 2000

### **CLOSURE PLAN FOR SALTY BILL SWD**

- 1) Shut down operations Notify truckers and operators of the closure.
- 2) Submit plug and abandon report for approval to OCD, C-103.
- 3) Clean out water and BS from storage tank and haul to an OCD approved facility.
- 4) Remove and sell tanks, pumps and associated equipment.
- 5) Plug and abandon well after OCD approval.
- 6) Excavate contaminated soils as per NOV and after equipment is removed, as per OCD rules.
  - a) pit area
  - b) below grade sump
  - c) tank area
  - d) off-loading area
- 7) File final closure report.

February 15, 2000



Oil Conservation Division, Environmental Bureau ATTN: Mrs. Martyne J. Kieling 2040 S. Pacheco St. Santa Fe, NM 87505

RE: Grace, Salty Bill Disposal

Dear Mrs. Kieling:

As per our discussion, Mrs. Grace has decided to close the facility. I need some time to prepare a closure plan for the facility. I have been in contact with David Catanach about the disposal well and he did not know of any violations with it. I do understand, and so do the Grace people, that the cleanup will encompass the NOV that are pending. I will have a plan in a few days, please allow me some time to get costs and figures together for abandonment.

If you have any questions or need additional information, please call. Thank you for your consideration.

Sincerely,

Pulie w

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

January 24, 2000

### <u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. Z-559-572-262</u>

Mr. Joel M. Carson Losee, Carson, Haas, & Carroll, P.A. 311 West Quay Avenue Artesia, NM 88211-1720

Re: Corinne B. Grace Salty Bills Water Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Mr. Carson:

The New Mexico Oil Conservation Division has received your letter dated December 27, 1999 requesting an extension of time from the January 5, 2000 deadline to February 19, 2000 for the submittal of a site assessment plan for the above referenced location. The extension request is hearby granted.

If you have any questions, please contact Martyne Kieling at (505) 827-7153.

Sincerely,

Roger C. Anderson Environmental Bureau Chief

xc: Artesia OCD Office
 Hobbs OCD Office
 Ms. Corinne B. Grace, P.O. Box 1418, 3722 National Parks Hwy., Carlsbad, N.M. 88220
 Eddie Seay, Peak Consulting

LAW OFFICES

### LOSEE, CARSON, HAAS & CARROLL, P. A.

ERNEST L. CARROLL JOEL M. CARSON JAMES E HAAS R. TRACY SPROULS, LL. M. (TAX) OF COUNSEL

A. J. LOSEE

311 WEST QUAY AVENUE P. O. BOX 1720 ARTESIA, NEW MEXICO 88211-1720 PHONE (505) 746-3505 FAX (505) 746-6316

December 27, 1999

ROSWELL OFFICE 400 N. PENN.,SUITE 870 ROSWELL, NM 88201 PHONE (505) 623-5154

PLEASE DIRECT ALL CORRESPONDENCE TO OUR ARTESIA OFFICE

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DEC 2 9 1999

Mr. Roger C. Anderson Environmental Bureau Chief Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87506

### Re: NOV, Corinne B. Grace

Dear Mr. Anderson:

Corinne Grace has employed Eddie Seay as a consultant in connection with the above described NOV. Mr. Seay, Ms. Grace's superintendent, and I have gone to the site, reviewed the NOV, and had a preliminary discussion regarding alternatives. Mr. Seay has been instructed to prepare a plan, as well as cost estimates, discussing the feasibility of making the necessary changes and the costs of remediation to meet the requirements of the OCD. In the alternative, Mr. Seay has been instructed to determine the feasibility of closing the site and remediating any contamination caused by Grace.

Tests have shown the presence of contaminants not associated with the disposal of produced water. Mr. Seay has been asked to quantify any contamination which could have been caused by third parties.

Last, I have asked Mr. Seay to contact Martyne Kieling to let him know that he is now on board and will be working on this project.

We would request an extension of 45 days to accomplish the above tasks and present an acceptable site assessment.

Yours truly,

LOSEE, CARSON, HAAS & CARROLL, P.A. Manon Joel M. Carson

JMC:bjk

xc: Ms. Corinne Grace Mr. Gary Davis Mr. Eddie Seay



# LOSEE, CARSON, HAAS & CARROLL, P. A.

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06.23040

NWN-

311 WEST QUAY AVENUE

P. O. BOX 1720

ARTESIA, NEW MEXICO 88211-1720

Mr. Roger C. Anderson Environmental Bureau Chief Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87506

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Salty Bill Water Disposal Cleanup 1998 Analytical Reports NMOCD Required Cleanup Levels: Benzene 10 ppm, BTEX 50 ppm, TPH 100 ppm. NMOCD Soil Investigation Guidance Levels: Metals and Chloride at WQCC levels.

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		Guidance Leve				1010101	
Date	Sample	Sample	Sample	Benzene	BTEX	Diesel	Gasoline
Sampled	Number	Location	Depth	10 ppm	50 ppm	range org.	range org.
05/14/98	pump sump # 1	pump sump	4' bgs	<rdl< td=""><td>21</td><td>4,500</td><td><rdl< td=""></rdl<></td></rdl<>	21	4,500	<rdl< td=""></rdl<>
05/14/98	pump sump # 2	pump sump	4' bgs	<rdl< td=""><td><rdl< td=""><td>300</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>300</td><td><rdl< td=""></rdl<></td></rdl<>	300	<rdl< td=""></rdl<>
	pump sump # 3	pump sump	4' bgs	<rdl< td=""><td><rdl< td=""><td>110</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>110</td><td><rdl< td=""></rdl<></td></rdl<>	110	<rdl< td=""></rdl<>
	pump sump # 4	pump sump	4' bgs	<rdl< td=""><td><rdl< td=""><td>85</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>85</td><td><rdl< td=""></rdl<></td></rdl<>	85	<rdl< td=""></rdl<>
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05/14/98	T-1	valve sump	18" bgs	<rdl< td=""><td>18</td><td>960</td><td><rdl< td=""></rdl<></td></rdl<>	18	960	<rdl< td=""></rdl<>
05/14/98	T-2	valve sump	18" bgs	<rdl< td=""><td>191</td><td>2,800</td><td>13</td></rdl<>	191	2,800	13
05/14/98	T-3	valve sump	18" bgs	<rdl< td=""><td><rdl< td=""><td>320</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>320</td><td><rdl< td=""></rdl<></td></rdl<>	320	<rdl< td=""></rdl<>
05/14/98	T-4	oil tanks	18" bgs	<rdl< td=""><td>34</td><td>320</td><td><rdl< td=""></rdl<></td></rdl<>	34	320	<rdl< td=""></rdl<>
05/14/98	T-5	oil tanks	18" bgs	<rdl< td=""><td><rdl< td=""><td>270</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>270</td><td><rdl< td=""></rdl<></td></rdl<>	270	<rdl< td=""></rdl<>
05/14/98	T-6	oil tanks	18" bgs	<rdl< td=""><td><rdl< td=""><td>690</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>690</td><td><rdl< td=""></rdl<></td></rdl<>	690	<rdl< td=""></rdl<>
05/14/98	T-7	oil tanks	18" bgs	<rdl< td=""><td></td><td>1,500</td><td><rdl< td=""></rdl<></td></rdl<>		1,500	<rdl< td=""></rdl<>
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05/14/98	Method blank			<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
05/07/98	1-CG	overflow pit	6' bgs	<rdl< td=""><td><rdl< td=""><td>2,100</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>2,100</td><td><rdl< td=""></rdl<></td></rdl<>	2,100	<rdl< td=""></rdl<>
05/07/98	2-CG	overflow pit	6' bgs	<rdl< td=""><td><rdl< td=""><td>150</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>150</td><td><rdl< td=""></rdl<></td></rdl<>	150	<rdl< td=""></rdl<>
05/07/98	3-CG	overflow pit	6' bgs	<rdl< td=""><td><rdl< td=""><td>120</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>120</td><td><rdl< td=""></rdl<></td></rdl<>	120	<rdl< td=""></rdl<>
05/07/98	4-CG	overflow pit		<rdl< td=""><td><rdl< td=""><td>200</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>200</td><td><rdl< td=""></rdl<></td></rdl<>	200	<rdl< td=""></rdl<>
05/07/98	5-CG	overflow pit	6' bgs	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
05/07/98	6-CG	overflow pit	6' bgs	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
05/07/98	7-CG	overflow pit	6' bgs	<rdl< td=""><td><rdl< td=""><td>37</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>37</td><td><rdl< td=""></rdl<></td></rdl<>	37	<rdl< td=""></rdl<>
05/07/98	8-CG	overflow pit		<rdl< td=""><td><rdl< td=""><td>1,400</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1,400</td><td><rdl< td=""></rdl<></td></rdl<>	1,400	<rdl< td=""></rdl<>
05/07/98	9-CG	overflow pit		<rdl< td=""><td><rdl< td=""><td>940</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>940</td><td><rdl< td=""></rdl<></td></rdl<>	940	<rdl< td=""></rdl<>
05/07/98	10-CG	overflow pit		<rdl< td=""><td><rdl< td=""><td>720</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>720</td><td><rdl< td=""></rdl<></td></rdl<>	720	<rdl< td=""></rdl<>
05/07/98	11-CG	overflow pit		<rdl< td=""><td><rdl< td=""><td>34</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>34</td><td><rdl< td=""></rdl<></td></rdl<>	34	<rdl< td=""></rdl<>
05/07/98	12-CG	overflow pit		<rdl< td=""><td><rdl< td=""><td>360</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>360</td><td><rdl< td=""></rdl<></td></rdl<>	360	<rdl< td=""></rdl<>
05/07/98	13-CG	p. water tanks	12" bgs	<rdl< td=""><td>5.9</td><td>350</td><td><rdl< td=""></rdl<></td></rdl<>	5.9	350	<rdl< td=""></rdl<>
05/07/98		p. water tanks	12" bgs	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
05/07/98	15-CG	p. water tanks	12" bgs	<rdl< td=""><td>60</td><td></td><td><rdl< td=""></rdl<></td></rdl<>	60		<rdl< td=""></rdl<>
05/07/98		p. water tanks	12" bgs	<rdl< td=""><td><rdl< td=""><td>780</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>780</td><td><rdl< td=""></rdl<></td></rdl<>	780	<rdl< td=""></rdl<>
05/07/98	17-CG	p. water tanks	12" bgs	<rdl< td=""><td><rdl< td=""><td></td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td></td><td><rdl< td=""></rdl<></td></rdl<>		<rdl< td=""></rdl<>
05/07/98	18-CG	p. water tanks	12" bgs	<rdl< td=""><td>43</td><td>860</td><td><rdl< td=""></rdl<></td></rdl<>	43	860	<rdl< td=""></rdl<>
05/07/98	19-CG	p. water tanks	12" bgs	<rdl< td=""><td><rdl< td=""><td>310</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>310</td><td><rdl< td=""></rdl<></td></rdl<>	310	<rdl< td=""></rdl<>
05/07/98	20-CG	p. water tanks	12" bgs	<rdl< td=""><td><rdl< td=""><td></td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td></td><td><rdl< td=""></rdl<></td></rdl<>		<rdl< td=""></rdl<>
05/07/98	21-CG	p. water tanks	12" bgs	<rdl< td=""><td><rdl< td=""><td>1000</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1000</td><td><rdl< td=""></rdl<></td></rdl<>	1000	<rdl< td=""></rdl<>
05/07/98	22-CG	p. water tanks	12" bgs	<rdl< td=""><td><rdl< td=""><td>560</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>560</td><td><rdl< td=""></rdl<></td></rdl<>	560	<rdl< td=""></rdl<>
05/07/98	Method blank			<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>

NOTE: Soil sample concentrations in Bold are above site standards or above WQCC standards.

page 1

Salty Bill Water Disposal Cleanup 1998 Analytical Reports

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page 2

NMOCD Required	Cleanup Lev	els: Benzene	10 ppm,	BTEX 50 ppm, TPH 100 ppm.
NMOCD Soil Inves	stigation Guid	lance Levels	Metals	and Chloride at WQCC levels.

NMOCD SC					nd Chlorid			
Mercury	Arsenic	Barium		Chromium		Selenium	Silver	Chloride
0.002 ppm	0.1 ppm	1.0 ppm	0.01 ppm	0.05 ppm	0.05 ppm	0.05 ppm	0.05 ppm	250 ppm
<rdl< td=""><td>1.1</td><td>3.0</td><td><rdl< td=""><td><rdl< td=""><td>1.1</td><td><rdl< td=""><td><rdl< td=""><td>10,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1.1	3.0	<rdl< td=""><td><rdl< td=""><td>1.1</td><td><rdl< td=""><td><rdl< td=""><td>10,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1.1</td><td><rdl< td=""><td><rdl< td=""><td>10,000</td></rdl<></td></rdl<></td></rdl<>	1.1	<rdl< td=""><td><rdl< td=""><td>10,000</td></rdl<></td></rdl<>	<rdl< td=""><td>10,000</td></rdl<>	10,000
<rdl< td=""><td>1.8</td><td>1.3</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,800</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1.8	1.3	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,800</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,800</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,800</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>8,800</td></rdl<></td></rdl<>	<rdl< td=""><td>8,800</td></rdl<>	8,800
<rdl< td=""><td>2.1</td><td>1.5</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,500</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	2.1	1.5	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,500</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,500</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,500</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>8,500</td></rdl<></td></rdl<>	<rdl< td=""><td>8,500</td></rdl<>	8,500
<rdl< td=""><td>2.1</td><td>1.3</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>9,100</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	2.1	1.3	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>9,100</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>9,100</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>9,100</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>9,100</td></rdl<></td></rdl<>	<rdl< td=""><td>9,100</td></rdl<>	9,100
<rdl< td=""><td>2.0</td><td>1.6</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>9,100</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	2.0	1.6	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>9,100</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>9,100</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>9,100</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>9,100</td></rdl<></td></rdl<>	<rdl< td=""><td>9,100</td></rdl<>	9,100
<rdl< td=""><td>1.1</td><td>1.6</td><td><rdl< td=""><td><rdl< td=""><td>1.2</td><td><rdl< td=""><td><rdl< td=""><td>5,100</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1.1	1.6	<rdl< td=""><td><rdl< td=""><td>1.2</td><td><rdl< td=""><td><rdl< td=""><td>5,100</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1.2</td><td><rdl< td=""><td><rdl< td=""><td>5,100</td></rdl<></td></rdl<></td></rdl<>	1.2	<rdl< td=""><td><rdl< td=""><td>5,100</td></rdl<></td></rdl<>	<rdl< td=""><td>5,100</td></rdl<>	5,100
<rdl< td=""><td>2.0</td><td>1.8</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	2.0	1.8	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<>	<rdl< td=""><td>16,000</td></rdl<>	16,000
<rdl< td=""><td><rdl< td=""><td>1.7</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rp>RDL</rp></td><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1.7</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rp>RDL</rp></td><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1.7	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rp>RDL</rp></td><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rp>RDL</rp></td><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rp>RDL</rp></td><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<>	<rp>RDL</rp>	<rdl< td=""><td>16,000</td></rdl<>	16,000
<rdl< td=""><td>2.2</td><td>2.0</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>15,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	2.2	2.0	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>15,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>15,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>15,000</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>15,000</td></rdl<></td></rdl<>	<rdl< td=""><td>15,000</td></rdl<>	15,000
<rdl< td=""><td>1.2</td><td>1.6</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>12,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1.2	1.6	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>12,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>12,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>12,000</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>12,000</td></rdl<></td></rdl<>	<rdl< td=""><td>12,000</td></rdl<>	12,000
<rdl< td=""><td>1.9</td><td>1.5</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>12,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1.9	1.5	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>12,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>12,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>12,000</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>12,000</td></rdl<></td></rdl<>	<rdl< td=""><td>12,000</td></rdl<>	12,000
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NOTE: Soil sample concentrations in **Bold** are above site standards or above WQCC standards.

1 11

## Salty Bill Salt Water Disposal Cleanup 1998 Analytical Reports NMOCD Required Cleanup Levels: Benzene 10 ppm, BTEX 50 ppm,

page 1

F2 1			CC levels	A COLORED TO A COL	20 Ppm			Ph 4	
Date	Sample	Benzene	BTEX	Diesel	Gasoline	Mercury	Arsenic	Barium	
Sampled	Location	-10ppm	SOPPM	range org.	range org.	0.002 ppm	0.1ppm	l.ppm	in GW.
5/14/98	pump sump # 1 ч	<rdl< td=""><td>21</td><td>4,500</td><td><rdl< td=""><td><rdl< td=""><td>1.1</td><td>3.0</td><td>)</td></rdl<></td></rdl<></td></rdl<>	21	4,500	<rdl< td=""><td><rdl< td=""><td>1.1</td><td>3.0</td><td>)</td></rdl<></td></rdl<>	<rdl< td=""><td>1.1</td><td>3.0</td><td>)</td></rdl<>	1.1	3.0	)
5/14/98	pump sump # 2 4	<rdl< td=""><td><rdl< td=""><td>300</td><td><rdl< td=""><td><rdl< td=""><td>1.8</td><td>1.3</td><td>/</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>300</td><td><rdl< td=""><td><rdl< td=""><td>1.8</td><td>1.3</td><td>/</td></rdl<></td></rdl<></td></rdl<>	300	<rdl< td=""><td><rdl< td=""><td>1.8</td><td>1.3</td><td>/</td></rdl<></td></rdl<>	<rdl< td=""><td>1.8</td><td>1.3</td><td>/</td></rdl<>	1.8	1.3	/
5/14/98	pump sump # 3 4	<rdl< td=""><td><rdl< td=""><td>110</td><td><rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.5</td><td>Sompum</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>110</td><td><rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.5</td><td>Sompum</td></rdl<></td></rdl<></td></rdl<>	110	<rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.5</td><td>Sompum</td></rdl<></td></rdl<>	<rdl< td=""><td>2.1</td><td>1.5</td><td>Sompum</td></rdl<>	2.1	1.5	Sompum
5/14/98	pump sump # 4 🍤	<rdl< td=""><td><rdl< td=""><td>85</td><td><rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.3</td><td>) . 4</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>85</td><td><rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.3</td><td>) . 4</td></rdl<></td></rdl<></td></rdl<>	85	<rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.3</td><td>) . 4</td></rdl<></td></rdl<>	<rdl< td=""><td>2.1</td><td>1.3</td><td>) . 4</td></rdl<>	2.1	1.3	) . 4
5/14/98	T-1 18" Sump	<rdl< td=""><td>18</td><td>960</td><td><rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.6</td><td>2</td></rdl<></td></rdl<></td></rdl<>	18	960	<rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.6</td><td>2</td></rdl<></td></rdl<>	<rdl< td=""><td>2.0</td><td>1.6</td><td>2</td></rdl<>	2.0	1.6	2
5/14/98	T-2 16 5000	<rdl< td=""><td>191</td><td>2,800</td><td>13</td><td><rdl< td=""><td>1.1</td><td>1.6</td><td>\$ 18 Som</td></rdl<></td></rdl<>	191	2,800	13	<rdl< td=""><td>1.1</td><td>1.6</td><td>\$ 18 Som</td></rdl<>	1.1	1.6	\$ 18 Som
5/14/98	T-3 18" Som 0	<rdl< td=""><td><rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.8</td><td>)</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.8</td><td>)</td></rdl<></td></rdl<></td></rdl<>		<rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.8</td><td>)</td></rdl<></td></rdl<>	<rdl< td=""><td>2.0</td><td>1.8</td><td>)</td></rdl<>	2.0	1.8	)
5/14/98		<rdl< td=""><td>34</td><td>320</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td><td>7</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	34	320	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td><td>7</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.7</td><td>7</td></rdl<></td></rdl<>	<rdl< td=""><td>1.7</td><td>7</td></rdl<>	1.7	7
5/14/98	T-5 151' end Tinks		<rdl< td=""><td>270</td><td><rdl< td=""><td><rdl< td=""><td>2.2</td><td>2.0</td><td>(</td></rdl<></td></rdl<></td></rdl<>	270	<rdl< td=""><td><rdl< td=""><td>2.2</td><td>2.0</td><td>(</td></rdl<></td></rdl<>	<rdl< td=""><td>2.2</td><td>2.0</td><td>(</td></rdl<>	2.2	2.0	(
5/14/98			<rdl< td=""><td>690</td><td><rdl< td=""><td><rdl< td=""><td>1.2</td><td>1.6</td><td>218 oil</td></rdl<></td></rdl<></td></rdl<>	690	<rdl< td=""><td><rdl< td=""><td>1.2</td><td>1.6</td><td>218 oil</td></rdl<></td></rdl<>	<rdl< td=""><td>1.2</td><td>1.6</td><td>218 oil</td></rdl<>	1.2	1.6	218 oil
5/14/98	T-7 18" oilten	<rdl< td=""><td></td><td>1,500</td><td><rdl< td=""><td><rdl< td=""><td>1.9</td><td>1.5</td><td>) Tank</td></rdl<></td></rdl<></td></rdl<>		1,500	<rdl< td=""><td><rdl< td=""><td>1.9</td><td>1.5</td><td>) Tank</td></rdl<></td></rdl<>	<rdl< td=""><td>1.9</td><td>1.5</td><td>) Tank</td></rdl<>	1.9	1.5	) Tank
5/14/98	Method blank	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<>	<rdl< td=""><td></td></rdl<>	
5/7/98	1-CG 6 Pit	<rdl< td=""><td><rdl< td=""><td>2,100</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>&gt;</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>2,100</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>&gt;</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	2,100	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>&gt;</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>&gt;</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>&gt;</td></rdl<></td></rdl<>	<rdl< td=""><td>&gt;</td></rdl<>	>
5/7/98		<rdl< td=""><td><rdl< td=""><td>and the second se</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>SG'Pi</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>and the second se</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>SG'Pi</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	and the second se	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>SG'Pi</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>SG'Pi</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>SG'Pi</td></rdl<></td></rdl<>	<rdl< td=""><td>SG'Pi</td></rdl<>	SG'Pi
5/7/98		<rdl< td=""><td><rdl< td=""><td>and the second se</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>(</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>and the second se</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>(</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	and the second se	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>(</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>(</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>(</td></rdl<></td></rdl<>	<rdl< td=""><td>(</td></rdl<>	(
5/7/98	and a second	<rdl< td=""><td><rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>-</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>-</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>		<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>-</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>-</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>-</td></rdl<></td></rdl<>	<rdl< td=""><td>-</td></rdl<>	-
5/7/98		<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>7</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>7</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>7</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>7</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>7</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>7</td></rdl<></td></rdl<>	<rdl< td=""><td>7</td></rdl<>	7
5/7/98		<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td><td>S6 Pit</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td><td>S6 Pit</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td><td>S6 Pit</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td><td>S6 Pit</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.7</td><td>S6 Pit</td></rdl<></td></rdl<>	<rdl< td=""><td>1.7</td><td>S6 Pit</td></rdl<>	1.7	S6 Pit
5/7/98		<rdl< td=""><td><rdl< td=""><td>37</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>2</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>37</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>2</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	37	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>2</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>2</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>2</td></rdl<></td></rdl<>	<rdl< td=""><td>2</td></rdl<>	2
5/7/98	8-CG	<rdl< td=""><td><rdl< td=""><td>1,400</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.1</td><td>)</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1,400</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.1</td><td>)</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1,400	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.1</td><td>)</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.1</td><td>)</td></rdl<></td></rdl<>	<rdl< td=""><td>1.1</td><td>)</td></rdl<>	1.1	)
5/7/98	9-CG	<rdl< td=""><td><rdl< td=""><td>940</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>-</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>940</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>-</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	940	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>-</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.3</td><td>-</td></rdl<></td></rdl<>	<rdl< td=""><td>1.3</td><td>-</td></rdl<>	1.3	-
5/7/98	10-CG	<rdl< td=""><td><rdl< td=""><td>720</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>F</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>720</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>F</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	720	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>F</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>F</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>F</td></rdl<></td></rdl<>	<rdl< td=""><td>F</td></rdl<>	F
5/7/98	11-CG	<rdl< td=""><td><rdl< td=""><td>34</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>34</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	34	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<>	<rdl< td=""><td></td></rdl<>	
5/7/98	12-CG	<rdl< td=""><td><rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>		<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<>	<rdl< td=""><td></td></rdl<>	
	13-CG 12 india	<rdl< td=""><td>5.9</td><td>and the second se</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	5.9	and the second se	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<>	<rdl< td=""><td></td></rdl<>	
	14-CG IZ in T	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.0</td><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.0</td><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.0</td><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.0</td><td></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.0</td><td></td></rdl<></td></rdl<>	<rdl< td=""><td>1.0</td><td></td></rdl<>	1.0	
	15-CG 12 1 T	<rdl< td=""><td>60</td><td></td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	60		<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<>	<rdl< td=""><td>1</td></rdl<>	1
	16-CG 12 in T	<rdl< td=""><td><rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1 11</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1 11</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>		<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1 11</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1 11</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1 11</td></rdl<></td></rdl<>	<rdl< td=""><td>1 11</td></rdl<>	1 11
the local division of	17-CG 12: T	<rdl< td=""><td><rdl< td=""><td>and the second se</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>(12 A</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>and the second se</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>(12 A</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	and the second se	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>(12 A</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.3</td><td>(12 A</td></rdl<></td></rdl<>	<rdl< td=""><td>1.3</td><td>(12 A</td></rdl<>	1.3	(12 A
	18-CG 12: 17	<rdl< td=""><td>43</td><td>- DE SA PERSONAL</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>Ta</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	43	- DE SA PERSONAL	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>Ta</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>Ta</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>Ta</td></rdl<></td></rdl<>	<rdl< td=""><td>Ta</td></rdl<>	Ta
	19-CG 12 in T	<rdl< td=""><td><rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>		<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<>	<rdl< td=""><td></td></rdl<>	
5/7/98	20-CG 12 in T	<rdl< td=""><td><rdl< td=""><td>150</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>150</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	150	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<>	<rdl< td=""><td>1</td></rdl<>	1
5/7/98	21-CG 12:57	<rdl< td=""><td><rdl< td=""><td>1000</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1000</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1000	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1</td></rdl<></td></rdl<>	<rdl< td=""><td>1</td></rdl<>	1
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Salty Bill Salt Water Disposal Cleanup 1998 Analytical Reports NMOCD Required Cleanup Levels: Benzene 10 ppm, BTEX 50 ppm,

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Cadmium	Chromium	Lead	Selenium	Silver	Chloride	
0.010pm	0.05 ppm	·05ppm	.0 Spom	.05ppm	250	- in Gw
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POST OFFICE BOX 1418 3722 NATIONAL PARKS HWY. CARLSBAD, NEW MEXICO 88220 AUG I 7 1999

(505) 887-5581

August 13, 1999

CERTIFIED MAIL Return Receipt No. P 437020071

Roger C. Anderson Environmental Bureau Chief Oil Conservation Division 2040 South Pacheco Street Santa Fe, NM 87505

> Re: Salty Bill Water Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, N.M.P.M. Eddy County, New Mexico

Dear Mr. Anderson:

As requested in your letter of August 9, 1999, the following are enclosed:

- A location map of the facility showing the sample locations CG-1 to CG-22, Pump Station 1 to 4, and T-1 to T-7;
- The sample depth below ground surface of each sample location;
- 3. A copy of the chain of custody for all laboratory samples:

If you have any questions, please contact us.

Very truly yours,

Mitchel Morris

Mitchell Morris

MM/

Enclosures

Cc: Joel M. Carson, Esquire Losee, Carson, Haas, & Carroll Artesia Office OCD



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### Salty Bill Water Disposal Facility Sample Depths

Samples CG-1 to CG-12 were taken out of the pit that had be dug up. CG-1 to CG-3 and CG-5 to CG-7 were taken 6 feet below ground surface.

Samples CG-13 to CG-22 were taken 12 inches below ground surface.

Samples T-1 to T-7 were taken 18 inches below ground surface.

Samples Pump Station 1 to 4 were taken 4 feet below ground surface.

pump Simp #4 pump Simp # 2 Project Number: Contact Phone # (505) Company Name: pimpSimp#3 Report Sent to: (Client Contact): pump sump #1 Address: 4-6 Project Name: SALTY K 111-1 7-4 たい 7 イト Sample ID # GENE Marrin Godder (5 = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Studge) (A = Air Sample) (F = Foods) (M = Miscethiacous Samplers: (signature) Relinquished By: j, **Relinquished** By 「で「 10:45 5-14-98 C) 5-14-98 86-11-28 5-14-98 5-14-98 5-14-28 10:15 orinne. 5-14-98 Sample Date / Time 10135 Bak 10:40 040 10110 0:35 5210 -141 87-5581 Fax # (505)887-5583 85 8141 Comp 121 Han b. Grace N X N X Grab 2 5/14/98 Date / Time Date / Time S  $\overline{\mathcal{N}}$ S  $\overline{\mathcal{N}}$  $\mathcal{S}$ 5 Matrix Pit closure No. 5 Mpimpsimp #2 ACCURA ANALYTICAL LABORATORY, INC. reserved 4-4 TENE 4-6 Carlsbad 7-5 punpsimp # 3 pump sump # 1 4 1 4-1 + # dursdand Sample Location: Morris Samplers: (printed) TPOR IP CHAIN OF CUSTODY Environmental Analytical Services LEE Received By: 0. vecelned Br ( × 19 Container No. of Р 4 y Ŋ Ν ذو ) Y 9 72nc د Billing address ANAL 802 the state is a second ģ FORAZ 7 5-15-78/9:3 Date / Time 5-14-Date / Time 4 SAME 61 Phone # (770) 449-8800 70 6017 Financial Drive, Norcross, GA 30071 Special Requirements Or Remarks: **Turnaround Time Requested** 12-5/15/98 ABL# 1684 MD43781 An2-437710 MB43777 C&ECHGAN REPARA ALEShaw 1942年1941 MB43785 -24SHON ABURD Remarks Fax#(770) 449-5477 13330 1. S. 1. Sample ID No. AB Acount 229 1 of 2

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#### Salty Bill Salt Water Disposal Cleanup 1998 Analytical Reports NMOCD Required Cleanup Levels: Benzene 10 ppm, BTEX 50 ppm, TPH 100 ppm, Metals at WQCC levels

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	ТРН 100 ppm, ме	elais al vvQ	CC levels					
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5/14/98	pump sump # 1	<rdl< td=""><td>21</td><td>4,500</td><td><rdl< td=""><td><rdl< td=""><td>1.1</td><td>3.0</td></rdl<></td></rdl<></td></rdl<>	21	4,500	<rdl< td=""><td><rdl< td=""><td>1.1</td><td>3.0</td></rdl<></td></rdl<>	<rdl< td=""><td>1.1</td><td>3.0</td></rdl<>	1.1	3.0
5/14/98	pump sump # 2	<rdl< td=""><td><rdl< td=""><td>300</td><td><rdl< td=""><td><rdl< td=""><td>1.8</td><td>1.3</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>300</td><td><rdl< td=""><td><rdl< td=""><td>1.8</td><td>1.3</td></rdl<></td></rdl<></td></rdl<>	300	<rdl< td=""><td><rdl< td=""><td>1.8</td><td>1.3</td></rdl<></td></rdl<>	<rdl< td=""><td>1.8</td><td>1.3</td></rdl<>	1.8	1.3
5/14/98	pump sump # 3	<rdl< td=""><td><rdl< td=""><td>110</td><td><rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.5</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>110</td><td><rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.5</td></rdl<></td></rdl<></td></rdl<>	110	<rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.5</td></rdl<></td></rdl<>	<rdl< td=""><td>2.1</td><td>1.5</td></rdl<>	2.1	1.5
	pump sump # 4	<rdl< td=""><td><rdl< td=""><td>85</td><td><rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.3</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>85</td><td><rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.3</td></rdl<></td></rdl<></td></rdl<>	85	<rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.3</td></rdl<></td></rdl<>	<rdl< td=""><td>2.1</td><td>1.3</td></rdl<>	2.1	1.3
5/14/98	T-1	<rdl< td=""><td>18</td><td>960</td><td><rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.6</td></rdl<></td></rdl<></td></rdl<>	18	960	<rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.6</td></rdl<></td></rdl<>	<rdl< td=""><td>2.0</td><td>1.6</td></rdl<>	2.0	1.6
5/14/98	T-2	<rdl< td=""><td>191</td><td>2,800</td><td>13</td><td><rdl< td=""><td>1.1</td><td>1.6</td></rdl<></td></rdl<>	191	2,800	13	<rdl< td=""><td>1.1</td><td>1.6</td></rdl<>	1.1	1.6
5/14/98	T-3	<rdl< td=""><td><rdl< td=""><td>320</td><td><rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.8</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>320</td><td><rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.8</td></rdl<></td></rdl<></td></rdl<>	320	<rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.8</td></rdl<></td></rdl<>	<rdl< td=""><td>2.0</td><td>1.8</td></rdl<>	2.0	1.8
5/14/98	T-4	<rdl< td=""><td>34</td><td>320</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	34	320	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.7</td></rdl<></td></rdl<>	<rdl< td=""><td>1.7</td></rdl<>	1.7
5/14/98		<rdl< td=""><td><rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td>2.2</td><td>2.0</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td></td><td><rdl< td=""><td><rdl< td=""><td>2.2</td><td>2.0</td></rdl<></td></rdl<></td></rdl<>		<rdl< td=""><td><rdl< td=""><td>2.2</td><td>2.0</td></rdl<></td></rdl<>	<rdl< td=""><td>2.2</td><td>2.0</td></rdl<>	2.2	2.0
5/14/98	T-6	<rdl< td=""><td><rdl< td=""><td>690</td><td><rdl< td=""><td><rdl< td=""><td>1.2</td><td>1.6</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>690</td><td><rdl< td=""><td><rdl< td=""><td>1.2</td><td>1.6</td></rdl<></td></rdl<></td></rdl<>	690	<rdl< td=""><td><rdl< td=""><td>1.2</td><td>1.6</td></rdl<></td></rdl<>	<rdl< td=""><td>1.2</td><td>1.6</td></rdl<>	1.2	1.6
5/14/98		<rdl< td=""><td></td><td>1,500</td><td><rdl< td=""><td><rdl< td=""><td>1.9</td><td>1.5</td></rdl<></td></rdl<></td></rdl<>		1,500	<rdl< td=""><td><rdl< td=""><td>1.9</td><td>1.5</td></rdl<></td></rdl<>	<rdl< td=""><td>1.9</td><td>1.5</td></rdl<>	1.9	1.5
5/14/98	Method blank	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
							<b>1</b>	
5/7/98	1-CG	<rdl< td=""><td><rdl< td=""><td>2,100</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>2,100</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	2,100	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	2-CG	<rdl< td=""><td><rdl< td=""><td>150</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>150</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	150	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	3-CG	<rdl< td=""><td><rdl< td=""><td>120</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>120</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	120	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	4-CG	<rdl< td=""><td><rdl< td=""><td>200</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>200</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	200	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	5-CG	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	6-CG	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.7</td></rdl<></td></rdl<>	<rdl< td=""><td>1.7</td></rdl<>	1.7
5/7/98	7-CG	<rdl< td=""><td><rdl< td=""><td>37</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>37</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	37	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	8-CG	<rdl< td=""><td><rdl< td=""><td>1,400</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.1</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1,400</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.1</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1,400	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.1</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.1</td></rdl<></td></rdl<>	<rdl< td=""><td>1.1</td></rdl<>	1.1
5/7/98	9-CG	<rdl< td=""><td><rdl< td=""><td>940</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>940</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	940	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.3</td></rdl<></td></rdl<>	<rdl< td=""><td>1.3</td></rdl<>	1.3
5/7/98	10-CG	<rdl< td=""><td><rdl< td=""><td>720</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>720</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	720	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
	11-CG	<rdl< td=""><td><rdl< td=""><td>34</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>34</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	34	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
	12-CG	<rdl< td=""><td><rdl< td=""><td>360</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>360</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	360	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
	13-CG	<rdl< td=""><td>5.9</td><td>350</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	5.9	350	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
	14-CG	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.0</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.0</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.0</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.0</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.0</td></rdl<></td></rdl<>	<rdl< td=""><td>1.0</td></rdl<>	1.0
	15-CG	<rdl< td=""><td>60</td><td>1,200</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	60	1,200	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
	16-CG	<rdl< td=""><td><rdl< td=""><td>780</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>780</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	780	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
	17-CG	<rdl< td=""><td><rdl< td=""><td>130</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>130</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	130	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.3</td></rdl<></td></rdl<>	<rdl< td=""><td>1.3</td></rdl<>	1.3
	18-CG	<rdl< td=""><td>43</td><td>860</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	43	860	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	19-CG	<rdl< td=""><td><rdl< td=""><td>310</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>310</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	310	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	20-CG	<rdl< td=""><td><rdl< td=""><td>150</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>150</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	150	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	21-CG	<rdl< td=""><td><rdl< td=""><td>1000</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1000</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1000	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	22-CG	<rdl< td=""><td><rdl< td=""><td>560</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>560</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	560	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>
5/7/98	Method blank	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""></rdl<></td></rdl<>	<rdl< td=""></rdl<>

Salty Bill Salt Water Disposal Cleanup 1998 Analytical Reports NMOCD Required Cleanup Levels: Benzene 10 ppm, BTEX 50 ppm,

Cadmium	Chromium	Lead	Selenium	Silver	Chloride
<rdl< td=""><td><rdl< td=""><td>1.1</td><td><rdl< td=""><td><rdl< td=""><td>10,000</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1.1</td><td><rdl< td=""><td><rdl< td=""><td>10,000</td></rdl<></td></rdl<></td></rdl<>	1.1	<rdl< td=""><td><rdl< td=""><td>10,000</td></rdl<></td></rdl<>	<rdl< td=""><td>10,000</td></rdl<>	10,000
<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,800</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,800</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,800</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>8,800</td></rdl<></td></rdl<>	<rdl< td=""><td>8,800</td></rdl<>	8,800
<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,500</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,500</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,500</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>8,500</td></rdl<></td></rdl<>	<rdl< td=""><td>8,500</td></rdl<>	8,500
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<rdl< td=""><td><rdl< td=""><td>1.2</td><td><rdl< td=""><td><rdl< td=""><td>5,100</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1.2</td><td><rdl< td=""><td><rdl< td=""><td>5,100</td></rdl<></td></rdl<></td></rdl<>	1.2	<rdl< td=""><td><rdl< td=""><td>5,100</td></rdl<></td></rdl<>	<rdl< td=""><td>5,100</td></rdl<>	5,100
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page 2



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

June 1, 1999

#### CERTIFIED MAIL RETURN RECEIPT NO. P.326-936-541

Ms. Corinne B. Grace P.O. Box 1418 3722 National Parks Hwy. Carlsbad, N.M. 88220

#### Re: Salty Bills Water Disposal Facility

NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Dear Ms. Grace:

The New Mexico Oil Conservation Division (OCD) received the Salty Bill Salt Water Disposal Facility's (Salty Bill) letter and analytical results dated June 16, 1998 concerning the above-referenced water disposal facility remediation. On June 18, 1998 the OCD requested the additional information regarding the facility investigation and remediation. As required in the OCD letter dated December 12, 1997, the OCD requires the following additional information in order to evaluate the ongoing remediation at Salty Bill.

1. A location map of the facility showing the sample locations CG-1 to CG-22, Pump Station 1 to 4, and T-1 to T-7;

2. The sample depth below ground surface of each sample location;

3. A copy of the chain of custody for all laboratory samples;

- 4. TCLP metal analytical results for As, Ba, Cd, Cr, Pb, Ag (OCD has the Hg and Se results); and
- 5. Volatile organic compound analytical results by EPA method 8240.

To date the OCD has not received a response from Salty Bill Water Disposal Facility concerning the additional requested information. Salty Bill Water Disposal Facility shall provide the additional requested information to the OCD Santa Fe office and a copy to the Artesia District office by July 1, 1999.

If you have any additional questions, please contact me at (505) 827-7153.

Sincerely,

Martyne & Theky

Martyne J. Kieling Environmental Geologist xc: Artesia OCD Office OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (606) 827-7131 John Tymkowych, NMED, HRMB Marcy Leavitt, Chief, NMED, GWQB Mike Matush, SLO Jim Carr, SLO Carlsbad John Waters, Carlsbad Environmental Services STATE OF NEW MEXICO OIL CONSERVATION DIVISION

#### MEMORANDUM OF MEETING OR CONVERSATION

Time Date Telephone Personal 11:09 1999 June 1 Originating Party Other Parties Mitch Morris Kicling Subject C 214 Bill SWD Discussion Jone 18, 1998 letter Additional Rey vests Regarding Conclusions or Agreements unite Aletter to fellow up Phone GII Signed Martyn Ohy, **Distribution** 





June 29, 1998

Sent via Federal Express

Martyne J. Kieling New Mexico Oil Conservation Division Enviromental Bureau 2040 S. Pacheco St. Santa Fe, NM 87505

#### Re: Salty Bill

Dear Martyne:

Enclosed find the TCLP lab reports for the above captioned soil samples. Should you have any questions please give me a call at (505) 887-5581.

Very truly yours,

Mitchell, Marib/ Ken

Mitchell Morris / scm

MM/scm Enclosures

ACCURA	ANALY	<b>TICAL I</b>	LABORAT	ORY, INC.
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6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477 SC Certification # 98015 USACE-MRD Approved NC Certification # 483 FL Certification # E87429

#### LABORATORY REPORT

Accura San	nple ID #:	AB43776	Accura P	'roject #: 16614-A
Client: Grace Oil				Date Sampled: 5/14/98
Client Contact: MI	TCH MORRI	S		Date Received: 5/15/98
Client Project Numbe				Date Reported: 6/26/98
Client Project Name:		BILL PIT CLOSURE		Sample Matrix: SOIL
-		SUMP #1		-
Client Sample ID:	F 0M1			r d'antéritation de la construction
ANALYSIS: TCLP	Extendion 1	Procedure	Me	thod Ref: 1311
		Date Ext/Dig/Prep:		ult Units:
Date Analyzed:	6/23/98	Date Exonigriteb:	0/23/98 2023	
Analyte Name			Analytical Results	Reported Detection Limits
TCLP Extraction			NA	0
ANALYSIS: TCLP	Mercury		Mc	thod Ref: 7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98 Res	sult Units: mg/L
Analyte Name			Analytical Results	Reported Detection Limits
			<rdl< td=""><td>0.01</td></rdl<>	0.01
Mercury (Reg Limit	= 0,2)		~KDL	0.01
ANALYSIS: TCLI	P Metals		Me	thod Ref: 3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98 Re	sult Units: mg/L
-				Den and J Detection I in the
Analyte Name			Analytical Results	Reported Detection Limits
Arsenic (Reg Limit			1.1	-
Barium (Reg Limit	•		3.0	1 1
Cadmium (Reg Lim	-		<rdl <rdl< td=""><td>1</td></rdl<></rdl 	1
Chromium (Reg Lin Lead (Reg Limit = 5				ł
Selenium (Reg Limi			<rdl< td=""><td>10</td></rdl<>	10
Silver (Reg Limit =				1
• • • • • • • • • • • • • • • • • • •				

Accura Analytical Laboratory, Inc.

AALSumple ID #: AB43776 Accura Project #: 16614-A

ACCURA ANALYTICAL LABORATORY, INC.

<RDL = Less than Reported Detection Limit

Fg 1 of 12

Client Sample ID: PUMP SUMP #1

P.03 2275 677 022

RECURA LABS €# 110 3040 <= 2455 844 016 10A-29-1998 13:36 WA41:11 6-29-98;

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LABORATORY REPORT

Accura S	ample ID #:	AB43777	Accura Project #: 16614-A				
Client: Grace Oi	1			Date Sampled: 5/14/98			
Client Contact: N	<b>MITCH MORR</b>	IS		Date Received: 5/15/98			
Client Project Num	iber: NA			Date Reported: 6/26/98			
Client Project Nam	ie: SALTY	BILL PIT CLOSURE		Sample Matrix: SOIL			
Client Sample ID:	PUMP	SUMP #2					
ANALYSIS: TCI	P Extraction	Procedure	M	ethod Ref: 1311			
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/98 Rc	sult Units:			
Analyte Name			Analytical Results	Reported Detection Limits			
TCLP Extraction			NA	0			
ANALYSIS: TCI	P Mercury		M	ethod Ref: 7470A			
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98 Re	sult Units: mg/L			
Analyte Name			Analytical Results	Reported Detection Limits			
Mercury (Reg Lim	it = 0.2)		<rdl< td=""><td>0.01</td></rdl<>	0.01			
ANALYSIS: TCI	P Metals		M	ethod Ref: 3010A/6010B			
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98 Re	sult Units: mg/L			
Analyte Name			Analytical Results	Reported Detection Limits			
Arsenic (Reg Limi	•		1.8	I			
Barium (Reg Limit			1.3	1			
Cadmium (Reg Lin			<rdl< td=""><td>1</td></rdl<>	1			
Chromium (Reg Li Lead (Reg Limit =	-		<rdl< td=""><td>1</td></rdl<>	1			
Selenium (Reg Lin			<rdl <rdl< td=""><td>1</td></rdl<></rdl 	1			
Silver (Reg Limit			<kdl< td=""><td>1</td></kdl<>	1			
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ACCURA ANALYTIC		RY, INC. (RDI.	= Less than Reported Delec	<b>y ,</b> -			
Client Sample 1D; P			AALSample ID #: A	B43777 Accura Project #: 16614-A			
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LABORATORY REPORT

Accura San	ple ID #:	AB43778	Accura	Project #: 16614-A
				Date Sampled: 5/14/98
Client: Grace Oil		_		Date Received: 5/15/98
Client Contact: MI		8		Date Reported: 6/26/98
Client Project Numbe				Sample Matrix: SOIL
Client Project Name:		BILL PIT CLOSURE		<b></b>
Client Sample ID:	PUMP	SUMP #3		
ANALYSIS: TCLP	Extraction	Procedure	1	Method Ref: 1311
	6/23/98	Date Ext/Dig/Prep:	6/23/98 E	Result Units:
Date Analyzed:	0/25/70			Reported Detection Limits
Analyte Name			Analytical Results	
TCLP Extraction			NA	0
	9 Maroury			Method Ref: 7470A
ANALYSIS: TCL	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units: mg/L
Date Analyzed:	0/24/90	Date 710 2 .8 L.	Analytical Result	Reported Detection Limits
Analyte Name			-	0.01
Mercury (Reg Limi	it = 0.2)		<rdl< td=""><td>0.01</td></rdl<>	0.01
				Method Ref: 3010A/6010B
ANALYSIS: TCL	P Metals			Result Units: mg/L
Date Analyzed:	6/25/9 <b>8</b>	Date Ext/Dig/Prep:	6/24/98	
Analyte Name			Analytical Resul	ts Reported Detection Limits
Arsenic (Reg Limi	t ≕ 5 0)		2.1	1
Barium (Reg Lim	t = 100.0		1.5 •	I I
Cadmium (Reg Li	mit = 1.0)		<rdl <rdl< td=""><td>1</td></rdl<></rdl 	1
Chromium (Reg L	imit = 5.0)		~RDL	1
Lead (Reg Limit =			<rdl< td=""><td>1</td></rdl<>	1
Selenium (Reg Lin Silver (Reg Limit			<rdl< td=""><td>1</td></rdl<>	1
SHAN (YOR During	••••			
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				Accura Analytical Laboratory, Inc.
ACCURA ANALYI		ATORY, INC. <	DL = Less than Reports	d Detection Limit Pg 3 of 12
Client Sample 1D:				0#: AB43778 Accura Project #: 16614-A

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# ACCURA ANALYTICAL LABORATORY, INC.

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SC Certification # 98015 NC Certification # 483 FL Certification # E87429 LABORATORY REPORT

Accura Project #: 16614-A Accura Sample ID #: AB43779 Date Sampled: 5/14/98 Date Received: 5/15/98 Client: Grace Oil Client Contact: MITCH MORRIS Date Reported: 6/26/98 Client Project Number: NA Sample Matrix: SOIL SALTY BILL PIT CLOSURE Client Project Name: PUMP SUMP #4 **Client Sample ID:** Method Ref: 1311 ANALYSIS: TCLP Extraction Procedure Result Units: Date Ext/Dig/Prep: 6/23/98 6/23/98 Date Analyzed: Reported Detection Limits Analytical Results Analyte Name 0 NA TCLP Extraction Method Ref: 7470A ANALYSIS: TCLP Mercury Result Units: mg/L Date Ext/Dig/Prep: 6/24/98 6/24/98 Date Analyzed: Reported Detection Limits Analytical Results Analyte Name 0.01 <RDL Mercury (Reg Limit = 0.2) Method Ref: 3010A/6010B ANALYSIS: TCLP Metals Result Units: mg/L Date Ext/Dig/Prep: 6/24/98 6/25/98 Date Analyzed: Reported Detection Limits Analytical Results Analyte Name L 2.1 1 Arsenic (Reg Limit = 5.0) 1.3 Barium (Reg Limit = 100.0) 1 <RDL Cadmium (Reg Limit = 1.0) <RDL Chromium (Reg Limit = 5.0) <RDL Lead (Reg Limit = 5.0) <RDL Scienium (Reg Limit = 1.0) <RDL Silver (Reg Limit = 5.0) Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

<RDL = Less than Reported Detection Limit

Pg 4 of 12

AAL Sample ID #: AB43779 Accura Project #: 16614-A

Client Sample ID: FUMP SUMP #4 90'd 2275 677 022

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# CCURA ANALYTICAL LABONATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477 FL Certification # E87429

SC Certification # 98015 NC Certification # 483 USACE-MRD Approved LABORATORY REPORT

Accura Sa	mple ID #:	: AB43780	A	ccura Proj	ect #	16614-A	
Client: Grace Oil					Date	Sampled: 5/	14/98
Client Contact: M	ITCH MORR	IS			Date	Received: 5/	15/98
Client Project Numl	per: NA				Date	Reported: 6/2	26/98
Client Project Name	SALTY	BILL PIT CLOSURE				ole Matrix: SC	
Client Sample ID:							
ANALYSIS: TCL	P Extraction	Procedure		Method	Ref:	1311	,
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/98	Result U	nits:		
Analyte Name			Analytical Re	-sults	Re	ported Detecti	ion Limits
TCLP Extraction			NA			0	
ANALYSIS: TCL	P Mercury			Method	Ref:	7470A	
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result U	nits:	mg/L	
<u>Analyte Name</u>			Analytical Re	esults	Re	ported Detecti	ion Limits
Mercury (Reg Limit	t = 0.2)		<rdl< td=""><td></td><td></td><td>0.01</td><td></td></rdl<>			0.01	
ANALYSIS; TCL	P Metals			Method	Ref:	3010A/6010	в
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98	Result U	inits:	mg/L	
Analyte Name			Analytical Re	esults	Re	ported Detecti	ion Limits
Arsenic (Reg Limit			2.0	•		1	
Barium (Reg Limit			1.6	•		1	
Cadmium (Reg Lin	•		<rdl< td=""><td></td><td></td><td>1</td><td></td></rdl<>			1	
Chromium (Reg Lin			<rdl <rdl< td=""><td></td><td></td><td>1</td><td></td></rdl<></rdl 			1	
Lead (Reg Limit = : Selenium (Reg Lim			<rdl< td=""><td></td><td></td><td>1</td><td></td></rdl<>			1	
Silver (Reg Limit =						4	

Accura Analytical Laboratory, Inc.

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<RDL = Less than Reported Detection Limit

Pg 5 of 12

Client Sample ID: T-1

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AALSample ID #: AB43780 Accura Project #: 16614-A

# CCURA ANALYTICAL LABORTORY, INC.

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LABORATORY REPORT

Accura Sample ID #: AB43781

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#### Accura Project #: 16614-A

Client: Grace Oil	
Client Contact: MITC	H MORRIS
Client Project Number:	NA
Client Project Name:	SALTY BILL PIT CLOSURE
Client Sample ID:	T-2

Date Sampled: 5/14/98 Date Received: 5/15/98 Date Reported: 6/26/98 Sample Matrix: SOIL

ANALYSIS: TCLP	Extraction P	rocedure		Method Ref:	1311
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/98	Result Units:	
Analyte Name			Analytical Resu	lts <u>Re</u>	ported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCLP	<u>Mercurv</u>			Method Ref:	7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Resu	<u>tts Re</u>	ported Detection Limits
Mercury (Reg Limit	= 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCLF	Metals			Method Ref:	3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prop:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Resu	lts Re	ported Detection Limits
Arsenic (Reg Limit	= 5.0)		1.1 -		1
Barium (Reg Limit =	= 100.0)		1.6 -		1
Cadmium (Reg Limi	it = 1.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Lin	nit = 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Lead (Reg Limit = 5	i.0)		1.2 .		1
Selenium (Rcg Limi	t = 1.0)		<rdl< td=""><td></td><td>10</td></rdl<>		10

Accura Analytical Laboratory, Inc.

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ACCURA ANALYTICAL LABORATORY, INC.

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<RDL = Less than Reported Detection Limit

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Pg 6 of 12

Client Sample ID: T-2

Silver (Reg Limit = 5.0)

AALSample ID #: AB43781 Accura Project #: 16614-A

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#### TORY, INC. ACCURA ANALYTICAL LABON

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

#### LABORATORY REPORT

Accura Sa	mple ID #:	AB43782	Accu	ra Project #	#: 16614-A
Client: Grace Oil				Date	Sampled: 5/14/98
Client Contact: MI	TCH MORRI	IS		Date	Received: 5/15/98
Client Project Numb	er: NA			Date	: Reported: 6/26/98
Client Project Name		BILL PIT CLOSURE			ple Matrix: SOIL
Client Sample ID:	Т-3			0	
·		·			
ANALYSIS: TCLP	Extraction I	Procedure		Method Ref:	1311
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/98	Result Units:	
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCLE	Mercury			Method Ref:	7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
Mercury (Reg Limit	= 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCLI	<sup>o</sup> Metals			Method Ref:	3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98	Result Units;	mg/L
Analyte Name			Analytical Resul	ts Re	ported Detection Limits
Arsenic (Reg Limit	-		2.0		1
Barium (Reg Limit -			1.8 -		1
Cadmium (Reg Lim			<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Lin			<rdl< td=""><td></td><td>1</td></rdl<>		1
Lead (Reg Limit = 5 Selenium (Reg Limi			<rdl <rdl< td=""><td></td><td>1</td></rdl<></rdl 		1
Silver (Reg Limit =			<rdl< td=""><td></td><td>1</td></rdl<>		1
5	2.0,				-

Accura Analytical Laboratory, Inc.

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Client Sample ID: T-3

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---- i  AALSample ID #: AB43782 Accura Project #: 16614-A

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved LABORATORY REPORT

Accura Sample ID #: AB43783		Accura	a Project #: 16614-A		
Client: Grace Oil			Date Sampled: 5/14/98		
Client Contact: MIT	CH MORRIS	5		Date Received: 5/15/98	
Client Project Number	: NA			Date Reported: 6/26/98	
Client Project Name: SALTY BILL PIT CLOSURE				Sample Matrix: SOIL	
•		ALT IT CLOSORE		Danipie Maarik. 5012	
Client Sample ID:	T-4				
ANALYSIS: TCLP E	xtraction P	rocedure	ł	Aethod Ref: 1311	
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/98 B	lesult Units:	
Analyte Name			Analytical Results	Reported Detection Limits	
TCLP Extraction			NA	0	
ANALYSIS: TCLP N	Mercury		1	Method Ref: 7470A	
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units: mg/L	
Analyte Name			Analytical Results	Reported Detection Limits	
Mercury (Reg Limit =	0.2)		<rdl< td=""><td>0.01</td></rdl<>	0.01	
ANALYSIS: TCLP	Metals		1	Method Ref: 3010A/6010B	
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98	Result Units: mg/L	
Analyte Name			Analytical Results	Reported Detection Limits	
Arsenic (Reg Limit = :	5.0)		<rdl< td=""><td>1</td></rdl<>	1	
Barium (Reg Limit = )			1.7 ~	1	
Cadmium (Reg Limit			<rdl< td=""><td>1</td></rdl<>	1	
Chromium (Reg Limit			<rdl< td=""><td>1</td></rdl<>	1	
Lead (Reg Limit = 5.0			<rdl< td=""><td>1</td></rdl<>	1	
Selenium (Reg Limit = Silver (Reg Limit = 5.	-		<rdl <rdl< td=""><td>1</td></rdl<></rdl 	1	
Sunci (Keß Fittiff = 2)	V)			,	

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Client Sample ID: T-4

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AALSample ID #: AB43783 Accura Project #: 16614-A

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43784			Accura Project #: 16614-A		
Client: Grace Oil				Dat	e Sampled: 5/14/98
Client Contact: Mi	ITCH MORR	IS		Dat	e Received: 5/15/98
Client Project Numb	er: NA			Dat	c Reported: 6/26/98
Client Project Name	: SALTY	BILL PIT CLOSURE		San	ple Matrix: SOIL
Client Sample ID:	T-5				
ANALYSIS: TCL	extraction	Procedure		Method Ref:	1311
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/98	Result Units	:
Analyte Name			Analytical Res	ults R	eported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCLI	Mercury			Method Ref:	7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units	: mg/L
Analyte Name			Analytical Res	aults <u>R</u>	eported Detection Limits
Mercury (Reg Limit	:= (0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCLI	P Metals			Method Ref	: 3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98	Result Units	: mg/L
Analyte Name			Analytical Res	sults R	eported Detection Limits
Arsenic (Reg Limit	= 5.0)		2.2	•	I
Barium (Reg Limit			2.0	-	1
Cadmium (Reg Lim			<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Lin Lead (Reg Limit = 5			<rdl <rdl< td=""><td></td><td>1</td></rdl<></rdl 		1
Selenium (Reg Limi	-		<rdl< td=""><td></td><td>1</td></rdl<>		1
Silver (Reg Limit =			<rdl< td=""><td></td><td>3</td></rdl<>		3
				Lid	Ande

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Client Sample ID: T-5

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AALSample ID #: AB43784 Accura Project #: 16614-A

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved LABORATORY REPORT

Accura Sample ID #: AB43785			Accura Project #: 16614-A			
Client: Grace Oil			Date Sampled: 5/14/98			
Client Contact: MIT	CH MORRIS	5	Date Received: 5/15/98			
Client Project Number	: NA			Date	Reported: 6/26/98	
Client Project Name:	SALTY B	ILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	<b>T-6</b>					
ANALYSIS: TCLP I	Extraction P	rocedure		Method Ref:	1311	
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/9 <b>8</b>	Result Units:		
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits	
TCLP Extraction			NA		0	
ANALYSIS: TCLP	Mercury			Method Ref:	7470A	
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L	
Analyte Name			Analytical Resul	its <u>Ro</u>	ported Detection Limits	
Mercury (Reg Limit =	0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01	
ANALYSIS: TCLP	Metals			Method Ref:	3010A/6010B	
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L	
Analyte Name			Analytical Resul	ts Re	ported Detection Limits	
Arsenic (Reg Limit =			1.2 •		1	
Barium (Reg Limit =			1.6 - <rdl< td=""><td></td><td>1</td></rdl<>		1	
Cadmium (Reg Limit Chromium (Reg Limit			<rdl <rdl< td=""><td></td><td>1</td></rdl<></rdl 		1	
Lead (Reg Limit = 5.0			<rdl< td=""><td></td><td>I</td></rdl<>		I	
Selenium (Reg Limit			<rdl< td=""><td></td><td>10</td></rdl<>		10	
Silver (Reg Limit = 5.			<rdl< td=""><td></td><td>I</td></rdl<>		I	

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Client Sample ID: T-6

AALSample ID #: AB43785 Accura Project #: 16614-A

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SC Certification # 98015 USACE-MRD Approved NC Cortification # 483

#### LABORATORY REPORT

Accura Sample ID #: AB43786			Accura Project #: 16614-A		
Client: Grace Oil				Date	Sampled: 5/14/98
Client Contact: MI	TCH MORR	IS		Date	Received: 5/15/98
Client Project Numb	er: NA			Date	Reported: 6/26/98
•		BILL PIT CLOSURE		Sam	ple Matrix: SOIL
Client Sample ID:	T-7				
······	• · ·		·• •· ····		······································
ANALYSIS: TCLF	Extraction	Procedure		Method Ref:	1311
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/9 <b>8</b>	Result Units:	
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCLI	Mercury	<u></u>		Method Ref:	7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Resul	its Re	ported Detection Limits
Mercury (Reg Limit	= 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCL	Metals			Method Ref:	3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Resu	lts Re	ported Detection Limits
Arsenic (Reg Limit	= 5.0)		1,9 -	•	1
Barium (Reg Limit			1.5 -		1
Cadmium (Reg Lim	•		<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Lir	-		<rdl <rdl< td=""><td></td><td>1</td></rdl<></rdl 		1
Lead (Reg Limit = 5	•		~RDL <rdl< td=""><td></td><td>1</td></rdl<>		1
Selenium (Reg Lim. Silver (Reg Limit =			<rdl< td=""><td></td><td>1</td></rdl<>		1
CULLE LINE	2.9/				

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<RDL = Less than Reported Detection Limit

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Client Sample ID: T-7

AALSample ID #: AB43786 Accura Project #: 16614-A

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LABORATORY REPORT

Accura Sample ID #:	AB43787	Accura Project #: 16614-A			
Client: Grace Oil			Date Sampled: 5/14/98		
Client Contact: MITCH MORRI	S		Date Received: 5/15/98		
Client Project Number: NA			Date Reported: 6/26/98		
Client Project Name: SALTY I	BILL PIT CLOSURE		Sample Matrix: SOIL		
Client Sample ID: METH	OD BLANK				
ANALYSIS: TCLP Extraction I	Procedure	Ň	Aethod Ref: 1311		
	Date Ext/Dig/Prep:		lesult Units:		
Date Analyzed: 6/23/98	Date Extrong/rrep:	0/23/90 P	lesuit Oms:		
Analyte Name		Analytical Results	Reported Detection Limits		
TCLP Extraction		NA	0		
ANALYSIS: TCLP Mercury		1	Method Ref: 7470A		
Date Analyzed: 6/24/98	Date Ext/Dig/Prep:	6/24/98 I	lesult Units: mg/L		
Analyte Name		Analytical Results	Reported Detection Limits		
Mercury (Reg Limit = 0.2)		<rdl< td=""><td>0.01</td></rdl<>	0.01		
ANALYSIS: TCLP Metals		I	Method Ref: 3010A/6010B		
Date Analyzed: 6/25/98	Date Ext/Dig/Prep:	6/24/98	Result Units: mg/L		
Analyte Name		Analytical Results	Reported Detection Limits		
Arsenic (Reg Limit = 5.0)		<rdl< td=""><td>l</td></rdl<>	l		
Barium (Reg Limit = 100.0)		<rdl< td=""><td>1</td></rdl<>	1		
Cadmium (Reg Limit = 1.0)		<rdl< td=""><td>1</td></rdl<>	1		
Chromium (Reg Limit = 5.0)		<rdl< td=""><td>1</td></rdl<>	1		
Lead (Reg Limit = $5.0$ )		<rdl< td=""><td>1</td></rdl<>	1		
Selenium (Reg Limit = $1.0$ )		<rdl< td=""><td>1</td></rdl<>	1		
Silver (Reg Limit = 5.0)		<rdl< td=""><td>Ĩ</td></rdl<>	Ĩ		

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ACCURA ANALYTICAL LABORATORY, INC. Client Sample ID: METHOD BLANK

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<RDL - Less than Reported Detection Limit

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AAI.Sample ID #: AB43787 Accura Project #: 16614-A

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43361			Accura Project #: 16546-A		
Client: Grace Oil				Date Sampled: 5/7/98	
Client Contact: M	ITCH MORR	IS		Date Received: 5/9/98	
Client Project Num	per: NA			Date Reported: 6/26/98	
Client Project Name		BILL PIT CLOSURE		•	
Client Sample ID:	1-CG			Sample Matrix: SOIL	
Cheut Sample ID.	1-0.0	· · · · · · · · · · · · · · · · · · ·	<u></u>	A	
ANALYSIS: TCL	P Extraction	Procedure		Method Ref: [311	
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:	
Analyte Name			Analytical Resu	lts Reported Detection Limits	
TCLP Extraction			NA	0	
ANALYSIS: TCL	P Mercury			Method Ref: 7470A	
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units: mg/L	
Analyte Name			Analytical Resu	Its Reported Detection Limits	
Mercury (Reg Limit	t = 0.2)		<rd><rd>RDL</rd></rd>	0.01	
ANALYSIS: TCL	P Metals			Method Ref: 3010A/6010B	
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/23/98	Result Units: mg/L	
Analyte Name			Analytical Resu	Its Reported Detection Limits	
Arsenic (Reg Limit	= 5.0)		<rdl< td=""><td>1</td></rdl<>	1	
Barium (Reg Limit	-		<rdl< td=""><td>i</td></rdl<>	i	
Cadmium (Reg Lim	•		<rdl< td=""><td>1</td></rdl<>	1	
Chromium (Reg Lir	•		<rdl< td=""><td>1</td></rdl<>	1	
Lead (Reg Limit = :			<rdl< td=""><td>1</td></rdl<>	1	
Selenium (Reg Limi Silver (Reg Limit =			<rdl <rdl< td=""><td>1</td></rdl<></rdl 	1	
ouver (reg runn	5.07			1	

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Client Sample ID: 1-CG

AALSample ID #: AB43361 Accura Project #: 16546-A

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43362 Accura Project #: 16546-A Client: Grace Oil Date Sampled: 5/7/98 Client Contact: MITCH MORRIS Date Received: 5/9/98 Client Project Number: NA Date Reported: 6/26/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL **Client Sample ID:** 2-CG ANALYSIS: TCLP Extraction Procedure Method Ref: 1311 Date Analyzed: 6/22/98 Date Ext/Dig/Prep: 6/22/98 **Result Units:** Analyte Name Analytical Results Reported Detection Limits **TCLP** Extraction NA 0 ANALYSIS: TCLP Mercury Method Ref: 7470A Date Analyzed: 6/24/98 Date Ext/Dig/Prep: 6/24/98 Result Units: mg/L Analyte Name **Analytical Results** Reported Detection Limits Mercury (Reg Limit = 0.2) <RDL 0.01 ANALYSIS: TCLP Metals Method Ref: 3010A/6010B Date Ext/Dig/Prep: 6/23/98 Result Units: mg/L Date Analyzed: 6/25/98 Reported Detection Limits Analyte Name Analytical Results Arsenic (Reg Limit = 5.0) <RDL ł Barium (Reg Limit = 100.0) <RDL 1 Cadmium (Reg Limit = 1.0) <RDL t Chromium (Reg Limit = 5.0) <RDL <RDL Lead (Reg Limit = 5.0) Selenium (Reg Limit = 1.0) <RDL 1 Silver (Reg Limit = 5.0) <RDL 1

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<RDL = Less than Reported Detection Limit

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Client Sample ID: 2-CG

AALSample ID #: AB43362 Accura Project #: 16546-A

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura	Sample	<b>W</b> #:	AB43363
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#### Accura Project #: 16546-A

Client: Grace Oil		Date Sampled:	5/7/98
Client Contact: MITC	H MORRIS	Date Received:	<i>5/9/</i> 98
Client Project Number:	NA	Date Reported:	6/26/98
Client Project Name:	SALTY BILL PIT CLOSURE	Sample Matrix:	SOIL
Client Sample ID:	3-CG		

ANALYSIS: TCLP Extraction Procedure				Method Ref:	1311
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:	
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCLP	Mercury			Method Ref:	7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
Mercury (Reg Limit	= 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCLP	Metals			Method Ref:	3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep;	6/23/98	Result Units:	mg/L
Analyte Name			Analytical Resul	lts <u>Re</u>	ported Detection Limits
Arsenic (Reg Limit -	= 5.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I
Barium (Reg Limit =	= 100.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Limi			<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Lin			<rdl< td=""><td></td><td>1</td></rdl<>		1
Lead (Reg Limit = 5			<rdl <rdl< td=""><td></td><td>1</td></rdl<></rdl 		1
Selenium (Reg Limi Silver (Reg Limit =			<rdl <rdl< td=""><td></td><td>l</td></rdl<></rdl 		l
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Client Sample ID: 3-CG

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AALSample ID #: AB43363 Accura Project #: 16546-A

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43364			Accura Project #: 16546-A		
Client: Grace Oi	ł			Date	: Sampled: 5/7/98
Client Contact: N	MITCH MORR	18		Received: 5/9/98	
Client Project Num	aber: NA			Date	: Reported: 6/26/98
Client Project Nam	ie: SALTY	BILL PIT CLOSURE		Sam	plc Matrix: SOIL
Client Sample ID:	: <b>4-CG</b>	1 <b>6 2</b> 74 6	·		-
ANALYSIS: TCI	P Extraction	Procedure		Method Ref:	1311
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:	
Analyte Name			Analytical Results	<u>Re</u>	ported Detection Limit
TCLP Extraction			NA		0
ANALYSIS: TCI	P Mercury			Method Ref:	7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep;	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Results	i <u>Re</u>	ported Detection Limits
Mercury (Reg Lim	it = 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCI	P Metals	*****		Method Ref:	3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/23/98	Result Units:	mg/L
Analyte Name			Analytical Result	a <u>Ro</u>	ported Detection Limits
Arsenic (Reg Limi	it = 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Barium (Reg Limi	-		<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Lin	-		<rdl< td=""><td></td><td> </td></rdl<>		
Chromium (Reg L	•		<rdl <rdl< td=""><td></td><td>1</td></rdl<></rdl 		1
Lead (Reg Limit = Selenium (Reg Lin			<rdl <rdl< td=""><td></td><td>1</td></rdl<></rdl 		1
Silver (Reg Limit			<rdl< td=""><td></td><td>1</td></rdl<>		1
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AALSample ID #: AB43364 Accura Project #: 16546-A

Client Sample (D: 4-CG

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### ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcruss, Georgia 30017, Phone (770)149-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43365			Accura Project #: 16546-A		
Client: Grace Oil	ł			Date	: Sampled: 5/7/98
Client Contact: N	ITCH MORR	IS		Date	Received: 5/9/98
Client Project Num	ber: NA			Date	Reported: 6/26/98
Client Project Nam		BILL PIT CLOSURE			ple Matrix: SOIL
Client Sample ID:			<i>.</i> .	Guin	
ANALYSIS: TCL	P Extraction	Procedure		Method Ref:	1311
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:	
Analyte Name			Analytical Res	ults <u>Re</u>	morted Detection Limits
TCLP Extraction			NA		0
<u>ANALYSIS: TCU</u>	P Mercury	* 1991-1-1-1-1991-1991-199-199-199-199-19		Method Ref:	7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Res	ults <u>Re</u>	ported Detection Limits
Mercury (Reg Lim	it = 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCL	P Metals	······································		Method Ref:	3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	б/23/ <b>98</b>	Result Units:	mg/L
Analyte Name			Analytical Res	ults Re	ported Detection Limits
Arsenic (Reg Limit	t ≂ 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Barium (Reg Limit			<rdl< td=""><td></td><td>I</td></rdl<>		I
Cadmium (Reg Lir	•		<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Li			<rdl< td=""><td></td><td>I</td></rdl<>		I
Lead (Reg Limit =	•		<rdl< td=""><td></td><td>I</td></rdl<>		I
Selenium (Reg Lin Silver (Reg Limit =			<rdl <rdl< td=""><td></td><td>1</td></rdl<></rdl 		1
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Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

<RDL = Less than Reported Detection Limit

Pg 5 of 23

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Client Sample ID: 5-CG

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AALSample ID #: AB43365 Accura Project #: 16546-A

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### CCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43366 Accura Project #: 16546-A Client: Grace Oil Date Sampled: 5/7/98 Client Contact: MITCH MORRIS Date Received: 5/9/98 Client Project Number: NA Date Reported: 6/26/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL **Client Sample ID:** 6-CG ANALYSIS: TCLP Extraction Procedure Method Ref: 1311 Date Analyzed: 6/22/98 Date Ext/Dig/Prep: 6/22/98 **Result Units:** Analyte Name Analytical Results Reported Detection Limits **TCLP** Extraction NA 0 ANALYSIS: TCLP Mercury Method Ref: 7470A Date Analyzed: 6/24/98 Date Ext/Dig/Prep: 6/24/98 Result Units: mg/L Analyte Name Analytical Results Reported Detection Limits Mercury (Reg Limit = 0.2) <RDL 0.01 Method Ref: 3010A/6010B ANALYSIS: TCLP Metals Date Analyzed: 6/25/98 Date Ext/Dig/Prep: 6/23/98 Result Units: mg/L Analyte Name Analytical Results Reported Detection Limits Arsenic (Reg Limit = 5.0) <RDL 1 Barium (Reg Limit = 100.0) 1.7 1 Cadmium (Reg Limit = 1.0) <RDL 1 Chromium (Reg Limit - 5.0) <RDL ł Lead (Reg Limit = 5.0) <RDL Selenium (Reg Limit = 1.0) <RDL Ĩ <RDL Silver (Reg Limit = 5.0) 1

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<RDI. = Less than Reported Detection Limit

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Client Sample ID: 6-CG

AALSample ID #: AB43366 Accurs Project #: 16546-A

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### ACCURA ANALYTICAL LABORATORY, INC.

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43367 Accura Project #: 16546-A Client: Grace Oil Date Sampled: 5/7/98 Client Contact: MITCH MORRIS Date Received: 5/9/98 Client Project Number: NA Date Reported: 6/26/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL **Client Sample ID:** 7-CG ANALYSIS: TCLP Extraction Procedure Method Ref: 1311 Date Analyzed: Date Ext/Dig/Prep: 6/22/98 6/22/98 **Result Units:** Analyte Name Analytical Results Reported Detection Limits **TCLP** Extraction NA 0 ANALYSIS: TCLP Mercury Method Ref: 7470A Date Analyzed: 6/24/98 Date Ext/Dig/Prep: 6/24/98 Result Units: mg/L Analyte Name Analytical Results Reported Detection Limits <RDL Mercury (Reg Limit = 0.2) 0.01 ANALYSIS: TCLP Metals Method Ref: 3010A/6010B Date Analyzed: 6/25/98 Date Ext/Dig/Prop: 6/23/98 Result Units: mg/L **Reported Detection Limits** Analyte Name Analytical Results Arsenic (Reg Limit = 5.0) <RDL I Barium (Reg Limit = 100.0) <RDL 1 <RDL Cadmium (Reg Limit = 1.0) 1 Chromium (Reg Limit = 5.0) <RDL 1 Lead (Rcg Limit = 5.0) <RDL 1 Selenium (Reg Limit = 1.0) <RDL 1 Silver (Reg Limit = 5.0) <RDL 1

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<RDL = Less than Reported Detection Limit

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Pg 7 of 23

Client Sample (D: 7-CG

AALSample ID #: AB43367 Accura Project #: 16546-A

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43368			Accura Project #: 16546-A		
		Date Sampled: 5/7/98			
TCH MORR	18		Date Received: 5/9/98		
er: NA			Date Reported: 6/26/98		
SALTY	BILL PIT CLOSURE		Sample Matrix: SOIL		
8-CG					
• Extraction I	Procedure		Method Ref. 1311		
6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:		
		Analytical Result	Reported Detection Limits		
		NA	0		
Mercury			Method Ref: 7470A		
6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units: mg/L		
		Analytical Result	Reported Detection Limits		
= 0.2)		<rdl< td=""><td>0.01</td></rdl<>	0.01		
P Mctais			Method Ref: 3010A/6010B		
6/25/98	Date Ext/Dig/Prep:	6/23/98	Result Units: mg/L		
		Analytical Result	Reported Detection Limits		
= 5.0)		<rdl< td=""><td>I</td></rdl<>	I		
		1.1 ~	1		
			1		
		<rdl< td=""><td>1</td></rdl<>	1		
			1		
t,≕ (,())		<rdl< td=""><td>l</td></rdl<>	l		
	cr: NA : SALTY   8-CG • Extraction   6/22/98 • Mercury 6/24/98 = 0.2) • Metais	SALTY BILL PIT CLOSURE 8-CG     Pextraction Procedure    6/22/98  Date Ext/Dig/Prep:    6/22/98  Date Ext/Dig/Prep:    6/24/98  Date Ext/Dig/Prep:    = 0.2)	er: NA SALTY BILL PIT CLOSURE 8-CG Extraction Procedure 6/22/98 Date Ext/Dig/Prep: $6/22/98Analytical ResultsNAMercury6/24/98$ Date Ext/Dig/Prep: $6/24/98Analytical ResultsNAMercury6/24/98$ Date Ext/Dig/Prep: $6/24/98Analytical ResultsRDL2 Metals6/25/98$ Date Ext/Dig/Prep: $6/23/98Analytical ResultsRDL1.1 \sim 1.0RDL1.1 \sim 1.0RDL$		

Accura Analytical Laboratory, Inc.

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<RDL = Less than Reported Detection Limit

Pg & of 23

Client Sample (D: 8-CG

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AALSample ID #: AB43368 Accura Project #: 16546-A

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43369 Accura Project #: 16546-A Client: Grace Oil Date Sampled: 5/7/98 Client Contact: MITCH MORRIS Date Received: 5/9/98 Client Project Number: NA Date Reported: 6/26/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL 9-CG Client Sample 1D: Method Ref: 1311 ANALYSIS: TCLP Extraction Procedure Date Analyzed: 6/22/98 Date Ext/Dig/Prep: 6/22/98 Result Units: Analyte Name Analytical Results Reported Detection Limits **TCLP** Extraction NA Ø ANALYSIS: TCLP Mercury Method Ref: 7470A Date Analyzed: 6/24/98 Date Ext/Dig/Prep: 6/24/98 Result Units: mg/L Reported Detection Limits Analyte Name Analytical Results <RDL Mercury (Reg Limit = 0.2) 0.01 ANALYSIS: TCLP Metals Method Ref: 3010A/6010B Result Units: mg/L Date Analyzed: 6/25/98 Date Ext/Dig/Prep: 6/23/98 Analyte Name Analytical Results Reported Detection Limits <RDL Arsenic (Reg Limit = 5.0) l 1.3 Barium (Reg Limit = 100.0) t Cadmium (Reg Limit = 1.0) <RDL l <RDL Chromium (Reg Limit = 5.0) 1 <RDL Lead (Reg Limit = 5.0) 1 Selenium (Reg Limit = 1.0) <RDL 1 <RDL Silver (Reg Limit = 5.0) L

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<RDL = Less than Reported Detection Limit

Pg 9 of 23

Client Sample ID: 9-CG

AALSample ID #: AB43369 Accura Project #: 16546-A

ACCURA LABS

Accura Sample ID #: AB43370

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Project #: 16546-A

				-	
Client: Grace Oil			Date	Sampled: 5/7/98	
Client Contact: MITCH			Date	Received: 5/9/98	
Client Project Number: 1		Date Reported: 6/26/98			
Client Project Name: SALTY BILL PIT CLOSURE				Sam	ple Matrix: SOIL
Client Sample ID:	10-CG				
ANALYSIS: TCLP Extraction Procedure				Method Ref:	1311
			6197109	Result Units:	1511
Date Analyzed: 6/2	22/98	Date Ext/Dig/Prep:	6/22/98	Result Onlis:	
Analyte Name			Analytical Result	<u>15 Re</u>	ported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCLP Me	ercury			Method Ref:	7470A
	24/98	Date Ext/Dig/Prop:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
Mercury (Reg Limit = 0.2	.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCLP Me	etals			Method Ref:	3010A/6010B
	25/98	Date Ext/Dig/Prep:	6/73/98	Result Units:	
Date Analyzed. 072	23/30	Date Ext Dig Trep.	G/22/70	Robut Onio.	.ug 1
Analyte Name			Analytical Resul	ts <u>R</u>	ported Detection Limits
Arsenic (Reg Limit = 5.0			<rdl< td=""><td></td><td>1</td></rdl<>		1
Barium (Reg Limit = 100			<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Limit = 1	-		<rdl< td=""><td></td><td>l</td></rdl<>		l
Chromium (Reg Limit =	• 5.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I
Lead (Reg Limit = $5.0$ )			<rdl <rdl< td=""><td></td><td>I</td></rdl<></rdl 		I
Selenium (Rcg Limit = 1 Silver (Reg Limit = 5.0)	-		<rdl< td=""><td></td><td>1</td></rdl<>		1
					-

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<RDL = Less than Reported Detection Limit

Pg 10 of 23

Client Sample ID: 10-CG

AALSample ID #: AB43370 Accura Project #: 16546-A

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6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43371			Accura Project #: 16546-A			
Client: Grace Oil			Date Sampled: 5/7/98			
Client Contact: MI	TCH MORR	IS	Date Received: 5/9/98			
Client Project Numb	er: NA			Date	e Reported: 6/26/98	
-				•		
Client Project Name: SALTY BILL PIT CLOSURE				San	ple Matrix: SOIL	
Client Sample ID:	11-CG	·····				
ANALYSIS: TCLP Extraction Procedure				Method Ref:	1311	
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:		
Analyte Name			Analytical Re	sults Re	ported Detection Limits	
TCLP Extraction			NA		0	
ANALYSIS: TCLP	Mercury			Method Ref:	7470A	
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L	
Analyte Name			Analytical Re-	sults Re	eported Detection Limits	
Mercury (Reg Limit	= 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01	
ANALYSIS: TCLP	Metals			Method Ref:	3010A/6010B	
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/23/98	Result Units:	mg/L	
Analyte Name			Analytical Re	sults Re	ported Detection Limits	
Arsenic (Reg Limit =	= 5.0)		<rdl< td=""><td></td><td>ł</td></rdl<>		ł	
Barium (Rcg Limit =			<rdl< td=""><td></td><td>1</td></rdl<>		1	
Cadmium (Reg Limi			<rdl< td=""><td></td><td>I</td></rdl<>		I	
Chromium (Reg Limit = 5.0)			<rdl< td=""><td></td><td>1</td></rdl<>		1	
Lead (Reg Limit = 5	•		<rdl< td=""><td></td><td>1</td></rdl<>		1	
Selenium (Rcg Limit	-		<rdl< td=""><td></td><td>1</td></rdl<>		1	
Silver (Reg Limit = :	5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1	

Accura Analytical Laboratory, Inc.

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<RDL - Less than Reported Detection Limit

Pg 11 of 23

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Client Sample ID: 11-CO

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AALSample ID #: AB43371 Accura Project #: 16546-A

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ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43372			Accura Project #: 16546-A			
Client: Grace Oil				Date Sampled: 5/7/98		
Client Contact: M	ITCH MORR	IS	Date Received: 5/9/98			
Client Project Number: NA Client Project Name: SALTY BILL PIT CLOSURE				Date Reported: 6/26/98		
				Sample Matrix: SOIL		
Client Sample ID:	12-CG					
ANALYSIS; TCL	P Extraction	Procedure	м	ethod Ref: 1311		
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98 R	esult Units:		
Analyte Name			Analytical Results	Reported Detection Limits		
TCLP Extraction			NA	0		
ANALYSIS: TCL	P Mercury		М	icthod Ref: 7470A		
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98 R	csult Units: mg/L		
Analyte Name			Analytical Results	<b>Reported Detection Limits</b>		
Mercury (Reg Limi	t = 0.2)		<rd>k</rd>	0.01		
ANALYSIS: TCL	P Metais		м	lethod Ref: 3010A/6010B		
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/23/98 R	csult Units: mg/L		
Analyte Name			Analytical Results	Reported Detection Limits		
Arsenic (Reg Limit	-		<rdl< td=""><td>1</td></rdl<>	1		
Barium (Reg Limit			<rdl< td=""><td>1</td></rdl<>	1		
Cadmium (Reg Lin Chromium (Reg Lin	•		<rdl <rdl< td=""><td>]</td></rdl<></rdl 	]		
Lead (Reg Limit =	•		<rdl< td=""><td>1</td></rdl<>	1		
				I		
Selenium (Reg Lim	n = 1.03					

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

<RDL = Less than Reported Detection Limit

Pg 12 of 23

Client Sample ID: 12-CG

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AALSample ID #: AB43372 Accura Project #: 16546-A

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### ACCURA ANALYTICAL LABORA WRY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477 FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved LABORATORY REPORT

Accura Sample ID #: AB43373	Accura Project #: 16546-A			
Client: Grace Oil	Date Sampled: 5/7/98			
Client Contact: MITCH MORRIS	Date Received: 5/9/98			
Client Project Number: NA	Date Reported: 6/26/98			
Client Project Name: SALTY BILL PIT CLOSURE	Sample Matrix: SQIL			
Client Sample ID: 13-CG				

Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:	•
Analyte Name			Analytical Re	sults Re	aported Detection Limits
TCLP Extraction			NA		0
<u>ANALYSIS: TCL</u>	P Mercury			Method Rof:	7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	<b>Result Units</b>	: mg/L
Analyte Name			Analytical Re	sults R	eported Detection Limits
Mercury (Reg Lim	it = 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCI	P Metals			Method Ref:	3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/23/98	Result Units	: mg/L
Analyte Name			Analytical Re	<u>sults R</u>	eported Detection Limits
Arsenic (Reg Limi	t = 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Barium (Reg Limit	t = 100.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Datumn (weg runn	nit = 1.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Lin					
			<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Lir	imit = 5.0)		<rdl <rdl< td=""><td></td><td>1</td></rdl<></rdl 		1
Cadmium (Reg Li Chromium (Reg Li	imit = 5.0) 5.0)		•		1 1

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Pg 13 of 23

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Client Sample ID: 13-CG

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AAI.Sample ID #: AB43373 Accura Project #: 16546-A

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### CCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross. Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43374			Accura Project #: 16546-A		
Client: Grace Oil			Date Sampled: 5/7/98		
Client Contact: MITO	CH MORRIS	5	Date Received: 5/9/98		
Client Project Number: NA				Date	Reported: 6/26/98
Client Project Name:		ILL PIT CLOSURE			ple Matrix: SOIL
Client Sample ID:	14-CG			Dum	
Chefft Sample 10.	14+CG			. <u></u>	
ANALYSIS; TCLP E	xtraction P	rocedure		Method Ref:	1311
Date Analyzed: 6	5/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:	
Analyte Name			Analytical Resul	ts Re	ported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCLP N	lercury			Method Ref:	7470A
Date Analyzed:	5/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Resul	ta <u>Re</u>	ported Detection Limits
Mercury (Reg Limit =	0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCLP N	fetals			Method Ref:	3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/23/98	Result Units:	mg/L
Analyte Name			Analytical Resul	its <u>Re</u>	ported Detection Limits
Arsenic (Reg Limit = 5	5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Barium (Reg Limit = 1	-		١.0		1
Cadmium (Reg Limit =		. •	<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Limit	-		<rdl< td=""><td></td><td>[</td></rdl<>		[
Lead (Reg Limit = $5.0$ )			<rdl< td=""><td></td><td>1</td></rdl<>		1
Selenium (Reg Limit			<rdl< td=""><td></td><td></td></rdl<>		
Silver (Reg Limit = 5.0	<i>u)</i>		<rdl< td=""><td></td><td>1</td></rdl<>		1

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Accura Analytical Laboratory, Inc.

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<RDL = Less than Reported Detection Limit

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Pg 14 of 23

Client Sample ID: 14-CG

AALSample ID #: AB43374 Accura Project #: 16546-A

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# ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477 FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sa	mple ID #:	AB43375	Accu	ira Project	#: 16546-A
Client: Grace Oil			Date Sampled: 5/7/98		
Client Contact: M	ITCH MORRI	S	Date Received: 5/9/98		
Client Project Number: NA					Reported: 6/26/98
Client Project Name	SALTY B	ILL PIT CLOSURE			ple Matrix: SOIL
Client Sample ID:	15-CG	_		<b>~</b>	
ANALYSIS: TCL	P Extraction P	roredure		Method Ref:	
Date Analyzed:	6/22/98		6 100 100		
Date Analyzou,	0/22/90	Date Ext/Dig/Prep:	6/22/98	Result Units:	
Analyte Name			Analytical Result	ts <u>Re</u>	ported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCU	P Mercury			Method Ref:	7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Result	ts <u>Re</u>	ported Detection Limits
Mercury (Reg Limit	. = 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCL	P Metals			Method Ref:	3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/23/98	Result Units:	mg/L
Analyte Name			Analytical Result	s <u>Rc</u>	ported Detection Limits
Arsenic (Reg Limit			<rdl< td=""><td></td><td>1</td></rdl<>		1
Barium (Reg Limit			<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Limit = 1.0) Chromium (Reg Limit = 5.0)			<rdl< td=""><td></td><td>1</td></rdl<>		1
Lead (Reg Limit = 5			<rdl <rdl< td=""><td></td><td>I</td></rdl<></rdl 		I
Selenium (Reg Limi			<rdl <rdl< td=""><td></td><td>1</td></rdl<></rdl 		1
Silver (Reg Limit =	•		<rdl< td=""><td></td><td>l</td></rdl<>		l

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

<RDL = Less than Reported Detection Limit

Pg 15 of 23

Client Sample ID: 15-CG

AALSample ID #: AB43375 Accura Project #: 16546-A

#### CURA ANALYTICAL LABORA TORY. INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

NC Certification # 483 SC Certification # 98015 FL Certification # E87429 USACE-MRD Approved LABORATORY REPORT

Accura Sample ID #: AB43376 Accura Project #: 16546-A Client: Grace Oil Date Sampled: 5/7/98-Client Contact: MITCH MORRIS Date Received: 5/9/98 Client Project Number: NA Date Reported: 6/26/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL 16-CC **Client Sample 1D:** Method Ref: 1311 ANALYSIS: TCLP Extraction Procedure Date Ext/Dig/Prep: 6/22/98 Date Analyzed: 6/22/98 Result Units: Analytical Results Reported Detection Limits Analyte Name NA 0 **TCLP** Extraction ANALYSIS: TCLP Mercury Method Ref: 7470A Date Analyzed: 6/24/98 Date Ext/Dig/Prep: 6/24/98 Result Units: mg/L Analytical Results Reported Detection Limits Analyte Name <RDL 0.01 Mercury (Reg Limit = 0.2) Method Ref: 3010A/6010B ANALYSIS: TCLP Metals Date Ext/Dig/Prep: Result Units: mg/L Date Analyzed: 6/25/98 6/23/98 Analytical Results Reported Detection Limits Analyte Name <RDL 1 Arsenic (Reg Limit = 5.0) <RDL 1 Barium (Reg Limit = 100.0) Cadmium (Reg Limit = 1.0) <RDL ۱ <RDL Ţ Chromium (Reg Limit = 5.0) <RDL Lead (Reg Limit = 5.0) <RDL Scienium (Reg Limit = 1.0) <RDL Silver (Reg Limit = 5.0)

ccura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

<RDL = Less than Reported Detection Limit

Pg 16 of 23

Client Sample ID: 16-CG

AALSample ID #: AB43376 Accura Project #: 16546-A

### CCURA ANALYTICAL LABONATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved LABORATORY REPORT

Accura Sample ID #: AB43377			Accura Project #: 16546-A			
Client: Grace Oil			Date Sampled: 5/7/98			
Client Contact: MI	TCH MORRIS	S	Date Received: 5/9/98			
Client Project Number	er: NA			Date	Reported: 6/26/98	
Client Project Name: SALTY BILL PIT CLOSURE				Sam	ple Matrix: SOIL	
Client Sample LD:	17-CG		**		•···········	
ANALYSIS: TCLP Extraction Procedure				Method Ref:	1311	
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:		
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits	
TCLP Extraction			NA		0	
ANALYSIS: TCLP	Mercury			Method Ref.	7470A	
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L	
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits	
Mercury (Reg Limit	= 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01	
ANALYSIS: TCLP	Metals			Method Ref:	3010A/6010B	
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/23/98	Result Units:	mg/L	
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits	
Arsenic (Reg Limit =	•		<rdl< td=""><td></td><td>1</td></rdl<>		1	
Barium (Reg Limit = 100.0)			1.3 <rdl< td=""><td></td><td>1</td></rdl<>		1	
Cadmium (Reg Limit = 1.0) Chromium (Reg Limit = 5.0)			<rdl< td=""><td></td><td>1</td></rdl<>		1	
Lead (Reg Limit = 5			<rdl< td=""><td></td><td>1</td></rdl<>		1	
Selenium (Rcg Limi	t 1.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1	
Silver (Reg Limit =	5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

<RDL - Less than Reported Detection Limit

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Pg 17 of 23

Client Sample ID: 17-CG

AALSample ID #: AB43377 Accura Project #: 16546-A
# ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sai	nple ID #:	AB43378	A	ccura Pro	ject #: 16546-A
Client: Grace Oil					Date Sampled: 5/7/98
Client Contact: MI	TCH MORR	15			Date Received: 5/9/98
Client Project Number: NA					Date Reported: 6/26/98
Client Project Name:		BILL PIT CLOSURE			Sample Matrix: SOIL
•					Sample Marix, SOIL
Client Sample ID:	18-CG				
ANALYSIS: TCLP	Extraction	Procedure		Method	Ref:  3
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result	Units:
Analyte Name			Analytical Re	esults	Reported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCLP	Mercury			Method	I Ref: 7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result	Units: mg/L
Analyte Name			Analytical Re	esults	Reported Detection Limits
Mercury (Reg Limit	= 0.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCLP	Metals			Method	i Ref: 3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/23/98	Result	Units: mg/L
Analyte Name			Analytical Re	esults	Reported Detection Limits
Arsenic (Reg Limit =	= 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Barium (Reg Limit =	•		<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Limi			<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Lin			<rdl< td=""><td></td><td>I</td></rdl<>		I
Lead (Reg Limit = 5			<rdl< td=""><td></td><td>1</td></rdl<>		1
Selenium (Reg Limi	-		<rdl< td=""><td></td><td>1</td></rdl<>		1
Silver (Reg Limit =	ט.כ)		<rdl< td=""><td></td><td>,</td></rdl<>		,

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

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Pg 18 of 23

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Client Sample ID: 18-CG

AALSample ID #: AB43378 Accura Project #: 16546-A

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#### 770 449 5477 P.06

# ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

PL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved LABORATORY REPORT

Accura Sar	nple ID #:	AB43379	Асси	ra Project #: 16546-A
Client: Grace Oil				Date Sampled: 5/7/98
Client Contact: MI	TCH MORRIS	5		Date Received: 5/9/98
Client Project Number	er; NΛ			Date Reported: 6/26/98
Client Project Name:	SALTY B	ILL PIT CLOSURE		Sample Matrix: SOIL
Client Sample ID:	19-CG			·
	•••••		· • · · · ·	······································
ANALYSIS: TCLP	Extraction P	rocedure		Method Ref: 1311
Date Analyzed:	6/22/98	Date Ext/Dig/Prop:	6/22/98	Result Units:
Analyte Name			Analytical Result	ts Reported Detection Limits
TCLP Extraction			NA	0
ANALYSIS: TCLP	Мегсигу			Method Ref: 7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units: mg/L
Analyte Name			Analytical Resul	ts Reported Detection Limits
Mercury (Reg Limit	= 0.2)		<rdl< td=""><td>0.01</td></rdl<>	0.01
ANALYSIS: TCLP	Metals			Method Ref: 3010A/6010B
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/ <b>98</b>	Result Units: mg/L
Analyte Name			Analytical Resul	ts <u>Reported Detection Limit</u>
Arsenic (Reg Limit =	= 5.0)		<rdl< td=""><td>1</td></rdl<>	1
Barlum (Reg Limit =			<rdl< td=""><td>1</td></rdl<>	1
Cadmium (Reg Limi			<rdl< td=""><td>I</td></rdl<>	I
Chromium (Reg Lim			<rdl< td=""><td>1</td></rdl<>	1
Lead (Reg Limit = 5 Selenium (Reg Limit			<rdl <rdl< td=""><td>l</td></rdl<></rdl 	l
Silver (Reg Limit = :	<i>F</i>		<rdl< td=""><td>1</td></rdl<>	1
Curren Curren Prime -			A. 1984	-

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

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Pg 19 of 23

Client Sample ID: 19-CG

AALSample ID #: AB43379 Accura Project #: 16546-A

## ACCURA ANALYTICAL LABON TORY, INC.

5017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved LABORATORY REPORT

Accura Sample ID #: AB43380 Accura Project #: 16546-A Client: Grace Oil Date Sampled: 5/7/98 Date Received: 5/9/98 Client Contact: MITCH MORRIS Date Reported: 6/26/98 Client Project Number: NA SALTY BILL PIT CLOSURE Sample Matrix: SOIL Client Project Name: **Client Sample ID:** 20-CG ANALYSIS: TCLP Extraction Procedure Method Ref: 1311 Date Ext/Dig/Prep: 6/22/98 Result Units: Date Analyzed: 6/22/98 Analytical Results Reported Detection Limits Analyte Name **TCLP** Extraction NA 0 Method Ref: 7470A ANALYSIS: TCLP Mercury Date Ext/Dig/Prep: 6/24/98 Result Units: mg/L Date Analyzed: 6/24/98 Reported Detection Limits Analytical Results Analyte Name <RDL 0.01 Mercury (Reg Limit = 0.2) Method Ref: 3010A/6010B ANALYSIS: TCLP Metals Date Analyzed: 6/25/98 Date Ext/Dig/Prep: 6/24/98 Result Units: mg/L Analytical Results **Reported Detection Limits** Analyte Name <RDL 1 Arsenic (Reg Limit = 5.0) <RDL 1 Barium (Reg Limit = 100.0) Cadmium (Reg Limit = 1.0) <RDL 1 <RDL Chromium (Reg Limit = 5.0) <RDL Lead (Reg Limit = 5.0) <RDL Scienium (Reg Limit = 1.0) <RDL Silver (Reg Limit = 5.0) ł

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

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<RDL = Less than Reported Detection Limit

Pg 20 of 23

Client Sample ID: 20-CG

AALSample ID #: AB43380 Accura Project #: 16546-A

#### ACCURA LABS

770 449 5477 P.08

## CURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

SC Certification # 98015 USACE-MRD Approved NC Certification # 483 FL Certification # E87429

LABORATORY REPORT

Accura Project #: 16546-A Accura Sample ID #: AB43381 Date Sampled: 5/7/98 Client: Grace Oil Date Received: 5/9/98 Client Contact: MITCH MORRIS Date Reported: 6/26/98 Client Project Number: NA SALTY BILL PIT CLOSURE Sample Matrix: SOIL Client Project Name: 21-CG **Client Sample 1D:** Method Ref: 1311 ANALYSIS: TCLP Extraction Procedure Date Ext/Dig/Prep: 6/22/98 **Result Units:** 6/22/98 Date Analyzed: Reported Detection Limits Analyte Name Analytical Results NA ٥ TCLP Extraction Method Ref: 7470A ANALYSIS: TCLP Mercury 6/24/98 Date Ext/Dig/Prep: 6/24/98 Result Units: mg/L Date Analyzed: Reported Detection Limits Analytical Results Analyte Name 0.01 <RDL Mercury (Reg Limit = 0.2) Method Ref: 3010A/6010B ANALYSIS: TCLP Metals Date Ext/Dig/Prep: 6/24/98 Result Units: mg/L Date Analyzed: 6/25/98 Reported Detection Limits Analytical Results Analyte Name <RDL 1 Arsenic (Reg Limit = 5.0) <RDL 1 Barium (Reg Limit = 100.0) <RDL ۲ Cadmium (Reg Limit = 1.0) <RDL Chromium (Reg Limit = 5.0) <RDL Lead (Reg Limit = 5.0) <RDL Selenium (Reg Limit = 1.0) <RDL Silver (Reg Limit = 5.0)

ccura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

<RDL = Less than Reported Detection Limit

Pg 21 of 23

Client Sample ID: 21-CG

#### 770 449 5477 P.09

# **WCCURA ANALYTICAL LABO**

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # £87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved LABORATORY REPORT

Accura Sampl	le ID #: A	B43382	Accu	ra Project #	⊧: 16546-A
Client: Grace Oil				Date	Sampled: 5/7/98
Client Contact: MITCH	H MORRIS			Date	Received: 5/9/98
Client Project Number: NA				Date	Reported: 6/26/98
Client Project Name:		LBITCLOSTIRE			ple Matrix: SOIL
•		L FII CLUGURE		يسفر	
Client Sample ID:	22-CG				
ANALYSIS: TCLP Ex	traction Pro	çedure		Method Ref:	1311
Date Analyzed: 6/2	22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:	
Analyte Name			Analytical Result	<u>is Re</u>	ported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCLP Me	ercury			Method Ref:	7470A
Date Analyzed: 6/2	24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Result	<u>is Re</u>	ported Detection Limits
Mercury (Reg Limit = 0.	.2)		<rdl< td=""><td></td><td>0.01</td></rdl<>		0.01
ANALYSIS: TCLP Me	etals			Method Ref:	3010A/6010B
Date Analyzed: 6/	/25/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
Arsenic (Reg Limit = 5.0	0)		<rd><rd>RDL</rd></rd>		I I
Barium (Reg Limit = 10)	•		<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Limit =	1.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Limit =	= 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Lead (Reg Limit = 5.0)			<rdl< td=""><td></td><td>1</td></rdl<>		1
Selenium (Reg Limit = 1			<rdl< td=""><td></td><td>1</td></rdl<>		1
Silver (Reg Limit = 5.0)	)		<rdl< td=""><td></td><td>1</td></rdl<>		1

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

<RDL -- Less than Reported Detection Limit

Pg 22 of 23

Client Sample ID: 22-CG

AALSample ID #: AB43382 Accura Project #: 16546-A

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

### MEMORANDUM OF MEETING OR CONVERSATION

Time Date Telephone 6-29-98 Personal 3:20 Originating Party Other Parties Aita Salty Bill Mich Morris Martine Kieling Morris Subject read ling To day For Hwing Fihal Report in Has Discussion Reques+ Ateas ex tend LLe his to Conversation gran tel exten because have. Because of So Close and the Confusion ane to Sample For Conclusions or Agreements Signed Distribution Martyn.



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

June 18, 1998

### <u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. P.326-936-457</u>

Ms. Corinne B. Grace P.O. Box 1418 3722 National Parks Hwy. Carlsbad, N.M. 88220

### Re: Salty Bills Water Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Dear Ms. Grace:

The New Mexico Oil Conservation Division (OCD) received the Salty Bill Salt Water Disposal Facility's (Salty Bill) letter and analytical results dated June 16, 1998 concerning the above-referenced water disposal facility remediation. As required in the OCD letter dated December 12, 1997, the OCD requires the following additional information in order to evaluate the ongoing remediation at Salty Bill.

- 1. A location map of the facility showing the sample locations CG-1 to CG-22, Pump Station 1 to 4, and T-1 to T-7;
- 2. The sample depth below ground surface of each sample location,
- 3. A copy of the chain of custody for all laboratory samples;
- 4. TCLP metal analytical results for As, Ba, Cd, Cr, Pb, Ag (OCD has the Hg and Se results);and
- 5. Volatile organic compound analytical results by EPA method 8240.

If you have any additional questions, please contact me at (505) 827-7153.

Sincerely,

Martyn g July

Martyne J. Kieling Environmental Geologist xc: Artesia OCD Office STATE OF NEW MEXICO OIL CONSERVATION

### MEMORANDUM OF MEETING OR CONVERSATION

Time Date Telephone 6-18-98 Personal 3:53 Other Parties Originating Party Mitch Morris Martyne Kieling Subject Sally Bill Analysis Discussion Need Additional Analytical As Per December 12, 1957 Letter, Mitch Askid me to write letter Detailing what was receded Conclusions or Agreements Letter 6-18-98 mentout ---Signed **Distribution** Martyn 24

13 CG Benzere 5.9 ng/kg 15 CG Tolum 15 mg/kg Xylene 45 mg/kg 18 CG Tolune 14 ng/kg X ylenes29 ng / hg Chloride Range 80,000 - 20,000 mylkg No Hy in any Sample No Gasolie Renge Organic method 5030 A/8015B

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4 7	200 37	10		Ţ -)		960	200	
8	1400	200		T-2		2800	200	
9	940	200		- 3		320	50	
. /0	720	200		4	·	320	50	
11	34	L <sub>O</sub>	_	5		270	SD	
12	360	100		6		690	100	
13	350	50		۵ ۲		1500	200	
15	1200 780	200 200		(				
7 ו	130	10						
18	860	200						
19	310	50			,			
20	ISD	10						
21	1000	200						
22	560	200						

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 $5 | \frac{3}{4} | \frac{3}{34} = 976 \sqrt{84} \sqrt{122}$   $5 | \frac{3}{4} | \frac{3}{70} = 976 \sqrt{84} \sqrt{1400}$   $5 | \frac{3}{4} | \frac{3}{70} = 976 \sqrt{84} \sqrt{1400}$   $1 | \frac{1900}{100}$   $1 | \frac{1900}{100}$  $1 | \frac{3}{200} | \frac{1}{100} | \frac{1}{200} | \frac{1}{100} | \frac{1$ 

Corinne B. Grace POST OFFICE BOX 1418 CARLSBAD, NEW MEXICO 88220

(505) 887-5581

RECEIVED

JUN 1 7 1998

Environmental Bureau Oil Conservation Division

June 16, 1998

Sent via Federal Express

Martyne J. Kieling Environmental Geologist Oil Conservation Division 2040 South Pacheco Street Santa Fe, NM 87505

> Re: Soil Sample Lab Reports Salty Bill Water Disposal Facility Section 36, Township 22 South, Range 26 East.

Dear Martyne:

Enclosed find the above captioned reports. If you have any further questions, please feel free to give me a call.

Very truly yours,

Mitchell Morris

MM Enclosures

#### ANALYTICAL LABORATOR INC. **A(**

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477 SC Certification # 98015 USACE-MRD Approved

FL Certification # E87429 NC Certification # 483

LABORATORY REPORT

Accura Sar	nple ID #:	AB43776	Accur	ra Project #	<b>#: 16614</b>
Client: Grace Oil				Date	Sampled: 5/14/98
Client Contact: MI	TCH MORRIS	5		Date	Received: 5/15/98
Client Project Number	er: NA			Date	Reported: 5/20/98
Client Project Name:	SALTY B	ILL PIT CLOSURE		Sam	ple Matrix: SOIL
Client Sample ID:	PUMP	SUMP #1			
ANALYSIS: BTEX				Method Ref:	5030A/8021B
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/17/98	Result Units:	ug/Kg
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limits
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Ethyl benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Toluene			<rdl 21</rdl 		5
Xylenes			21		5
ANALYSIS: Chlor	ide in Soil			Method Ref:	325.3M
Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98	Result Units:	mg/Kg
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limit
Chloride			10,000		1000
ANALYSIS: Diesel	Range Orga	nics (DRO)		Method Ref:	3550B/8015B
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/Kg
Analyte Name			Analytical Result	<u>s Re</u>	eported Detection Limit
Diesel Range Organi	ics (DRO)		4,500		1000
ANALYSIS: Gasol	ine Range Or	ganics (GRO)		Method Ref:	5030A/8015B -
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/17/98	Result Units:	mg/kg
Analyte Name			Analytical Result	ts <u>R</u> e	eported Detection Limit
Gasoline Range Org	anics		<rdl< td=""><td></td><td>10</td></rdl<>		10
ANALYSIS: Metal	s			Method Ref:	3050B/6010B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	mg/Kg
Analyte Name			Analytical Resul		eported Detection Limit
ACCURA ANALYTICA	LABORATOR	XY, INC. <rdl< td=""><td>= Less than Reported 1</td><td></td><td>Pglof2</td></rdl<>	= Less than Reported 1		Pglof2
Client Sample ID: PU	JMP SUMP #1		AALSample ID #	: AB43776	Accura Project #: 16614

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Selenium			21		5
ANALYSIS: Metal	s - Mercury	<u> </u>		Method Ref:	7471A
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	EX QC Surrog	ates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/17/98	Result Units:	%
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
1,4-Difluorobenzene	2		95		0
4-Bromofluorobenze			119		0
ANALYSIS: X DF		ates (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	
Analyte Name			Analytical Resul	lts <u>Re</u>	eported Detection Limits
o-Terphenyl			See narrati	ve	0
ANALYSIS: X GI	RO QC Surrog	ates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/17/98	Result Units:	%
Analyte Name			Analytical Resu	lts Re	eported Detection Limits
1,4-Difluorobenzen	e		73		0
4-Bromofluorobenz	ene		69		0

Client Sample ID: PUMP SUMP #1

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AALSample ID #: AB43776 Accura Project #: 16614

# ACCUR ANALYTICAL LABORATOR, INC

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

#### LABORATORY REPORT

#### Accura Sample ID #: AB43777 Accura Project #: 16614 Client: Grace Oil Date Sampled: 5/14/98 Client Contact: MITCH MORRIS Date Received: 5/15/98 Client Project Number: NA Date Reported: 5/20/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL **Client Sample ID:** PUMP SUMP #2 ANALYSIS: BTEX Method Ref: 5030A/8021B Date Analyzed: 5/18/98 Date Ext/Dig/Prep: 5/18/98 Result Units: ug/Kg Analyte Name **Reported Detection Limits** Analytical Results Benzene 5 <RDL Ethyl benzene <RDL 5 Toluene 5 <RDL **X**ylenes <RDL 5 **ANALYSIS:** Chloride in Soil Method Ref: 325.3M Date Ext/Dig/Prep: 5/19/98 Date Analyzed: 5/19/98 Result Units: mg/Kg Analyte Name Reported Detection Limits Analytical Results Chloride 8,800 1000 Method Ref: 3550B/8015B ANALYSIS: Diesel Range Organics (DRO) Date Analyzed: 5/17/98 Date Ext/Dig/Prep: 5/15/98 Result Units: mg/Kg Analyte Name Analytical Results Reported Detection Limits Diesel Range Organics (DRO) 300 50 Method Ref: 5030A/8015B ANALYSIS: Gasoline Range Organics (GRO) Date Analyzed: 5/18/98 Date Ext/Dig/Prep: 5/18/98 Result Units: mg/kg Analyte Name Analytical Results Reported Detection Limits 10 **Gasoline Range Organics** <RDL **ANALYSIS: Metals** Method Ref: 3050B/6010B Date Analyzed: 5/18/98 Date Ext/Dig/Prep: 5/18/98 Result Units: mg/Kg Analyte Name Analytical Results Reported Detection Limits ACCURA ANALYTICAL LABORATORY, INC. <RDL = Less than Reported Detection Limit Pg 3 of 24 Client Sample ID: PUMP SUMP #2 AALSample ID #: AB43777 Accura Project #: 16614

Selenium			25		5
ANALYSIS: Metal	s - Mercury			Method Ref:	7471A
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
<u>ANALYSIS: X_BT</u>	<b>EX QC Surro</b>	gates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resu	lts <u>Re</u>	ported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenzene			99 119		0 0
ANALYSIS: X DI	RO QC Surrog	ates (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resu	<u>lts Re</u>	ported Detection Limits
o-Terphenyl			89		0
ANALYSIS: X G	RO QC Surrog	ates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resu	<u>lts Re</u>	ported Detection Limits
1,4-Difluorobenzen 4-Bromofluorobenz			76 63		0 0

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Client Sample ID: PUMP SUMP #2

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AALSample ID #: AB43777 Accura Project #: 16614

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# ACCUR

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

Client: Grace Oil   Date Sampled: 5/14/98     Client: Contact: MITCH MORRIS   Date Received: 5/15/98     Client Project Number: NA   Date Reported: 5/20/98     Client Project Name: SALTY BILL PIT CLOSURE   Sample Matrix: SOIL     Client Sample ID: PUMP SUMP #3   PUMP SUMP #3     ANALYSIS: BTEX   Method Ref: 5030A/8021B     Date Analyzed: 5/18/98   Date Ext/Dig/Prep: 5/18/98   Result Units: ug/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Benzene   - <rdl< td="">   5     Toluene   <rdl< td="">   5     Analytes: Chloride in Soil   Method Ref: 325.3M   S     Date Analyzed:   5/19/98   Date Ext/Dig/Prep: 5/19/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Date Analyzed:   5/16/98   Date Ext/Dig/Prep: 5/15/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   110   10     Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   110   10     Analyte Name   Analytical Resu</rdl<></rdl<>	Accura Sa	ample ID #:	AB43778	Accura	a Project #	<b>#: 16614</b>
Client Project Number:   NA   Date Reported: 5/20/98     Client Project Name:   SALTY BILL PIT CLOSURE   Sample Matrix: SOIL     Client Sample ID:   PUMP SUMP #3   Method Ref: 5030A/8021B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   S/18/98   Result Units:   ug/Kg     Analyte Name   Analytical Results   Reported Detection Limits   g     Benzene   < RDL   5     Chloride   S/18/98   Date Ext/Dig/Prep:   S/19/98   Result Units:   ug/Kg     Analyte Name     S   S   S     Date Analyzed:   5/19/98   Date Ext/Dig/Prep:   S/19/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits   Method Ref:   3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits   Mg/Kg     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits	Client: Grace Oil				Date	Sampled: 5/14/98
Client Project Name:   SALTY BILL PIT CLOSURE   Sample Matrix: SOIL     Client Sample ID:   PUMP SUMP #3     ANALYSIS:   BTEX   Method Ref:   5030A/8021B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   ug/kg     Analytic Name   Analytical Results   Reported Detection Limits   Genome   S     Benzene     ARDL   S     Stylenes    Reported Detection Limits   S     ANALYSIS:   Chloride in Soil   Method Ref:   325.3M     Date Analyzed:   5/19/98   Date Ext/Dig/Prep:   5/19/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Chloride   \$/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits   mg/Kg     Date Analyzed:   \$/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits   Mg/Kg     Date Analyzed:   \$/18/98   Dat	Client Contact: M	IITCH MORRIS	5		Date	Received: 5/15/98
Client Sample ID:   PUMP SUMP #3     ANALYSIS: BTEX	Client Project Num	ber: NA			Date	Reported: 5/20/98
ANALYSIS: BTEX	Client Project Name	e: SALTY B	ILL PIT CLOSURE		Sam	ple Matrix: SOIL
Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   ug/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Benzene <rdl< td="">   5     Ethyl benzene   <rdl< td="">   5     Stylenes   <rdl< td="">   5     ANALYSIS: Chloride in Soil   Method Ref:   325.3M     Date Analyzed:   5/19/98   Date Ext/Dig/Prep:   5/19/98     Analyte Name   Analytical Results   Reported Detection Limits     Chloride   \$,500   1000     ANALYSIS:   Diesel Range Organics (DRO)   Method Ref:   3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits   Diesel Range Organics (DRO)   110   10     Analyte Name   Analytical Results   Reported Detection Limits   mg/kg     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits   Gasoline Range Organics (GRO)   10   10 <th>Client Sample ID:</th><th>PUMP S</th><th>SUMP #3</th><th></th><th></th><th></th></rdl<></rdl<></rdl<>	Client Sample ID:	PUMP S	SUMP #3			
Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   ug/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Benzene <rdl< td="">   5     Ethyl benzene   <rdl< td="">   5     Stylenes   <rdl< td="">   5     ANALYSIS: Chloride in Soil   Method Ref:   325.3M     Date Analyzed:   5/19/98   Date Ext/Dig/Prep:   5/19/98     Analyte Name   Analytical Results   Reported Detection Limits     Chloride   \$,500   1000     ANALYSIS: Diesel Range Organics (DRO)   Method Ref:   3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits   Diesel Range Organics (DRO)   110   10     Analyte Name   Analytical Results   Reported Detection Limits   mg/kg     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits   Gasoline Range Organics (GRO)   10     Date Analyz</rdl<></rdl<></rdl<>	ANALYSIS: RTE	x		Ν	Method Ref	5030A/8021B
Benzene <rdl< td="">   5     Ethyl benzene   <rdl< td="">   5     Toluene   <rdl< td="">   5     Xylenes   <rdl< td="">   5     ANALYSIS: Chloride in Soil   Method Ref: 325.3M   3     Date Analyzed:   5/19/98   Date Ext/Dig/Prep:   5/19/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Chloride   \$,500   1000     ANALYSIS: Diesel Range Organics (DRO)   Method Ref: 3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   110   10     ANALYSIS: Gasoline Range Organics (GRO)   110   10     Analyte Name   Analytical Results   Reported Detection Limits     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics   <rdl< td="">   10     ANALYSIS: Metals   Date Ext/Dig/Prep:   5/18/98   Result Unit</rdl<></rdl<></rdl<></rdl<></rdl<>			Date Ext/Dig/Prep:			
Benzene <rdl< td="">   5     Ethyl benzene   <rdl< td="">   5     Toluene   <rdl< td="">   5     Xylenes   <rdl< td="">   5     ANALYSIS: Chloride in Soil   Method Ref: 325.3M   3     Date Analyzed:   5/19/98   Date Ext/Dig/Prep:   5/19/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Chloride   \$,500   1000     ANALYSIS: Diesel Range Organics (DRO)   Method Ref: 3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   110   10     ANALYSIS: Gasoline Range Organics (GRO)   110   10     Analyte Name   Analytical Results   Reported Detection Limits     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics   <rdl< td="">   10     ANALYSIS: Metals   Date Ext/Dig/Prep:   5/18/98   Result Unit</rdl<></rdl<></rdl<></rdl<></rdl<>	Analyte Name			Analytical Results	Re	ported Detection Limits
Ethyl benzene <rdl< td="">   5     Toluene   <rdl< td="">   5     Xylenes   <rdl< td="">   5     ANALYSIS: Chloride in Soil  </rdl<></rdl<></rdl<>						
Xylenes $\langle RDL$ 5ANALYSIS: Chloride in SoilDate Ext/Dig/Prep:5/19/98Result Units:mg/KgDate Analyzed:5/19/98Date Ext/Dig/Prep:5/19/98Result Units:mg/KgAnalyte NameAnalytical ResultsReported Detection LimitsChloride $\$,500$ 1000ANALYSIS: Diesel Range Organics (DRO)Method Ref:3550B/8015BDate Analyzed: $5/16/98$ Date Ext/Dig/Prep: $5/15/98$ Result Units:mg/KgAnalyte NameAnalytical ResultsReported Detection LimitsDate Analyzed: $5/18/98$ Date Ext/Dig/Prep: $5/18/98$ Result Units:mg/kgAnalyte NameAnalytical ResultsReported Detection Limits10ANALYSIS: MetalsDate Ext/Dig/Prep: $5/18/98$ Result Units:mg/kgGasoline Range Organics $S/18/98$ Result Units:mg/kgAnalyte Name $< RDL$ 1010ANALYSIS: MetalsDate Ext/Dig/Prep: $5/18/98$ Result Units:mg/kgDate Analyzed: $5/18/98$ Date Ext/Dig/Prep: $5/18/98$ Result Units:mg/kgAnalyte Name $< RDL$ 101010Analyte Name $< Ralytical Results$ Reported Detection LimitsDate Analyzed: $5/18/98$ Date Ext/Dig/Prep: $5/18/98$ Result Units:mg/kgAnalyte Name $< RDL = Less than Reported Detection Limits$						
ANALYSIS: Chloride in Soil   Method Ref: 325.3M     Date Analyzed:   5/19/98   Date Ext/Dig/Prep:   5/19/98   Result Units:   mg/Kg     Analyte Name   Analyteal Results   Reported Detection Limits     Chloride   8,500   1000     ANALYSIS: Diesel Range Organics (DRO)   Method Ref: 3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   Method Ref: 3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   110   10     Analyte Name   Analytical Results   Reported Detection Limits     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits   10     Analyte Name   Analytical Results   Reported Detection Limits     Date Analyzed:   5/18/98   Result	Toluene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Date Analyzed:   5/19/98   Date Ext/Dig/Prep:   5/19/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Chloride   8,500   1000     ANALYSIS: Diesel Range Organics (DRO)   Method Ref:   3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits   mg/Kg     Diesel Range Organics (DRO)   110   10   10     ANALYSIS: Gasoline Range Organics (GRO)   110   10   10     Analyte Name   S/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   S/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   S/18/98   Date Ext/Dig/Prep:   S/18/98   Result Units:   mg/kg     Analyte Name    S/18/98   Result Units:   mg/kg     Analyte Name    S/18/98   Result Units:   mg/kg     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   S/18/98   Result Units:	Xylenes			<rdl< td=""><td></td><td>5</td></rdl<>		5
Analyte Name   Analytical Results   Reported Detection Limits     Chloride   8,500   1000     ANALYSIS: Diesel Range Organics (DRO)   Method Ref: 3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:     5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   110   10     ANALYSIS: Gasoline Range Organics (GRO)   110   10     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics <rdl< td="">   10     ANALYSIS: Metals   Method Ref: 3050B/6010B   10     Date Analyzed:   5/18/98   Result Units:   mg/Kg     Analyte Name   S18/98   Result Units:   mg/Kg     Analyte Name   S18/98   Result Units:   mg/Kg     Analyte Name   S18/98   Reported Detection Limits</rdl<>	ANALYSIS: Chic	oride in Soil		1	Method Ref:	325.3M
Chloride   8,500   1000     ANALYSIS: Diesel Range Organics (DRO)   Method Ref: 3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   110   10     ANALYSIS: Gasoline Range Organics (DRO)   110   10     Analyte Name   Method Ref: 5030A/8015B     Date Analyzed:   5/18/98   Result Units: mg/kg     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics <rdl< td="">   10     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics   <rdl< td="">   10     Analyte Name   S/18/98   Result Units: mg/kg     Date Analyzed:   5/18/98   Results: mg/kg     Analyte Name   S/18/98   Result Units: mg/</rdl<></rdl<>	Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98	Result Units:	mg/Kg
ANALYSIS: Diesel Range Organics (DRO)   Method Ref: 3550B/8015B     Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   110   10     ANALYSIS: Gasoline Range Organics (GRO)   Method Ref: 5030A/8015B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics <rdl< td="">   10     ANALYSIS: Metals   Method Ref: 3050B/6010B   10     ANALYSIS: Metals   Method Ref: 3050B/6010B   10     Date Analyzed:   5/18/98   Sesult Units:   mg/kg     Analyte Name   S/18/98   Result Units:   mg/kg     Analyte Name   S/18/98   Result Units:   mg/kg     Analyte Name   S/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits     Analyte Name   S/1</rdl<>	Analyte Name			Analytical Results	Re	eported Detection Limits
Date Analyzed:   5/16/98   Date Ext/Dig/Prep:   5/15/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   110   10     ANALYSIS: Gasoline Range Organics (GRO)   Method Ref:   5030A/8015B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics     10     ANALYSIS: Metals   Reported Detection Limits   10     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/Kg     Analyte Name   Sile Ext/Dig/Prep:   5/18/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     Analyte Name   Analytical Results   Reported Detection Limits     Analyte Name   Analytical Results   Reported Detection Limits     Analyte Analyzed:   5/18/98   Result Precetoretore Limits     Analyte	Chloride			8,500		1000
Analyte Name   Analytical Results   Reported Detection Limits     Diesel Range Organics (DRO)   110   10     ANALYSIS: Gasoline Range Organics (GRO)   Method Ref:   5030A/8015B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics <rdl< td="">   10     ANALYSIS: Metals   Method Ref:   3050B/6010B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Method Ref:   3050B/6010B   10     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits     ACCURA ANALYTICAL LABORATORY, INC.   <rdl =="" detection="" less="" limit<="" reported="" td="" than="">   Pg 5 of 24</rdl></rdl<>	ANALYSIS: Dies	el Range Orgai	nics (DRO)	]	Method Ref:	3550B/8015B
Diesel Range Organics (DRO)10ANALYSIS: Gasoline Range Organics (GRO)Method Ref: $5030A/8015B$ Date Analyzed: $5/18/98$ Date Ext/Dig/Prep: $5/18/98$ Result Units: $mg/kg$ Analyte NameAnalytical ResultsReported Detection LimitsGasoline Range Organics <rdl< th="">10ANALYSIS: MetalsNethod Ref: <math>3050B/6010B</math>Date Analyzed:<math>5/18/98</math>Date Ext/Dig/Prep:<math>5/18/98</math>Result Units:<math>mg/Kg</math>Analyte NameKethod Ref: <math>3050B/6010B</math>Result Units:<math>mg/Kg</math>Analyte NameAnalytical ResultsReported Detection LimitsAccoura Analyzed:<math>5/18/98</math>Result Units:<math>mg/Kg</math>Accoura Analytical LABORATORY, INC.<math>&lt; RDL = Less than Reported Detection LimitsPg 5 of 24</math></rdl<>	Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/Kg
ANALYSIS: Gasoline Range Organics (GRO)   Method Ref: 5030A/8015B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics <rdl< td="">   10     ANALYSIS: Metals   Method Ref: 3050B/6010B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Method Ref: 3050B/6010B     Analyte Name   Analytical Results   Reported Detection Limits     Analyte Name   Analytical Results   Reported Detection Limits     ACCURA ANALYTICAL LABORATORY, INC.   <rdl =="" detection="" less="" limit<="" reported="" td="" than="">   Pg 5 of 24</rdl></rdl<>	Analyte Name			Analytical Results	Re	eported Detection Limits
Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics <rdl< td="">   10     ANALYSIS: Metals   Method Ref:   3050B/6010B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     ACCURA ANALYTICAL LABORATORY, INC.   <rdl =="" detection="" less="" limit<="" reported="" td="" than="">   Pg 5 of 24</rdl></rdl<>	Diesel Range Orga	nics (DRO)		110		10
Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits     Gasoline Range Organics <rdl< td="">   10     ANALYSIS: Metals   Method Ref:   3050B/6010B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits   mg/kg     Analyte Name   Analytical Results   Reported Detection Limits     ACCURA ANALYTICAL LABORATORY, INC.   <rdl =="" detection="" less="" limit<="" reported="" td="" than="">   Pg 5 of 24</rdl></rdl<>	ANALYSIS: Gas	oline Range Or	ganics (GRO)	· .	Method Ref:	5030A/8015B
Gasoline Range Organics <rdl< td="">   10     ANALYSIS: Metals   Method Ref: 3050B/6010B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep: 5/18/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     ACCURA ANALYTICAL LABORATORY, INC.   <rdl =="" detection="" less="" limit<="" reported="" td="" than="">   Pg 5 of 24</rdl></rdl<>				5/18/98	Result Units	: mg/kg
ANALYSIS: Metals   Method Ref: 3050B/6010B     Date Analyzed:   5/18/98   Date Ext/Dig/Prep: 5/18/98   Result Units: mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     ACCURA ANALYTICAL LABORATORY, INC. <rdl =="" detection="" less="" limit<="" reported="" td="" than="">   Pg 5 of 24</rdl>	Analyte Name			Analytical Results	<u>R</u>	eported Detection Limits
Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     ACCURA ANALYTICAL LABORATORY, INC. <rdl =="" detection="" less="" limit<="" reported="" td="" than="">   Pg 5 of 24</rdl>	Gasoline Range O	rganics		<rdl< td=""><td></td><td>10</td></rdl<>		10
Date Analyzed:   5/18/98   Date Ext/Dig/Prep:   5/18/98   Result Units:   mg/Kg     Analyte Name   Analytical Results   Reported Detection Limits     ACCURA ANALYTICAL LABORATORY, INC. <rdl =="" detection="" less="" limit<="" reported="" td="" than="">   Pg 5 of 24</rdl>	ANALYSIS: Met	als			Method Ref:	: 3050B/6010B
ACCURA ANALYTICAL LABORATORY, INC. <rdl 24<="" 5="" =="" detection="" less="" limit="" of="" pg="" reported="" td="" than=""><td></td><td></td><td>Date Ext/Dig/Prep:</td><td></td><td></td><td></td></rdl>			Date Ext/Dig/Prep:			
	Analyte Name			Analytical Result	<u>s R</u>	eported Detection Limits
	ACCURA ANALYTI	CAL LABORATOR	RY, INC. <rdl< td=""><td>= Less than Reported D</td><td>etection Limit</td><td>Pg 5 of 24</td></rdl<>	= Less than Reported D	etection Limit	Pg 5 of 24
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Selenium	0		.14	C	5
ANALYSIS: Metal	s - Mercury			Method Ref:	7471A
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	EX QC Surrog	ates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
1,4-Difluorobenzene			99		0
4-Bromofluorobenze	ene		109		0
ANALYSIS: X DR	O QC Surroga	ates (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
o-Terphenyl			78		0
ANALYSIS: X GF	RO QC Surroga	ates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resul	lts <u>R</u> e	eported Detection Limits
1,4-Difluorobenzene			76		0
4-Bromofluorobenze	ene		64		0

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Client Sample ID: PUMP SUMP #3

AALSample ID #: AB43778 Accura Project #: 16614

# ACCUR ANALYTICAL LABORATOR, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

Accura Samp	le ID #: A	AB43779	Accur	a Project #	<b>#: 16614</b>
Client: Grace Oil				Date	Sampled: 5/14/98
Client Contact: MITC	H MORRIS			Date	Received: 5/15/98
Client Project Number:	Client Project Number: NA			Date	Reported: 5/20/98
Client Project Name:	SALTY BI	LL PIT CLOSURE		Sam	ple Matrix: SOIL
Client Sample ID:	PUMP SU	U <b>MP</b> #4			
~					
ANALYSIS: BTEX	<u> </u>		]	Method Ref:	5030A/8021B
Date Analyzed: 5/	18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	ug/Kg
Analyte Name			Analytical Results	Re	ported Detection Limits
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Ethyl benzene Toluene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Xylenes			<rdl <rdl< td=""><td></td><td>5 5</td></rdl<></rdl 		5 5
					-
ANALYSIS: Chloride	in Soil			Method Ref:	325.3M
Date Analyzed: 5/	/19/98	Date Ext/Dig/Prep:	5/19/98	Result Units:	mg/Kg
Analyte Name			Analytical Results	<u>s Re</u>	eported Detection Limits
Chloride			9,100		1000
ANALYSIS: Diesel Ra	unge Organi	cs (DRO)		Method Ref:	3550B/8015B
Date Analyzed: 5/	/16/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/Kg
Analyte Name			Analytical Results	s <u>R</u> e	eported Detection Limits
Diesel Range Organics	(DRO)		85		10
ANALYSIS: Gasoline	Range Org	anics (GRO)		Method Ref	5030A/8015B
	/18/98	Date Ext/Dig/Prep:		Result Units:	
·	, 10, 90	Date Lite Dig Trop.			eported Detection Limits
Analyte Name			Analytical Result	<u> 5 IC</u>	
Gasoline Range Organi	CS		<rdl< td=""><td></td><td>10</td></rdl<>		10
ANALYSIS: Metals				Method Ref:	3050B/6010B
Date Analyzed: 5	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	: mg/Kg
Analyte Name			Analytical Result	<u>s R</u>	eported Detection Limits
ACCURA ANALYTICAL L	ABORATORY	, INC. <rdl< td=""><td>= Less than Reported D</td><td>Detection Limit</td><td>Pg 7 of 24</td></rdl<>	= Less than Reported D	Detection Limit	Pg 7 of 24

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Selenium			22		5
ANALYSIS: Meta	lls - Mercury			Method Ref:	7471A
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X B	TEX QC Surr	ogates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resu	lts <u>Re</u>	ported Detection Limits
1,4-Difluorobenzen 4-Bromofluorobenz			100 104		0 0
ANALYSIS: X D	RO QC Surro	ogates (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resu	lts <u>R</u> e	eported Detection Limits
o-Terphenyl			83		0
ANALYSIS: X G	RO QC Surre	ogates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resu	<u>lts R</u>	eported Detection Limits
1,4-Difluorobenzer	ne		74		0
4-Bromofluoroben	zene		63		0

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Client Sample ID: PUMP SUMP #4

AALSample ID #: AB43779 Accura Project #: 16614

# ACCURTANALYTICAL LABORATOR, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

Accura Sample ID #: AB43780	Accura Project #: 16614
Client: Grace Oil	Date Sampled: 5/14/98
Client Contact: MITCH MORRIS	Date Received: 5/15/98
Client Project Number: NA	Date Reported: 5/20/98
Client Project Name: SALTY BILL PIT CLOSURE	Sample Matrix: SOIL
Client Sample ID: T-1	·
ANALYSIS: BTEX	Method Ref: 5030A/8021B
Date Analyzed: 5/18/98 Date Ext/Dig/Pre	
Analyte Name	Analytical Results Reported Detection Limits
Benzene	<rdl 5<="" td=""></rdl>
Ethyl benzene	<rdl 5<="" td=""></rdl>
Toluene	<rdl 5<="" td=""></rdl>
Xylenes	18 5
ANALYSIS: Chloride in Soil	Method Ref: 325.3M
Date Analyzed: 5/19/98 Date Ext/Dig/Pre	: 5/19/98 Result Units: mg/Kg
<u>Analyte Name</u>	Analytical Results Reported Detection Limits
Chloride	9,100 1000
ANALYSIS: Diesel Range Organics (DRO)	Method Ref: 3550B/8015B
Date Analyzed: 5/17/98 Date Ext/Dig/Pre	: 5/15/98 Result Units: mg/Kg
Analyte Name	Analytical Results Reported Detection Limits
Diesel Range Organics (DRO)	960 200
ANALYSIS: Gasoline Range Organics (GRO)	Method Ref: 5030A/8015B
Date Analyzed: 5/18/98 Date Ext/Dig/Pre	o: 5/18/98 Result Units: mg/kg
Analyte Name	Analytical Results Reported Detection Limit
Gasoline Range Organics	<rdl 10<="" td=""></rdl>
ANALYSIS: Metals	Method Ref: 3050B/6010B
Date Analyzed: 5/18/98 Date Ext/Dig/Pre	p: 5/18/98 Result Units: mg/Kg
	Analytical Results Reported Detection Limit
Analyte Name	
	DL = Less than Reported Detection Limit Pg 9 of 2

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ANALYSIS: Metal	s - Mercury			Method Ref:	7471A
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg
Analyte Name			Analytical Resu	ilts Rer	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	<u>'EX QC Suri</u>	rogates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Rest	<u>ilts Re</u> r	ported Detection Limits
1,4-Difluorobenzen	e		115		0
4-Bromofluorobenz	ene		101		0
ANALYSIS: X DI	RO QC Surr	ogates (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Res	ults Re	ported Detection Limits
o-Terphenyl			See narra	tive	0
ANALYSIS: X_G	RO OC Surr	ogates (Soils)		Method Ref:	5030A/8015B
	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Date Analyzed:	5/10/90	Date Ext Dig/Frep.	5/10/20	Result Offics.	70
Analyte Name			Analytical Res	ults <u>Re</u>	ported Detection Limits
1,4-Difluorobenzen	e		66		0
4-Bromofluorobenz	zene		44		0

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Accura Analytical Laboratory, Inc.

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Pg 10 of 24

Client Sample ID: T-1

Selenium

# ACCUR ANALYTICAL LABORATOR, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

		LADUKATUK	I KEI OKI			
Accura Sa	mple ID #:	AB43781	Accura Project #: 16614			
Client: Grace Oil				Date	Sampled: 5/14/98	
Client Contact: M	ITCH MORRI	S		Date	Received: 5/15/98	
Client Project Numb	er: NA			Date	Reported: 5/20/98	
Client Project Name: SALTY BILL PIT CLOSURE			Sam	ple Matrix: SOIL		
Client Sample ID:	T-2					
ANALYSIS: BTEX	κ		Method Ref: 5030A/8021B			
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	ug/Kg	
Analyte Name			Analytical Resu	<u>ilts Re</u>	ported Detection Limits	
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Ethyl benzene			21		5	
Toluene			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Xylenes			170		5	
ANALYSIS: Chlor	ride in Soil			Method Ref:	325.3M	
Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98	Result Units:	mg/Kg	
Analyte Name			Analytical Res	ults <u>R</u> e	ported Detection Limits	
Chloride			5,100		1000	
ANALYSIS: Diese	el Range Orga	nics (DRO)		Method Ref:	3550B/8015B	
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/Kg	
Analyte Name			Analytical Res	ults <u>Re</u>	eported Detection Limits	
Diesel Range Orgar	nics (DRO)		2,800		200	
ANALYSIS: Gaso	line Range Or	rganics (GRO)	•	Method Ref:	5030A/8015B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/kg	
Analyte Name			Analytical Res	ults <u>R</u>	eported Detection Limits	
Gasoline Range Or	ganics		13		10	
ANALYSIS: Meta	als			Method Ref:	3050B/6010B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	: mg/Kg	
Analyte Name			Analytical Res	sults <u>R</u>	eported Detection Limits	

ACCURA ANALYTICAL LABORATORY, INC.

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<RDL = Less than Reported Detection Limit

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Client Sample ID: T-2

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•	Selenium			19	<b>O</b>	5
	ANALYSIS: Metals	s - Mercury			Method Ref:	7471A
	Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg
	Analyte Name			Analytical Resul	ts <u>R</u> e	ported Detection Limits
	Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
	ANALYSIS: X BT	EX QC Surrog	ates (Soils)		Method Ref:	5030A/8021B
	Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
	Analyte Name			Analytical Resul	ts <u>R</u> e	eported Detection Limits
	1,4-Difluorobenzene 4-Bromofluorobenze			105 107		0 0
	ANALYSIS: X DR	O QC Surroga	ates (Soil)		Method Ref:	3550B/8015B
	Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
	Analyte Name			Analytical Resul	lts <u>R</u>	eported Detection Limits
	o-Terphenyl			See narrati	ve	0
	ANALYSIS: X GR	<u>RO QC Surrog</u>	ates (Soils)		Method Ref:	5030A/8015B
	Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	: %
	Analyte Name			Analytical Resu	<u>lts R</u>	eported Detection Limits
	1,4-Difluorobenzene 4-Bromofluorobenze			61 674		0 0

ACCURA ANALYTICAL LABORATORY, INC.

AALSample ID #: AB43781 Accura Project #: 16614

Pg 12 of 24

Client Sample ID: T-2

# ACCUI ANALYTICAL LABORATO, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

#### LABORATORY REPORT

Accura Sample ID #: AB43782			Accura Project #: 16614			
Client: Grace Oil				Date Sampled: 5/14/98		
Client Contact: M	ITCH MORRIS	5	Date Received: 5/15/98			
Client Project Numb	ber: NA		Date Reported: 5/20/98			
Client Project Name	SALTY B	ILL PIT CLOSURE		Sample Matrix: SOIL		
Client Sample ID:	T-3					
ANALYSIS: BTE	x		Ме	thod Ref: 5030A/8021B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:		sult Units: ug/Kg		
Analyte Name			Analytical Results	Reported Detection Limits		
Benzene			<rdl< td=""><td>5</td></rdl<>	5		
Ethyl benzene			<rdl< td=""><td>5</td></rdl<>	5		
Toluene			<rdl< td=""><td>5</td></rdl<>	5		
Xylenes			<rdl< td=""><td>5</td></rdl<>	5		
ANALYSIS: Chlo	ride in Soil		Me	ethod Ref: 325.3M		
Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98 Re	sult Units: mg/Kg		
<u>Analyte Name</u>			Analytical Results	Reported Detection Limits		
Chloride			16,000	1000		
ANALYSIS: Diese	el Range Orga	nics (DRO)	Me	ethod Ref: 3550B/8015B		
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/15/98 Re	sult Units: mg/Kg		
Analyte Name			Analytical Results	Reported Detection Limits		
Diesel Range Organ	nics (DRO)		320	50		
ANALYSIS: Gase	oline Range Or	ganics (GRO)	M	ethod Ref: 5030A/8015B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98 Re	esult Units: mg/kg		
Analyte Name			Analytical Results	Reported Detection Limits		
Gasoline Range Or	ganics		<rdl< td=""><td>10</td></rdl<>	10		
ANALYSIS: Met	als		М	ethod Ref: 3050B/6010B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98 Re	esult Units: mg/Kg		
			Analytical Results	Reported Detection Limits		

Client Sample ID: T-3

AALSample ID #: AB43782 Accura Project #: 16614

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Selenium			19		5
ANALYSIS: Metal	<u>s - Mercury</u>			t that Date	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Method Ref: Result Units:	
Analyte Name		с. 4 -	Analytical Res	:	
Mercury			<rd><rdl< td=""><td></td><td>Dorted Detection Limits 0.5</td></rdl<></rd>		Dorted Detection Limits 0.5
ANALYSIS: X BT	EX QC Sur	rogates (Soils)		Mathod Ref:	5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	*
Analyte Name			Analytical Res	ults Re	ported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenzen	ne				0
ANALYSIS: X DRO Date Analyzed:	D QC Surro 5/17/98	gates (Soil) Date Ext/Dig/Prep:	5/15/98	Method Ref: Result Units:	0 3550B/8015B %
Analyte Name			Analytical Res		ported Detection Limits
o-Terphenyl			99	<u></u>	0
ANALYSIS: X GRO	OQC Surro	gates (Soils)		Mathe J D - G	5020 1 /001 55
<b>D</b>	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	5030A/8015B
Analyte Name			Analytical Rest		ported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenzen	e		70 60		0 0

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ACCURA ANALYTICAL LABORATORY, INC.

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Client Sample ID: T-3

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AALSample ID #: AB43782 Accura Project #: 16614

# ACCURA ANALYTICAL LABORATORY, INC. 6017 Finan Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

6017 Finan

SC Certification # 98015 USACE-MRD Approved NC Certification # 483 FL Certification # E87429

LABORATORY REPORT

### Accura Sample ID #: AB43783

### Accura Project #: 16614

Client: Grace Oil	
Client Contact: MITC	H MORRIS
Client Project Number:	NA
Client Project Name:	SALTY BILL PIT CLOSURE
Client Sample ID:	T-4

Date Sampled:	5/14/98
Date Received:	5/15/98
Date Reported:	5/20/98
Sample Matrix:	SOIL

ANALYSIS: BTE	x			Method Ref: 5	030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	ug/Kg
<u>Analyte Name</u>			Analytical Result	s Rep	orted Detection Limits
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Ethyl benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Toluene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Xylenes			34		5
ANALYSIS: Chic	oride in Soil			Method Ref:	325.3M
Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	ts <u>Rep</u>	orted Detection Limits
Chloride			16,000		1000
ANALYSIS: Dies	el Range Orga	nics (DRO)		Method Ref:	3550B/8015B
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/Kg
Analyte Name			Analytical Resu	ts Rep	oorted Detection Limits
Diesel Range Orga	anics (DRO)		320		50
ANALYSIS: Gas	oline Range O	rganics (GRO)		Method Ref:	5030A/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/kg
Analyte Name			Analytical Resu	lts <u>Re</u> j	ported Detection Limits
Gasoline Range O	rganics		<rdl< td=""><td></td><td>10</td></rdl<>		10
ANALYSIS: Me	tals			Method Ref:	3050B/6010B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg
<u>Analyte Name</u>			Analytical Rest	<u>Its Re</u>	ported Detection Limits
ACCURA ANALYTI	CAL LABORATO	RY, INC. <rdi< td=""><td>_ = Less than Reported</td><td>Detection Limit</td><td>Pg 15 of 24</td></rdi<>	_ = Less than Reported	Detection Limit	Pg 15 of 24
Client Sample ID:	T-4		AALSample ID	#: AB43783 /	Accura Project #: 16614

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Selenium

ANALYSIS: Metal	<u>s - Mercury</u>			Method Ref:	7471A
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg
Analyte Name			Analytical Resu	<u>lts R</u>	eported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	<u>EX QC Sur</u>	rogates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	· %
Analyte Name			Analytical Resu	<u>lts R</u>	eported Detection Limits
1,4-Difluorobenzen	2		96		0
4-Bromofluorobenz	ene		113		0
ANALYSIS: X DI	<u>RO QC Surr</u>	ogates (Soil)		Method Ref	3550B/8015B
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/15/98	Result Units	: %
Analyte Name			Analytical Resu	<u>ilts R</u>	eported Detection Limits
o-Terphenyl			95		0
ANALYSIS: X G	<u>RO QC Suri</u>	ogates (Soils)		Method Ref	: 5030A/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	: %
Analyte Name			Analytical Resu	<u>ilts R</u>	eported Detection Limits
1,4-Difluorobenzen	e		72		0
4-Bromofluorobenz	ene		61		0

Accura Analytical Laboratory, Inc.

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# ACCORA ANALYTICAL LABORATORY, INC. 6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

NC Certification # 483 USACE-MRD Approved FL Certification # E87429 SC Certification # 98015

### LABORATORY REPORT

Accura Sample ID #: AB43784			Accura Project #: 16614			
Client: Grace Oil			Date Sampled: 5/14/98			
Client Contact: M	ITCH MORRIS	5	Date Received: 5/15/98			
Client Project Num	ber: NA		Date Reported: 5/20/98			
Client Project Name	SALTY B	ILL PIT CLOSURE		Sample Matrix: SOIL		
Client Sample ID:	T-5					
ANALYSIS: BTE	x		M	ethod Ref: 5030A/8021B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/1 <b>8/98</b> Re	sult Units: ug/Kg		
Analyte Name			Analytical Results	Reported Detection Limits		
Benzene			<rdl< td=""><td>5</td></rdl<>	5		
Ethyl benzene			<rdl< td=""><td>5</td></rdl<>	5		
Toluene Xylenes			<rdl <rdl< td=""><td>5 5</td></rdl<></rdl 	5 5		
ANALYSIS: Chlo	ride in Soil		Method Ref: 325.3M			
Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98 Re	esult Units: mg/Kg		
Analyte Name			Analytical Results	Reported Detection Limits		
Chloride			15,000	1000		
ANALYSIS: Diese	el Range Organ	iics (DRO)	М	ethod Ref: 3550B/8015B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/1 <b>5/98</b> Re	esult Units: mg/Kg		
Analyte Name			Analytical Results	Reported Detection Limits		
Diesel Range Organ	nics (DRO)		270	50		
ANALYSIS: Gase	line Range Org	ganics (GRO)	·	lethod Ref: 5030A/8015B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/1 <b>8/98</b> R	esult Units: mg/kg		
Analyte Name			Analytical Results	Reported Detection Limits		
Gasoline Range Or	ganics		<rdl< td=""><td>10</td></rdl<>	10		
ANALYSIS: Meta	als		Ν	1ethod Ref: 3050B/6010B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/1 <b>8/98</b> R	esult Units: mg/Kg		
Analyte Name			Analytical Results	Reported Detection Limits		
ACCURA ANALYTIC	AL LABORATOR	Y, INC. <rdl< td=""><td>= Less than Reported Det</td><td>ection Limit Pg 17 of 24</td></rdl<>	= Less than Reported Det	ection Limit Pg 17 of 24		
Client Sample ID: T	`-5	,	AALSample ID #:	AB43784 Accura Project #: 16614		

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ANALYSIS: Meta				Method Ref: 7471A
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units: mg/Kg
Analyte Name			Analytical Resu	Ilts Reported Detection Lir
Mercury			<rdl< td=""><td>0.5</td></rdl<>	0.5
<u>ANALYSIS: X B'</u>	TEX QC Surr	ogates (Soils)		Method Ref: 5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units: %
Analyte Name			Analytical Rest	alts Reported Detection Lin
1,4-Difluorobenzen 4-Bromofluorobenz			105 110	0 0
<u>ANALYSIS: X D</u>	RO QC Surro	gates (Soil)		Method Ref: 3550B/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/15/98	Result Units: %
Analyte Name			Analytical Resu	ults Reported Detection Li
o-Terphenyl			99	0
<u>ANALYSIS: X G</u>	RO QC Surro	ogates (Soils)		Method Ref: 5030A/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units: %
Analyte Name			Analytical Resi	ults Reported Detection Li
1,4-Difluorobenzer 4-Bromofluoroben:			67 61	0 0 Accura Analytical Laboratory,
ACCURA ANALYTIC	CAL LABORATO	RY, INC. <rdl< td=""><td>= Less than Reporte</td><td>d Detection Limit Pg 18</td></rdl<>	= Less than Reporte	d Detection Limit Pg 18
Client Sample ID: 7	<b>[-5</b>		AALSample ID	) #: AB43784 Accura Project #: 16

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## ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43785			Accura Project #: 16614			
Client: Grace Oil			Date Sampled: 5/14/98			
Client Contact: M	ITCH MORRIS	3	Date Received: 5/15/98			
Client Project Numl	ber: NA		Date Reported: 5/20/98			
Client Project Name	: SALTY B	ILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	Т-6					
ANALYSIS: BTE	x		N	lethod Ref:	5030A/8021B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:		esult Units:	ug/Kg	
<u>Analyte Name</u>			Analytical Results	Re	ported Detection Limits	
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Ethyl benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Toluene Xylenes			<rdl <rdl< td=""><td></td><td>5 5</td></rdl<></rdl 		5 5	
ANALYSIS: Chlo	ride in Soil		Ν	fethod Ref:	325.3M	
Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98 R	esult Units:	mg/Kg	
Analyte Name			Analytical Results	Re	ported Detection Limits	
Chloride			12,000		1000	
ANALYSIS: Dies	el Range Orgai	nics (DRO)	Ν	/lethod Ref:	3550B/8015B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/15/98 R	Result Units:	mg/Kg	
Analyte Name			Analytical Results	<u>Re</u>	eported Detection Limits	
Diesel Range Orga	nics (DRO)		690		100	
ANALYSIS: Gase	oline Range Or	ganics (GRO)	Ň	Method Ref:	5030A/8015B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98 F	Result Units:	: mg/kg	
Analyte Name			Analytical Results	<u>R</u>	eported Detection Limits	
Gasoline Range O	rganics		<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANALYSIS: Met	als		n	Method Ref:	3050B/6010B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98 H	Result Units	: mg/Kg	
Analyte Name			Analytical Results	<u>R</u>	eported Detection Limits	
ACCURA ANALYTIC	CAL LABORATOR	XY, INC. <rdl< td=""><td>= Less than Reported De</td><td>tection Limit</td><td>Pg 19 of 24</td></rdl<>	= Less than Reported De	tection Limit	Pg 19 of 24	
Client Sample ID: 7	Г-6		AALSample ID #:	AB43785	Accura Project #: 16614	

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ANALYSIS: Metals - Mercury				Method Ref:	7471A
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	: mg/Kg
Analyte Name			Analytical Resu	ults R	eported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BTEX QC Surrogates (Soils)				Method Ref:	5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	: %
Analyte Name			Analytical Resu	<u>ilts R</u>	eported Detection Limits
1,4-Difluorobenzene			99		0
4-Bromofluorobenzene			113		0
ANALYSIS: X DRO QC Surrogates (Soil)				Method Ref	: 3550B/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/15/98	Result Units	: %
Analyte Name			Analytical Res	<u>ilts R</u>	eported Detection Limits
o-Terphenyl			96		0
ANALYSIS: X_GRO QC Surrogates (Soils)				Method Ref	: 5030A/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	:: %
Analyte Name			Analytical Res	ults R	eported Detection Limits
1,4-Difluorobenzer	ne		68		0
4-Bromofluorobenzene			65		0

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# ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

#### Accura Sample ID #: AB43786 Accura Project #: 16614 Client: Grace Oil Date Sampled: 5/14/98 Client Contact: MITCH MORRIS Date Received: 5/15/98 Client Project Number: NA Date Reported: 5/20/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL **Client Sample ID: T-7 ANALYSIS: BTEX** Method Ref: 5030A/8021B Date Analyzed: 5/18/98 Date Ext/Dig/Prep: 5/18/98 Result Units: ug/Kg Analyte Name Analytical Results Reported Detection Limits Benzene <RDL 5 Ethyl benzene 5 <RDL Toluene <RDL 5 **Xylenes** <RDL 5 ANALYSIS: Chloride in Soil Method Ref: 325.3M Date Ext/Dig/Prep: 5/19/98 Date Analyzed: 5/19/98 Result Units: mg/Kg Analyte Name Analytical Results Reported Detection Limits Chloride 12,000 1000 ANALYSIS: Diesel Range Organics (DRO) Method Ref: 3550B/8015B 5/16/98 Date Analyzed: Date Ext/Dig/Prep: 5/15/98 Result Units: mg/Kg Analyte Name **Reported Detection Limits** Analytical Results Diesel Range Organics (DRO) 1,500 200 Method Ref: 5030A/8015B ANALYSIS: Gasoline Range Organics (GRO) 5/18/98 Date Ext/Dig/Prep: 5/18/98 Date Analyzed: Result Units: mg/kg Analyte Name **Reported Detection Limits Analytical Results** Gasoline Range Organics <RDL 10 Method Ref: 3050B/6010B ANALYSIS: Metals Date Analyzed: 5/18/98 Date Ext/Dig/Prep: 5/18/98 Result Units: mg/Kg Analyte Name Analytical Results **Reported Detection Limits** ACCURA ANALYTICAL LABORATORY, INC. <RDL = Less than Reported Detection Limit Pg 21 of 24 Client Sample ID: T-7 AALSample ID #: AB43786 Accura Project #: 16614

Selenium			18		5
ANALYSIS: Metals - Mercury				Method Ref:	7471A
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg
Analyte Name			Analytical Result	ts <u>Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	EX QC Surrog	gates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
1,4-Difluorobenzene			108		0
4-Bromofluorobenzene			112		0
ANALYSIS: X DRO QC Surrogates (Soil)				Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
o-Terphenyl			See narrativ	ve	0
ANALYSIS: X GRO QC Surrogates (Soils)				Method Ref:	5030A/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resul	ts <u>R</u> e	ported Detection Limits
1,4-Difluorobenzene	:		64		0
4-Bromofluorobenze	ene		49		0

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# ACCUR ANALYTICAL LABORATORY, INC

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

#### Accura Sample ID #: AB43787 Accura Project #: 16614 Client: Grace Oil Date Sampled: 5/14/98 Client Contact: MITCH MORRIS Date Received: 5/15/98 Client Project Number: NA Date Reported: 5/20/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL **Client Sample ID: METHOD BLANK ANALYSIS: BTEX** Method Ref: 5030A/8021B Date Analyzed: 5/18/98 Date Ext/Dig/Prep: 5/18/98 Result Units: ug/Kg Analyte Name Analytical Results **Reported Detection Limits** Benzene 5 <RDL Ethyl benzene 5 <RDL Toluene <RDL 5 **Xylenes** <RDL 5 ANALYSIS: Chloride in Soil Method Ref: 325.3M Date Ext/Dig/Prep: 5/19/98 Date Analyzed: 5/19/98 Result Units: mg/Kg Reported Detection Limits Analyte Name Analytical Results Chloride 10 <RDL ANALYSIS: Diesel Range Organics (DRO) Method Ref: 3550B/8015B Date Analyzed: 5/15/98 Date Ext/Dig/Prep: 5/15/98 Result Units: mg/Kg Analyte Name Analytical Results **Reported Detection Limits** Diesel Range Organics (DRO) <RDL 10 ANALYSIS: Gasoline Range Organics (GRO) Method Ref: 5030A/8015B Date Analyzed: 5/15/98 Date Ext/Dig/Prep: 5/15/98 Result Units: mg/kg Analyte Name Analytical Results **Reported Detection Limits** 10 Gasoline Range Organics <RDL Method Ref: 3050B/6010B **ANALYSIS: Metals** Date Ext/Dig/Prep: 5/18/98 Date Analyzed: 5/18/98 Result Units: mg/Kg Analyte Name **Reported Detection Limits** Analytical Results ACCURA ANALYTICAL LABORATORY, INC. <RDL = Less than Reported Detection Limit Pg 23 of 24

Client Sample ID: METHOD BLANK

AALSample ID #: AB43787 Accura Project #: 16614

Selenium			<rdl< th=""><th>-</th><th>5</th></rdl<>	-	5
ANALYSIS: Meta	als - Mercury			Method Ref:	7471A
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg
Analyte Name			Analytical Resu	<u>ilts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X B	TEX QC Surr	ogates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resu	<u>ilts Re</u>	ported Detection Limits
	1,4-Difluorobenzene				0
4-Bromofluoroben	4-Bromofluorobenzene				0
ANALYSIS: X D	RO QC Surro	ogates (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resu	<u>ilts Re</u>	eported Detection Limits
o-Terphenyl			94		0
ANALYSIS: X C	RO QC Surr	ogates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name	τ		Analytical Rest	<u>ults R</u>	eported Detection Limits
1,4-Difluorobenze			87		0
4-Bromofluoroben	zene		62		0

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Client Sample ID: METHOD BLANK

AALSample ID #: AB43787 Accura Project #: 16614

# ACCUR ANALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

#### LABORATORY REPORT

### Accura Sample ID #: AB43361

#### Client: Grace Oil

Client Contact: MITCH MORRIS

Client Project Number: NA

Client Project Name: SALTY BILL PIT CLOSURE

Client Sample ID: 1-CG

### Accura Project #: 16546

Date Sampled:	5/7/98
Date Received:	5/9/98
Date Reported:	5/19/98
Sample Matrix:	SOIL

ANALYSIS: BTEX				Method Ref: 5030A/8021B	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units: ug/Kg	
Analyte Name			Analytical Resul	ts <u>Reported Detection Limits</u>	
Benzene			<rdl< td=""><td>5</td></rdl<>	5	
Ethyl benzene			<rdl< td=""><td>5</td></rdl<>	5	
Toluene Xylenes			<rdl <rdl< td=""><td>5 5</td></rdl<></rdl 	5 5	
Aylenes			<rdl< td=""><td>5</td></rdl<>	5	
ANALYSIS: Chlo	ride in Soil		Method Ref: 325.3M		
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units: mg/Kg	
Analyte Name			Analytical Resul	ts Reported Detection Limits	
Chloride			60,000	2000	
ANALYSIS: Diesel Range Organics (DRO)				Method Ref: 3550B/8015B	
			5/14/09		
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units: mg/Kg	
Analyte Name			Analytical Resu	ts <u>Reported Detection Limits</u>	
Diesel Range Organics (DRO)			2,100	200	
ANALYSIS: Gasoline Range Organics (GRO)				Method Ref: 5030A/8015B	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units: mg/kg	
Analyte Name			Analytical Resu	ts <u>Reported Detection Limits</u>	
Gasoline Range Organics			<rdl< td=""><td>10</td></rdl<>	10	
ANALYSIS: Metals				Method Ref: 3050B/6010B	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/12/98	Result Units: mg/Kg	
Analyte Name			Analytical Resu	Its <u>Reported Detection Limits</u>	
ACCURA ANALYTICAL LABORATORY, INC. < RDL = Less than Reported Detection Limit Pg 1 of 46					

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Client Sample ID: 1-CG

AALSample ID #: AB43361 Accura Project #: 16546

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Selenium		2	31		5
ANALYSIS: Meta	lls - Mercury -	RCRA		Method Ref:	7471A
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X B	<b>FEX QC Surro</b>	gates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resul	lts <u>Re</u>	ported Detection Limits
1,4-Difluorobenzen 4-Bromofluorobenz			119 91		0 0
<u>ANALYSIS: X D</u>	RO QC Surrog	ates (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	%
Analyte Name			Analytical Resu	lts <u>Re</u>	eported Detection Limits
o-Terphenyl			See narrati	ve	0
<u>ANALYSIS: X G</u>	RO QC Surros	gates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resu	lts Re	eported Detection Limits
1,4-Difluorobenzer 4-Bromofluoroben:			68 38		0 0

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#### , INC. ANALYTICAL LABORATORY

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483

LABORATORY REPORT

SC Certification # 98015

USACE-MRD Approved

Accura Sample ID #: AB43362	Accura Project #: 16546		
Client: Grace Oil	Date Sampled: 5/7/98		
Client Contact: MITCH MORRIS	Date Received: 5/9/98		
Client Project Number: NA	Date Reported: 5/19/98		
Client Project Name: SALTY BILL PIT CLOSURE	Sample Matrix: SOIL		
Client Sample ID: 2-CG			
ANALYSIS: BTEX	Method Ref: 5030A/8021B		
Date Analyzed: 5/15/98 Date Ext/Dig/Prep:	5/15/98 Result Units: ug/Kg		
Analyte Name	Analytical Results Reported Detection Limits		

Benzene <RDL 5 Ethyl benzene <RDL 5 Toluene <RDL 5 **Xylenes** <RDL 5 Method Ref: 325.3M ANALYSIS: Chloride in Soil Date Analyzed: 5/14/98 Date Ext/Dig/Prep: 5/14/98 Result Units: mg/Kg **Reported Detection Limits** Analyte Name Analytical Results Chloride 1000 10,000 ANALYSIS: Diesel Range Organics (DRO) Method Ref: 3550B/8015B Date Ext/Dig/Prep: 5/14/98 Date Analyzed: 5/15/98 Result Units: mg/Kg Analyte Name Analytical Results Reported Detection Limits Diesel Range Organics (DRO) 150 10 Method Ref: 5030A/8015B ANALYSIS: Gasoline Range Organics (GRO) Date Analyzed: 5/15/98 Date Ext/Dig/Prep: 5/15/98 Result Units: mg/kg Analyte Name **Reported Detection Limits** Analytical Results Gasoline Range Organics <RDL 10

**ANALYSIS: Metals** Method Ref: 3050B/6010B Date Analyzed: 5/15/98 Date Ext/Dig/Prep: 5/12/98 Result Units: mg/Kg Analyte Name **Reported Detection Limits Analytical Results** ACCURA ANALYTICAL LABORATORY, INC. <RDL = Less than Reported Detection Limit Pg 3 of 46

Client Sample ID: 2-CG

AALSample ID #: AB43362 Accura Project #: 16546

Selenium	U		27		5
ANALYSIS: Metals	s - Mercury - R	CRA		Method Ref:	7471A
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	EX QC Surrog	ates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenze			97 111		0 0
ANALYSIS: X DR	O QC Surroga	ites (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	%
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
o-Terphenyl			100		0
ANALYSIS: X GR	O QC Surroga	ates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resul	lts <u>Re</u>	eported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenze			80 68		0 0

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## ACCUR ANALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

## Accura Sample ID #: AB43363

## Accura Project #: 16546

Date Sampled: 5/7/98

Date Received: 5/9/98

Date Reported: 5/19/98

Sample Matrix: SOIL

Client: Grace Oil	)il
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Client Contact: MITCH MORRIS Client Project Number: NA

Client Project Name: SALTY BILL PIT CLOSURE

Client Sample ID: 3-CG

#### Method Ref: 5030A/8021B **ANALYSIS: BTEX** Date Ext/Dig/Prep: 5/15/98 Date Analyzed: 5/15/98 Result Units: ug/Kg Reported Detection Limits Analyte Name Analytical Results Benzene <RDL 5 Ethyl benzene <RDL 5 Toluene <RDL 5 Xylenes <RDL 5 Method Ref: 325.3M ANALYSIS: Chloride in Soil Date Analyzed: 5/14/98 Date Ext/Dig/Prep: 5/14/98 Result Units: mg/Kg Analyte Name Analytical Results Reported Detection Limits Chloride 20,000 1000 ANALYSIS: Diesel Range Organics (DRO) Method Ref: 3550B/8015B Date Analyzed: 5/15/98 Date Ext/Dig/Prep: 5/14/98 Result Units: mg/Kg Analyte Name Analytical Results Reported Detection Limits Diesel Range Organics (DRO) 120 10 ANALYSIS: Gasoline Range Organics (GRO) Method Ref: 5030A/8015B Date Analyzed: 5/15/98 Date Ext/Dig/Prep: 5/15/98 Result Units: mg/kg Analyte Name Analytical Results **Reported Detection Limits Gasoline Range Organics** <RDL 10 Method Ref: 3050B/6010B ANALYSIS: Metals Date Analyzed: 5/15/98 Date Ext/Dig/Prep: 5/12/98 Result Units: mg/Kg Analyte Name **Reported Detection Limits** Analytical Results ACCURA ANALYTICAL LABORATORY, INC. <RDL = Less than Reported Detection Limit Pg 5 of 46 Client Sample ID: 3-CG AALSample ID #: AB43363 Accura Project #: 16546

Selenium	-		28		5
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ANALYSIS: Metal	s - Mercury - R	CRA		Method Ref:	7471A
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	EX OC Surrog	ates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
1,4-Difluorobenzene			114		0
4-Bromofluorobenze			99		0
ANALYSIS: X DR	O QC Surroga	tes (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	%
Analyte Name			Analytical Resul	lts <u>Re</u>	eported Detection Limits
o-Terphenyl			91		0
ANALYSIS: X GF	RO QC Surroga	ates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resu	lts Re	eported Detection Limits
1,4-Difluorobenzene	•		75		0
4-Bromofluorobenze			49		0

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## ACCUR ANALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477 FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sa	mple ID #:	AB43364	Accur	ra Project #	<b>#: 16546</b>
Client: Grace Oil			Date Sampled: 5/7/98		
Client Contact: M	ITCH MORRI	S		Date	Received: 5/9/98
Client Project Num	per: NA		Date Reported: 5/19/98		
Client Project Name	: SALTY E	BILL PIT CLOSURE		Sam	ple Matrix: SOIL
Client Sample ID:	4-CG				
ANALYSIS: BTE	v			Method Ref	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:		Result Units:	
Date Analyzed.	5/15/90	Date Ext Dig/Trep.	5/15/98	Result Offics.	ug/Kg
<u>Analyte Name</u>			Analytical Result	<u>s Re</u>	ported Detection Limits
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Ethyl benzene Toluene			<rdl <rdl< td=""><td></td><td>5 5</td></rdl<></rdl 		5 5
Xylenes			<rdl< td=""><td></td><td>5</td></rdl<>		5
ANALYSIS: Chio	ride in Soil			Method Ref:	325.3M
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Result	<u>s Re</u>	eported Detection Limits
Chloride			20,000		1000
ANALYSIS: Diese	el Range Orga	nics (DRO)		Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Result	<u>s Re</u>	eported Detection Limits
Diesel Range Organ	nics (DRO)		200		50
ANALYSIS: Gaso	line Range Or	ganics (GRO)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/kg
Analyte Name			Analytical Result	<u>s R</u> e	eported Detection Limits
Gasoline Range Or	ganics		<rdl< td=""><td></td><td>10</td></rdl<>		10
ANALYSIS: Meta	al <u>s</u> _			Method Ref:	3050B/6010B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/12/98	Result Units	: mg/Kg
Analyte Name			Analytical Result	ts <u>R</u>	eported Detection Limits
ACCURA ANALYTIC	AL LABORATOR	RY, INC. <rdl< td=""><td>= Less than Reported I</td><td>Detection Limit</td><td>Pg 7 of 46</td></rdl<>	= Less than Reported I	Detection Limit	Pg 7 of 46
Client Sample ID: 4	-CG		AALSample ID #	: AB43364	Accura Project #: 16546

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Selenium	(		37		5
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ANALYSIS: Metal	s - Mercury -	RCRA		Method Ref:	7471A
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Resu	<u>lts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X_BT	<u>EX QC Surr</u>	ogates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resu	<u>lts Re</u>	ported Detection Limits
1,4-Difluorobenzene			97		0
4-Bromofluorobenzo	ene		113		0
ANALYSIS: X DF	RO QC Surro	gates (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	%
Analyte Name			Analytical Resu	lts Re	ported Detection Limits
o-Terphenyl			60		0
ANALYSIS: X GI	RO QC Surro	gates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resu	llts Re	eported Detection Limits
1,4-Difluorobenzen	e		77		0
4-Bromofluorobenz	ene		66		0

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Client Sample ID: 4-CG

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AALSample ID #: AB43364 Accura Project #: 16546

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# ACCUR ANALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

## LABORATORY REPORT

Accura Sample ID #: AB43365	Accura Project #: 16546
Client: Grace Oil	Date Sampled: 5/7/98
Client Contact: MITCH MORRIS	Date Received: 5/9/98
Client Project Number: NA	Date Reported: 5/19/98
Client Project Name: SALTY BILL PIT CLOSUR	Sample Matrix: SOIL
Client Sample ID: 5-CG	
ANALYSIS: BTEX	Method Ref: 5030A/8021B
Date Analyzed: 5/15/98 Date Ext/Dig/Pre	p: 5/15/98 Result Units: ug/Kg
Analyte Name	Analytical Results Reported Detection Limits
Benzene	<rdl 5<="" td=""></rdl>
Ethyl benzene Toluene	<rdl 5<br=""><rdl 5<="" td=""></rdl></rdl>
Xylenes	<rdl 5<="" td=""></rdl>
ANALYSIS: Chloride in Soil	Method Ref: 325.3M
Date Analyzed: 5/14/98 Date Ext/Dig/Pro	p: 5/14/98 Result Units: mg/Kg
Analyte Name	Analytical Results Reported Detection Limits
Chloride	30,000 1000
ANALYSIS: Diesel Range Organics (DRO)	Method Ref: 3550B/8015B
Date Analyzed: 5/16/98 Date Ext/Dig/Pro	p: 5/14/98 Result Units: mg/Kg
Analyte Name	Analytical Results Reported Detection Limits
Diesel Range Organics (DRO)	<rdl 10<="" td=""></rdl>
ANALYSIS: Gasoline Range Organics (GRO)	Method Ref: 5030A/8015B
Date Analyzed: 5/15/98 Date Ext/Dig/Pr	
Analyte Name	Analytical Results Reported Detection Limits
Gasoline Range Organics	<rdl 10<="" td=""></rdl>
ANALYSIS: Metals	Method Ref: 3050B/6010B
Date Analyzed: 5/15/98 Date Ext/Dig/Pr	ep: 5/12/98 Result Units: mg/Kg
Analyte Name	Analytical Results Reported Detection Limits
ACCURA ANALYTICAL LABORATORY, INC. <1	DL = Less than Reported Detection Limit Pg 9 of 46

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Selenium			16		5
ANALYSIS: Me	tals - Mercury -	RCRA		Method Ref:	7471A
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Resu	<u>ilts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X	BTEX QC Surr	ogates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Rest	<u>ilts Re</u>	ported Detection Limits
1,4-Difluorobenzene			101		0
4-Bromofluorobe	nzene		110		0
<u>ANALYSIS: X</u>	DPO OC Surro	gates (Soil)		Method Ref	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	%
Analyte Name			Analytical Res	ults <u>Re</u>	eported Detection Limits
o-Terphenyl			69		0
ANALYSIS: X	GRO QC Surro	gates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Res	ults <u>R</u> e	eported Detection Limits
1,4-Difluorobenz	ene		72		0
4-Bromofluorobe			57		0

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# CCURAANALYTICAL LABORATOR, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

NC Certification # 483

FL Certification # E87429

### LABORATORY REPORT

SC Certification # 98015

USACE-MRD Approved

	LABORATORY REPORT						
Accura Sai	mple ID #:	AB43366	Accu	ra Project #	<b>#: 16546</b>		
Client: Grace Oil				Date	Sampled: 5/7/98		
Client Contact: MI	TCH MORRIS	5		Date Received: 5/9/98			
Client Project Numb	Client Project Number: NA			Date	Reported: 5/19/98		
Client Project Name: SALTY BILL PIT CLOSURE				Sam	ple Matrix: SOIL		
Client Sample ID:	6-CG						
ANALYSIS: BTEX	, ,			Method Ref:	5030A/8021B		
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	ug/Kg		
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits		
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5		
Ethyl benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5		
Toluene			<rdl< td=""><td></td><td>5 5</td></rdl<>		5 5		
Xylenes			<rdl< th=""><th></th><th>5</th></rdl<>		5		
ANALYSIS: Chlor	ide in Soil			Method Ref:	325.3M		
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg		
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits		
Chloride			60,000		1000		
ANALYSIS: Diesel	Range Orgai	nics (DRO)		Method Ref:	3550B/8015B		
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg		
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits		
Diesel Range Organ	ics (DRO)		<rdl< td=""><td></td><td>10</td></rdl<>		10		
ANALYSIS: Gasol	ine Range Or	ganics (GRO)		Method Ref:	5030A/8015B		
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/kg		
Analyte Name			Analytical Resul	lts <u>R</u> e	eported Detection Limits		
Gasoline Range Org	anics		<rdl< td=""><td></td><td>10</td></rdl<>		10		

 ANALYSIS: Metals
 Method Ref: 3050B/6010B

 Date Analyzed:
 5/15/98
 Date Ext/Dig/Prep: 5/12/98
 Result Units: mg/Kg

 Analyte Name
 Analytical Results
 Reported Detection Limits

 ACCURA ANALYTICAL LABORATORY, INC.
 <RDL = Less than Reported Detection Limit</td>
 Pg 11 of 46

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Client Sample ID: 6-CG

AALSample ID #: AB43366 Accura Project #: 16546

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ANALYSIS: Meta	als - Mercury -	- RCRA	Method Ref: 7471A		
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units: mg/Kg	
Analyte Name			Analytical Resu	Its Reported Detection Limits	
Mercury			<rdl< td=""><td>0.5</td></rdl<>	0.5	
ANALYSIS: X BTEX QC Surrogates (Soils)				Method Ref: 5030A/8021B	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units: %	
Analyte Name			Analytical Resu	lts Reported Detection Limits	
1,4-Difluorobenzer 4-Bromofluoroben			100 100	0 0	
<u>ANALYSIS: X D</u>	RO QC Surro	ogates (Soil)	Method Ref: 3550B/8015B		
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units: %	
Analyte Name			Analytical Resu	Its Reported Detection Limits	
o-Terphenyl			85	0	
<u>ANALYSIS: X G</u>	RO QC Surre	ogates (Soils)		Method Ref: 5030A/8015B	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units: %	
Analyte Name			Analytical Resu	Its Reported Detection Limits	
1,4-Difluorobenze	ne		78	0	
4-Bromofluoroben	zene		58	0	

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## NALYTICAL LABORATOR

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

#### Accura Sample ID #: AB43367 Accura Project #: 16546 Client: Grace Oil Date Sampled: 5/7/98 Client Contact: MITCH MORRIS Date Received: 5/9/98 Date Reported: 5/19/98 Client Project Number: NA Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL **Client Sample ID:** 7-CG Method Ref: 5030A/8021B **ANALYSIS: BTEX** Date Ext/Dig/Prep: 5/18/98 Date Analyzed: 5/18/98 Result Units: ug/Kg Analyte Name Analytical Results **Reported Detection Limits** 5 Benzene <RDL 5 Ethyl benzene <RDL Toluene <RDL 5 **Xylenes** <RDL 5 Method Ref: 325.3M ANALYSIS: Chloride in Soil Date Ext/Dig/Prep: 5/14/98 5/14/98 Result Units: Date Analyzed: mg/Kg Analyte Name Analytical Results Reported Detection Limits Chloride 40,000 1000 Method Ref: 3550B/8015B ANALYSIS: Diesel Range Organics (DRO)

Date Analyzed: 5/16/98 Date Ext/Dig/Prep: 5/14/98 Result Units: mg/Kg **Reported Detection Limits** Analyte Name Analytical Results Diesel Range Organics (DRO) 37 10 Method Ref: 5030A/8015B ANALYSIS: Gasoline Range Organics (GRO) Date Analyzed: 5/18/98 Date Ext/Dig/Prep: 5/18/98 Result Units: mg/kg **Reported Detection Limits** Analyte Name Analytical Results Gasoline Range Organics <RDL 10 Method Ref: 3050B/6010B ANALYSIS: Metals Date Ext/Dig/Prep: 5/12/98 Date Analyzed: 5/15/98 Result Units: mg/Kg Analyte Name Analytical Results **Reported Detection Limits** ACCURA ANALYTICAL LABORATORY, INC. <RDL = Less than Reported Detection Limit Pg 13 of 46

Client Sample ID: 7-CG

AALSample ID #: AB43367 Accura Project #: 16546

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ANALYSIS: Metals	s - Mercury - R	CRA		Method Ref:	7471A
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	EX QC Surrog	ates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenze	ne		107 106		0 0
ANALYSIS: X DR	O QC Surroga	tes (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	%
Analyte Name			Analytical Resul	ts <u>Re</u>	eported Detection Limits
o-Terphenyl			70		0
ANALYSIS: X GR	O QC Surroga	ites (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resu	lts <u>Re</u>	eported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenze			69 51		0 0

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AALSample ID #: AB43367 Accura Project #: 16546

# ACCURARNALYTICAL LABORATOR PINC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB43368			Accura Project #: 16546			
Client: Grace Oil				Date	Sampled: 5/7/98	
Client Contact: MITCH I	MORRIS	S		Date	Received: 5/9/98	
Client Project Number: N	A			Date	Reported: 5/19/98	
Client Project Name: SA	ALTY B	ILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	8-CG					
ANALYSIS: BTEX			1	Method Ref:	5030A/8021B	
Date Analyzed: 5/15	/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	ug/Kg	
Analyte Name			Analytical Results	Re	ported Detection Limits	
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Ethyl benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Toluene Xylenes			<rdl <rdl< td=""><td></td><td>5 5</td></rdl<></rdl 		5 5	
ANALYSIS: Chloride in	Soil		1	Method Ref:	325.3M	
Date Analyzed: 5/14	/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg	
Analyte Name			Analytical Results	Re	ported Detection Limits	
Chloride			40,000		1000	
ANALYSIS: Diesel Rang	e Orga	nics (DRO)		Method Ref:	3550B/8015B	
Date Analyzed: 5/16	/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg	
Analyte Name			Analytical Results	<u>Re</u>	ported Detection Limits	
Diesel Range Organics (D	RO)		1,400		200	
ANALYSIS: Gasoline Ra	ange Or	ganics (GRO)	·	Method Ref:	5030A/8015B	
Date Analyzed: 5/15	/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/kg	
Analyte Name			Analytical Results	<u>s Re</u>	eported Detection Limits	
Gasoline Range Organics			<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANALYSIS: Metals				Method Ref:	3050B/6010B	
Date Analyzed: 5/15	5/98	Date Ext/Dig/Prep:	5/12/98	Result Units:	mg/Kg	
Analyte Name			Analytical Result	<u>s R</u> e	eported Detection Limits	
ACCURA ANALYTICAL LAB	ORATOR	Y, INC. <rdl< td=""><td>= Less than Reported D</td><td>etection Limit</td><td>Pg 15 of 46</td></rdl<>	= Less than Reported D	etection Limit	Pg 15 of 46	
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ANALYSIS: Metals	<u>- Mercury - R</u>	CRA		Method Ref:	7471A
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	EX QC Surrog	ates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resul	ts <u>Re</u>	ported Detection Limits
1,4-Difluorobenzene			102		0
4-Bromofluorobenze	ne		101		0
ANALYSIS: X DR	<u>O QC Surroga</u>	tes (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	%
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
o-Terphenyl			See narrativ	ve	0
ANALYSIS: X GR	O QC Surroga	ntes (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
1,4-Difluorobenzene			74		0
4-Bromofluorobenze	ene		52		0

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## ACCURA NALYTICAL LABORATOR DINC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

Accura Sa	ample ID #:	AB43369	Accu	ra Project #	<b>#: 16546</b>
Client: Grace Oil				Date	Sampled: 5/7/98
Client Contact: M	IITCH MORR	IS		Date	Received: 5/9/98
Client Project Num	ber: NA			Date	Reported: 5/19/98
Client Project Nam	e: SALTY	BILL PIT CLOSURE		Sam	ple Matrix: SOIL
Client Sample ID:	9-CG				
ANALYSIS: <u>BTE</u>	X			Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	ug/Kg
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limit
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Ethyl benzene Toluene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Xylenes			<rdl <rdl< td=""><td></td><td>5 5</td></rdl<></rdl 		5 5
ANALYSIS: Chio	oride in Soil			Method Ref:	325 3M
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
-	5/14/90	Date Date Dig Hep.			
<u>Analyte Name</u>			Analytical Result	<u>s ke</u>	ported Detection Limits
Chloride			60,000		1000
ANALYSIS: Dies	<u>el Range Orga</u>	nics (DRO)		Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limit
Diesel Range Orga	nics (DRO)		940		200
ANALYSIS: Gase	oline Range O	rganics (GRO)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/kg
<u>Analyte Name</u>			Analytical Result	<u>s Re</u>	ported Detection Limit
Gasoline Range Or	rganics		<rdl< td=""><td></td><td>10</td></rdl<>		10
ANALYSIS: Met	als			Method Ref:	3050B/6010B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/12/98	Result Units:	mg/Kg
			Analytical Result	s Re	ported Detection Limit

Client Sample ID: 9-CG

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AALSample ID #: AB43369 Accura Project #: 16546

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ANALYSIS: Metals	<u>s - Mercury - R</u>	CRA		Method Ref:	7471A
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	EX QC Surrog	ates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenzene			104 105		0 0
ANALYSIS: X DR	O QC Surroga	ites (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	%
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
o-Terphenyl			See narrati	ve	0
ANALYSIS: X GR	RO QC Surroga	ntes (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resul	lts <u>R</u> e	eported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenze			73 54		0 0

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Accura Analytical Laboratory, Inc.

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Client Sample ID: 9-CG

AALSample ID #: AB43369 Accura Project #: 16546

# ACCURA NALYTICAL LABORATOR

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

Accura Sa	mple ID #:	AB43370	Accura	a Project #: 16546
Client: Grace Oil				Date Sampled: 5/7/98
Client Contact: M	ITCH MORR	IS		Date Received: 5/9/98
Client Project Numb	ber: NA			Date Reported: 5/19/98
Client Project Name	: SALTY I	BILL PIT CLOSURE		Sample Matrix: SOIL
Client Sample ID:	10-CG			
ANALYSIS: BTE	x		Ν	Aethod Ref: 5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98 R	Result Units: ug/Kg
Analyte Name			Analytical Results	Reported Detection Limits
Benzene			<rdl< td=""><td>5</td></rdl<>	5
Ethyl benzene			<rdl< td=""><td>5</td></rdl<>	5
Toluene Xylenes			<rdl <rdl< td=""><td>5</td></rdl<></rdl 	5
Aylenes				5
ANALYSIS: Chlo	ride in Soil		Ν	Method Ref: 325.3M
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98 F	Result Units: mg/Kg
Analyte Name			Analytical Results	Reported Detection Limits
Chloride			30,000	1000
ANALYSIS: Diese	l Range Orga	nics (DRO)	Ν	Method Ref: 3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98 F	Result Units: mg/Kg
Analyte Name			Analytical Results	Reported Detection Limits
Diesel Range Organ	nics (DRO)		720	200
ANALYSIS: Gaso	line Range O	rganics (GRO)	·	Method Ref: 5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98 F	Result Units: mg/kg
Analyte Name			Analytical Results	Reported Detection Limits
Gasoline Range Or	ganics		<rdl< td=""><td>10</td></rdl<>	10
ANALYSIS: Meta	<u>uls</u>		n	Method Ref: 3050B/6010B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/12/98 H	Result Units: mg/Kg
Analyte Name			Analytical Results	Reported Detection Limits
ACCURA ANALYTIC	AL LABORATO	RY, INC. <rdl< td=""><td>= Less than Reported De</td><td>etection Limit Pg 19 of 46</td></rdl<>	= Less than Reported De	etection Limit Pg 19 of 46
Client Sample ID: 1	0-CG		AALSample ID #:	AB43370 Accura Project #: 16546

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ANALYSIS: Meta	ls - Mercury ·	RCRA		Method Ref:	7471A
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Resu	<u>ilts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X B	<u>rex QC Surr</u>	ogates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Rest	<u>ults Re</u>	ported Detection Limits
1,4-Difluorobenzen	e		100		0
4-Bromofluorobenz			108		0
ANALYSIS: X D Date Analyzed:	<u>RO QC Surro</u> 5/16/98	ogates (Soil) Date Ext/Dig/Prep:	5/14/98	Method Ref: Result Units:	3550B/8015B %
Analyte Name			Analytical Res	ults <u>R</u> e	eported Detection Limits
o-Terphenyl			See narra	tive	0
ANALYSIS: X G Date Analyzed:	<u>RO QC Surre</u> 5/15/98	o <mark>gates (Soils)</mark> Date Ext/Dig/Prep:	5/15/98	Method Ref: Result Units	5030A/8015B
Analyte Name			Analytical Res	ults <u>R</u> e	eported Detection Limits
1,4-Difluorobenzer	ie		76		0
4-Bromofluoroben:			61		0

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## NALYTICAL LABORATORY

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

NC Certification # 483 FL Certification # E87429 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

#### Accura Sample ID #: AB43371 Accura Project #: 16546 Client: Grace Oil Date Sampled: 5/7/98 Client Contact: MITCH MORRIS Date Received: 5/9/98 Client Project Number: NA Date Reported: 5/19/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL **Client Sample ID:** 11-CG ANALYSIS: BTEX Method Ref: 5030A/8021B Date Analyzed: 5/15/98 Date Ext/Dig/Prep: 5/15/98 Result Units: ug/Kg Analyte Name Reported Detection Limits Analytical Results Benzene <RDL 5 5 Ethyl benzene <RDL Toluene 5 <RDL **X**vlenes <RDL 5 Method Ref: 325.3M **ANALYSIS:** Chloride in Soil Date Analyzed: 5/14/98 Date Ext/Dig/Prep: 5/14/98 Result Units: mg/Kg Analyte Name Analytical Results Reported Detection Limits Chloride 80,000 1000 Method Ref: 3550B/8015B ANALYSIS: Diesel Range Organics (DRO) Date Analyzed: 5/16/98 Date Ext/Dig/Prep: 5/14/98 Result Units: mg/Kg Analyte Name Analytical Results Reported Detection Limits Diesel Range Organics (DRO) 10 34 ANALYSIS: Gasoline Range Organics (GRO) Method Ref: 5030A/8015B Date Analyzed: Date Ext/Dig/Prep: 5/15/98 5/15/98 Result Units: mg/kg Reported Detection Limits Analyte Name Analytical Results **Gasoline Range Organics** <RDL 10 Method Ref: 3050B/6010B **ANALYSIS: Metals**

Date Ext/Dig/Prep: 5/12/98 Date Analyzed: 5/15/98 Result Units: mg/Kg Analyte Name Analytical Results Reported Detection Limits ACCURA ANALYTICAL LABORATORY, INC. <RDL = Less than Reported Detection Limit Pg 21 of 46

Client Sample ID: 11-CG

AALSample ID #: AB43371 Accura Project #: 16546

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L	ANALYSIS: Metals	s - Mercury - R	CRA		Method Ref:	7471A
	Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
	Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
	Mercury			<rdl< th=""><th></th><th>0.5</th></rdl<>		0.5
	ANALYSIS: X BT	EX QC Surrog	ates (Soils)		Method Ref:	5030A/8021B
	Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
	Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
	l,4-Difluorobenzene 4-Bromofluorobenze			99 110		0 0
	ANALYSIS: X DR	<u>O QC Surroga</u>	ites (Soil)		Method Ref:	3550B/8015B
	Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	%
	Analyte Name			Analytical Resul	its <u>Re</u>	ported Detection Limits
	o-Terphenyl			72		0
	ANALYSIS: X_GR	O QC Surroga	ates (Soils)		Method Ref:	5030A/8015B
	Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
	Analyte Name			Analytical Resul	lts <u>Re</u>	eported Detection Limits
	l,4-Difluorobenzene 4-Bromofluorobenze			75 60		0 0

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AALSample ID #: AB43371 Accura Project #: 16546

Accura Analytical Laboratory, Inc.

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## ACCURA NALYTICAL LABORATOR NO.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

Accura Sa	ample ID #:	AB43372	Accur	ra Project #: 16546
Client: Grace Oil	l			Date Sampled: 5/7/98
Client Contact: M	IITCH MORRI	S		Date Received: 5/9/98
Client Project Num	ber: NA			Date Reported: 5/19/98
Client Project Nam	e: SALTY E	BILL PIT CLOSURE		Sample Matrix: SOIL
Client Sample ID:	12-CG			
ANALYSIS: BTE	x			Method Ref: 5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units: ug/Kg
Analyte Name			Analytical Results	Reported Detection Limits
Benzene			<rdl< td=""><td>5</td></rdl<>	5
Ethyl benzene			<rdl< td=""><td>5</td></rdl<>	5
Toluene Xylenes			<rdl <rdl< td=""><td>5</td></rdl<></rdl 	5
ANALYSIS: Chic	oride in Soil			Method Ref: 325.3M
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units: mg/Kg
Analyte Name			Analytical Result	s Reported Detection Limits
Chloride			20,000	1000
ANALYSIS: Dies	el Range Orga	nics (DRO)		Method Ref: 3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units: mg/Kg
Analyte Name			Analytical Result	s Reported Detection Limits
Diesel Range Orga	nics (DRO)		360	100
ANALYSIS: Gas	oline Range Or	ganics (GRO)		Method Ref: 5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units: mg/kg
Analyte Name			Analytical Result	<u>Reported Detection Limits</u>
Gasoline Range O	rganics		<rdl< td=""><td>10</td></rdl<>	10
ANALYSIS: Met	als			Method Ref: 3050B/6010B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/12/98	Result Units: mg/Kg
<u>Analyte Name</u>			Analytical Result	Reported Detection Limits
ACCURA ANALYTIC	CAL LABORATOR	RY, INC. <rdl< td=""><td>= Less than Reported I</td><td>Detection Limit Pg 23 of 46</td></rdl<>	= Less than Reported I	Detection Limit Pg 23 of 46
Client Sample ID:	1 <b>2-</b> CG		AALSample ID #	: AB43372 Accura Project #: 16546
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	Selenium			20		5
•	ANALYSIS: Metals	s - Mercury -	RCRA		Method Ref:	7471A
	Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
	Analyte Name			Analytical Resu	<u>ilts Re</u>	ported Detection Limits
	Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
	ANALYSIS: X BT	<u>EX QC Surr</u>	ogates (Soils)		Method Ref:	5030A/8021B
	Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
	Analyte Name			Analytical Rest	<u>ults Re</u>	ported Detection Limits
	1,4-Difluorobenzene	•		104		0
	4-Bromofluorobenze	ene		110		0
	ANALYSIS: X DR	20 OC Surra	gates (Soil)		Method Ref	3550B/8015B
	Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	
	Analyte Name			Analytical Res	ults <u>Re</u>	eported Detection Limits
	o-Terphenyl			98		0
	ANALYSIS: X GF	RO QC Surro	ogates (Soils)		Method Ref:	5030A/8015B
	Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
	Analyte Name			Analytical Res	ults <u>R</u> e	eported Detection Limits
	1,4-Difluorobenzene	e		71		0
	4-Bromofluorobenze			58		0

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AALSample ID #: AB43372 Accura Project #: 16546

## ACCURSANALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

## LABORATORY REPORT

Accura Sample II	)#: AB43373	Accura Project #: 16546			
Client: Grace Oil			Date Sampled: 5/7/98		
Client Contact: MITCH MC	ORRIS		Date Received: 5/9/98		
Client Project Number: NA			Date Reported: 5/19/98		
Client Project Name: SAL	TY BILL PIT CLOSURE		Sample Matrix: SOIL		
Client Sample ID: 13	-CG	·			
ANALYSIS: BTEX		Ν	Method Ref: 5030A/8021B		
Date Analyzed: 5/15/98	Date Ext/Dig/Prep:	5/15/98 F	Result Units: ug/Kg		
Analyte Name		Analytical Results	Reported Detection Limit		
Benzene		<rdl< td=""><td>5</td></rdl<>	5		
Ethyl benzene Toluene		<rdl 5.9</rdl 	5		
Xylenes		S.9 <rdl< td=""><td>5 5</td></rdl<>	5 5		
ANALYSIS: Chloride in So	il	Ν	Method Ref: 325.3M		
Date Analyzed: 5/14/98		5/14/98 F	Result Units: mg/Kg		
Analyte Name		Analytical Results	Reported Detection Limit		
Chloride		40,000	1000		
ANALYSIS: Diesel Range (	Organics (DRO)	Ν	Method Ref: 3550B/8015B		
Date Analyzed: 5/16/98	B Date Ext/Dig/Prep:	5/14/98 F	Result Units: mg/Kg		
Analyte Name		Analytical Results	Reported Detection Limi		
Diesel Range Organics (DR	D)	350	50		
ANALYSIS: Gasoline Ran	ge Organics (GRO)	1	Method Ref: 5030A/8015B		
Date Analyzed: 5/15/9	8 Date Ext/Dig/Prep:	5/15/98 H	Result Units: mg/kg		
Analyte Name		Analytical Results	Reported Detection Limi		
Gasoline Range Organics		<rdl< td=""><td>10</td></rdl<>	10		
ANALYSIS: Metals		1	Method Ref: 3050B/6010B		
Date Analyzed: 5/15/9	8 Date Ext/Dig/Prep:	5/12/98	Result Units: mg/Kg		
Analyte Name		Analytical Results	Reported Detection Limi		
ACCURA ANALYTICAL LABOR	ATORY, INC. <rdi.< td=""><td>= Less than Reported De</td><td>etection Limit Pg 25 of</td></rdi.<>	= Less than Reported De	etection Limit Pg 25 of		
Client Sample ID: 13-CG	. ,		AB43373 Accura Project #: 16546		

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Selenium			10		5
ANALYSIS: Meta	ls - Mercury	- RCRA		Method Ref:	7471A
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name			Analytical Resu	<u>ilts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
<u>ANALYSIS: X B</u>	TEX QC Surr	ogates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Resu	<u>ults Re</u>	eported Detection Limits
1,4-Difluorobenzen 4-Bromofluorobenz			109 114		0 0
<u>ANALYSIS: X D</u>	RO QC Surro	ogates (Soil)		Method Ref:	3550B/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	%
Analyte Name			Analytical Rest	ults Re	eported Detection Limits
o-Terphenyl			106		0
<u>ANALYSIS: X G</u>	RO QC Surre	ogates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name			Analytical Res	ults <u>R</u>	eported Detection Limits
1,4-Difluorobenzer 4-Bromofluoroben:			71 54		0 0

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Client Sample ID: 13-CG

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AALSample ID #: AB43373 Accura Project #: 16546

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# ACCUR ANALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

## LABORATORY REPORT

Client: Grace Oil       Date Sampled: 5/7/98         Client Contact: MITCH MORRIS       Date Received: 5/9/98         Client Project Number: NA       Date Reported: 5/19/98         Client Project Name: SALTY BILL PIT CLOSURE       Sample Matrix: SOIL         Client Sample ID:       14-CG         ANALYSIS: BTEX       Method Ref: 5030A/8021B         Date Analyzed:       5/15/98         Date Analyzed:       5/15/98         Result Units:       ug/Kg         Analyte Name       Analytical Results         Benzene <rdl< td="">       5         Ehyl benzene       <rdl< td="">       5         Xylenes       <rdl< td="">       5         Analyte Name       Analytical Results       Reported Detection Limits         Benzene       <rdl< td="">       5         Toluene       <rdl< td="">       5         ANALYSIS: Chloride in Soil       Method Ref: 325.3M         Date Analyzed:       5/14/98       Result Units: mg/Kg         Analvte Name       Analytical Results       Reported Detection Limits         Chloride       40,000       1000         ANALYSIS: Diesel Range Organics (DRO)       Method Ref: 3550B/8015B         Date Analyzed:       5/15/98       Result Units: mg/Kg         Analyte Name</rdl<></rdl<></rdl<></rdl<></rdl<>	Accura Sa	mple ID #:	AB43374	Accu	ra Project #	<b>#: 16546</b>
Client Project Number: NA       Date Reported: $5/19/98$ Client Project Name:       SALTY BILL PIT CLOSURE       Sample Matrix: SOIL         Client Sample ID:       14-CG         ANALYSIS; BTEX       Method Ref: $5030A/8021B$ Date Analyzed: $5/15/98$ Date Ext/Dig/Prep:         Ship Ionzene       Sample Matrix: SOIL       5         Chient Sample       Sample Matrix: SOIL       5         Shylenes       Sample Matrix: SOIL       5         ANALYSIS; Choride in Soil       SANE XVDIg/Prep:       S/14/98       Result Units: mg/Kg         Date Analyzed:       S/14/98       Date Ext/Dig/Prep:       S/14/98       Result Units: mg/Kg         Analytical Results       Reported Detection Limits       Stop/S0015B       S         Date Analyzed:       S/14/98       Date Ext/Dig/Prep:       S/14/98       Result Units: mg/Kg         Analytical Results       Reported Detection Limits       Method Ref: 3550B/8015B       S         Date Analyzed:       S/16/98       Date Ext/Dig/Prep:       S/14/98       Result Units: mg/Kg         Analytical Results       Reported Detection Limits       Method Ref: 3050A/8015B       S         Date Analyzed:       S/15/98       Date Ext/Dig/Prep:       S/15/98       Result Units: mg/Kg </td <td>Client: Grace Oil</td> <td></td> <td></td> <td></td> <td>Date</td> <td>Sampled: 5/7/98</td>	Client: Grace Oil				Date	Sampled: 5/7/98
Client Project Name:       SALTY BILL PIT CLOSURE       Sample Matrix: SOIL         Client Sample ID:       14-CG         ANALYSIS: BTEX       Method Ref: 5030A/8021B         Date Analyzed:       5/15/98       Result Units: ug/Kg         Analvte Name       Analvteial Results       Reported Detection Limits         Benzene <rdl< td="">       5         Stylenes       <rdl< td="">       5         ANALYSIS: Chloride in Soil       Kethod Ref: 325.3M         Date Analyzed:       5/14/98       Date Ext/Dig/Prep:         Sylenes       <rdl< td="">       5         ANALYSIS: Chloride in Soil       Keported Detection Limits         Date Analyzed:       5/14/98       Result Units: mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Chloride       40,000       1000         ANALYSIS: Disset Range Organics (DRO)       Method Ref: 3550B/8015B         Date Analyzed:       5/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units: mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Diesel Range Organics (DRO)       <rdl< td="">       50         Analyte Name       Analytical Results       Reported Detection Limits         Diese Range Organics<td>Client Contact: M</td><td>ITCH MORRI</td><td>S</td><td></td><td>Date</td><td>e Received: 5/9/98</td></rdl<></rdl<></rdl<></rdl<>	Client Contact: M	ITCH MORRI	S		Date	e Received: 5/9/98
Client Sample ID:       14-CG         ANALYSIS: BTEX       Method Ref: $5030A/8021B$ Date Analyzed: $5/15/98$ Date Ext/Dig/Prep: $5/15/98$ Result Units: $ug/Kg$ Analyte Name       Analytical Results       Reported Detection Limits $g/Kg$ Benzene $<$ RDL $5$ Ethyl benzene $<$ RDL $5$ Xylenes $<$ RDL $5$ ANALYSIS: Chloride in Soil	Client Project Numb	per: NA			Date	e Reported: 5/19/98
ANALYSIS; BTEX       Method Ref: 5030A/8021B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       ug/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Benzene <rdl< td="">       5         Ethyl benzene       <rdl< td="">       5         Yolene       <rdl< td="">       5         Xylenes       <rdl< td="">       5         Analytical Results       Reported Detection Limits         Method Ref:       325.3M         Date Analyzed:       5/14/98       Date Ext/Dig/Prep:         S/lenes        5/14/98         Date Analyzed:       5/14/98       Date Ext/Dig/Prep:       5/14/98         Date Analyzed:       5/14/98       Date Ext/Dig/Prep:       5/14/98         Chloride       40,000       1000       1000         Analytical Results       Reported Detection Limits       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Diesel Range Organics (DRO)       Method Ref:       500///////////////////////////////////</rdl<></rdl<></rdl<></rdl<>	Client Project Name	: SALTY E	BILL PIT CLOSURE		Sam	ple Matrix: SOIL
Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       ug/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Benzene <rdl< td="">       5         Ethyl benzene       <rdl< td="">       5         Sylenes       <rdl< td="">       5         Analyte Name        S/15/98       Result Units:       mg/Kg         Date Analyzed:       5/14/98       Date Ext/Dig/Prep:       5/14/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits       Mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits       Mg/Kg         Chloride       40,000       1000       1000         ANALYSIS: Diesel Range Organics (DRO)       Method Ref:       3550B/8015B         Date Analyzed:       5/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units:       mg/Kg         Analytical Results       Reported Detection Limits       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/Kg         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/kg         Analytical Results       Reported Detection Limits       Gasol</rdl<></rdl<></rdl<>	Client Sample ID:	14-CG				-
Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       ug/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Benzene <rdl< td="">       5         Ethyl benzene       <rdl< td="">       5         Sylenes       <rdl< td="">       5         Analyte Name        S/15/98       Result Units:       mg/Kg         Date Analyzed:       5/14/98       Date Ext/Dig/Prep:       5/14/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits       Mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits       Mg/Kg         Chloride       40,000       1000       1000         ANALYSIS: Diesel Range Organics (DRO)       Method Ref:       3550B/8015B         Date Analyzed:       5/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units:       mg/Kg         Analytical Results       Reported Detection Limits       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/Kg         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/kg         Analytical Results       Reported Detection Limits       Gasol</rdl<></rdl<></rdl<>	ANALVSIS, BTE	v			Method Ref:	5030 A /8021 B
Analyte Name       Analytical Results       Reported Detection Limits         Benzene <rdl< td="">       5         Ethyl benzene       <rdl< td="">       5         Toluene       <rdl< td="">       5         Xylenes       <rdl< td="">       5         ANALYSIS: Chloride in Soil       Method Ref: 325.3M       5         Analyte Name       Analytical Results       Reported Detection Limits         Analyte Name       Analytical Results       Reported Detection Limits         Chloride       40,000       1000         ANALYSIS: Diesel Range Organics (DRO)       Method Ref: 3550B/8015B         Date Analyzed:       5/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units: mg/Kg         Analytical Results       Reported Detection Limits       Method Ref: 3550B/8015B       Date Analyzed:       5/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units: mg/Kg         Analytical Results       Reported Detection Limits       Date Ext/Dig/Prep:       5/15/98       Result Units: mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Diesel Range Organics       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units: mg/Kg         Analytical Results       Reported Detection Limits       Gasoline Range Organics</rdl<></rdl<></rdl<></rdl<>			Date Ext/Dig/Prep:	5/15/98		
Benzene <rdl< td="">       5         Ethyl benzene       <rdl< td="">       5         Toluene       <rdl< td="">       5         Xylenes       <rdl< td="">       5         ANALYSIS: Chloride in Soil      </rdl<></rdl<></rdl<></rdl<>	·	•••••••	g p			
Ethyl benzene <rdl< td="">       5         Toluene       <rdl< td="">       5         Xylenes       <rdl< td="">       5         ANALYSIS: Chloride in Soil      </rdl<></rdl<></rdl<>					<u>is Ke</u>	
Toluene Xylenes<NALLYSIS; Chloride in SoilDate Ext/Dig/Prep: $5/14/98$ Method Ref: $325.3M$ Date Analyzed: $5/14/98$ Date Ext/Dig/Prep: $5/14/98$ Result Units:mg/KgAnalyte NameAnalytical ResultsReported Detection LimitsChloride40,0001000ANALYSIS; Diesel Range Organics (DRO)Method Ref: $3550B/8015B$ Date Analyzed: $5/16/98$ Date Ext/Dig/Prep: $5/14/98$ Result Units:mg/KgAnalyte NameAnalytical ResultsReported Detection LimitsDiesel Range Organics (DRO) <rdl< td="">50ANALYSIS; Gasoline Range Organics (GRO)<rdl< td="">50Analyte NameAnalytical Resultsmg/kgDate Analyzed:<math>5/15/98</math>Date Ext/Dig/Prep:<math>5/15/98</math>Result Units:mg/kgAnalyte NameAnalytical ResultsReported Detection LimitsGasoline Range Organics10ANALYSIS; MetalsDate Ext/Dig/Prep:<math>5/12/98</math>Result Units:mg/kgAnalyte Name<!--</td--><td></td><td></td><td></td><td></td><td></td><td></td></rdl<></rdl<>						
Xylenes $\langle RDL$ 5ANALYSIS: Chloride in SoilDate Ext/Dig/Prep:5/14/98Method Ref:325.3MDate Analyzed:5/14/98Date Ext/Dig/Prep:5/14/98Result Units:mg/KgAnalyte NameAnalytical ResultReported Detection LimitsChloride40,0001000ANALYSIS: Diesel Range Organics (DRO)Method Ref:3550B/8015BDate Analyzed:5/16/98Date Ext/Dig/Prep:5/14/98Result Units:mg/KgAnalytical Range Organics (DRO) <rdl< td="">5050ANALYSIS: Gasoline Range Organics (DRO)<rdl< td="">5050Analyte NameAnalytical Results:mg/kgDate Analyzed:5/15/98Date Ext/Dig/Prep:5/15/98Result Units:mg/kgAnalyte NameAnalytical Results:Reported Detection LimitsGasoline Range OrganicsAnalytical Results:mg/kgAnalyte Name10ANALYSIS: MetalsDate Ext/Dig/Prep:5/12/98Result Units:mg/kgDate Analyzed:5/15/98Date Ext/Dig/Prep:5/12/98Result Units:mg/kgAnalyte Name10Analyte NameReported Detection LimitsDate Analyzed:5/15/98Date Ext/Dig/Prep:5/12/98Result Units:mg/kgAnalyte NameReported Detection LimitsAnalyte Name<td< td=""><td>•</td><td></td><td></td><td></td><td></td><td></td></td<></rdl<></rdl<>	•					
Date Analyzed:       5/14/98       Date Ext/Dig/Prep:       5/14/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Chloride       40,000       1000         ANALYSIS: Diesel Range Organics (DRO)       Method Ref:       3550B/8015B         Date Analyzed:       5/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits       mg/Kg         Diesel Range Organics (DRO) <rdl< td="">       50         ANALYSIS: Gasoline Range Organics (GRO)       Method Ref:       5030A/8015B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/Kg         Analvte Name       Analytical Results       Reported Detection Limits       mg/Kg         Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/Kg         Analyte Name        Analytical Results       Reported Detection Limits         Gasoline Range Organics       <rdl< td="">       10         ANALYSIS: Metals       Method Ref:       3050B/6010B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result U</rdl<></rdl<>						
Analyte Name       Analytical Results       Reported Detection Limits         Chloride       40,000       1000         ANALYSIS: Diesel Range Organics (DRO)       Method Ref: 3550B/8015B         Date Analyzed:       5/16/98       Date Ext/Dig/Prep:         S/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Diesel Range Organics (DRO) <rdl< td="">       50         ANALYSIS: Gasoline Range Organics (DRO)       <rdl< td="">       so         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/kg         Analyte Name       Analytical Results       Reported Detection Limits       10         Analyte Name        Analytical Results       mg/kg         Analyte Name         10         ANALYSIS: Metals       S/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/kg         Analyte Name       S/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Name       S/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Name       Korlyteal R</rdl<></rdl<>	ANALYSIS: Chlo	ride in Soil			Method Ref:	325.3M
Chloride       40,000       1000         ANALYSIS: Diesel Range Organics (DRO)       Method Ref: 3550B/8015B         Date Analyzed:       5/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units: mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Diesel Range Organics (DRO) <rdl< td="">       50         ANALYSIS: Gasoline Range Organics (DRO)       <rdl< td="">       50         Analyte Name       S/15/98       Method Ref: 5030A/8015B         Date Analyzed:       5/15/98       Result Units: mg/kg         Analyte Name       Analytical Results       Reported Detection Limits         Gasoline Range Organics       <rdl< td="">       10         ANALYSIS: Metals       Reported Detection Limits       mg/kg         Date Analyzed:       5/15/98       Result Units: mg/kg         Analyte Name       <rdl< td="">       10         ANALYSIS: Metals       Method Ref: 3050B/6010B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units: mg/Kg         Analyte Name       S/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units: mg/Kg         Analyte Name       S/15/98       Date Ext/Dig/Prep:       S/12/98       Reported Detection Limits         <t< td=""><td>Date Analyzed:</td><td>5/14/98</td><td>Date Ext/Dig/Prep:</td><td>5/14/98</td><td>Result Units:</td><td>mg/Kg</td></t<></rdl<></rdl<></rdl<></rdl<>	Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
ANALYSIS: Diesel Range Organics (DRO)       Method Ref: 3550B/8015B         Date Analyzed:       5/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Diesel Range Organics (DRO) <rdl< td="">       50         ANALYSIS: Gasoline Range Organics (GRO)       Method Ref: 5030A/8015B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/kg         Analyte Name       Analytical Results       Reported Detection Limits       mg/kg         Gasoline Range Organics       S15/98       Result Units:       mg/kg         Analyte Name        Analytical Results       Reported Detection Limits         Gasoline Range Organics       <rdl< td="">       10       10         ANALYSIS: Metals       Method Ref: 3050B/6010B       10         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Name       S15/98       Date Ext/Dig/Prep:       5/12/98       Reported Detection Limits         Analyte Name        Analytical Results       Reported Detection Limits         Analyte Name         Pg 27 of 46    <td>Analyte Name</td><td></td><td></td><td>Analytical Resul</td><td>ts <u>Re</u></td><td>eported Detection Limits</td></rdl<></rdl<>	Analyte Name			Analytical Resul	ts <u>Re</u>	eported Detection Limits
Date Analyzed:       5/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Diesel Range Organics (DRO) <rdl< td="">       50         ANALYSIS: Gasoline Range Organics (GRO)       Method Ref: 5030A/8015B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/kg         Analyte Name       Analytical Results       Reported Detection Limits       Method Ref: 3050B/6010B         Gasoline Range Organics       <rdl< td="">       10       10         ANALYSIS: Metals       Method Ref: 3050B/6010B       Result Units:       mg/Kg         Analyte Name       S/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Aname       Analytical Results       Reported Detection Limits       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits       mg/Kg         AccurA ANALYTICAL LABORATORY, INC.       <rdl =="" detection="" less="" limits<="" reported="" td="" than="">       Pg 27 of 46<!--</td--><td>Chloride</td><td></td><td></td><td>40,000</td><td></td><td>1000</td></rdl></rdl<></rdl<>	Chloride			40,000		1000
Date Analyzed:       5/16/98       Date Ext/Dig/Prep:       5/14/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Diesel Range Organics (DRO) <rdl< td="">       50         ANALYSIS: Gasoline Range Organics (GRO)       Method Ref: 5030A/8015B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/kg         Analyte Name       Analytical Results       Reported Detection Limits         Gasoline Range Organics       <rdl< td="">       10         ANALYSIS: Metals       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits       Pg 27 of 46         ACCURA ANALYTICAL LABORATORY, INC.       <rdl =="" detection="" less="" limit<="" reported="" td="" than="">       Pg 27 of 46</rdl></rdl<></rdl<>	ANALYSIS: Diese	el Range Orga	nics (DRO)		Method Ref:	3550B/8015B
Diesel Range Organics (DRO) <rdl< td="">       50         ANALYSIS: Gasoline Range Organics (GRO)       Method Ref: 5030A/8015B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep: 5/15/98       Result Units: mg/kg         Analyte Name       Analytical Results       Reported Detection Limits         Gasoline Range Organics       <rdl< td="">       10         ANALYSIS: Metals       Method Ref: 3050B/6010B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep: 5/12/98         Analyte Name       Analytical Results       mg/kg         Analyte Name       Method Ref: 3050B/6010B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep: 5/12/98         Analyte Name       Analytical Results       Reported Detection Limits         Analyte Name       Analytical Results       Reported Detection Limits         ACCURA ANALYTICAL LABORATORY, INC.       <rdl =="" detection="" less="" limits<="" reported="" td="" than="">       Pg 27 of 46</rdl></rdl<></rdl<>				5/14/98	Result Units:	mg/Kg
ANALYSIS: Gasoline Range Organics (GRO)       Method Ref: 5030A/8015B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units: mg/kg         Analyte Name       Analytical Results       Reported Detection Limits         Gasoline Range Organics <rdl< td="">       10         ANALYSIS: Metals       Method Ref: 3050B/6010B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:         5/12/98       Result Units: mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         Analyte Name       Analytical Results       Reported Detection Limits         Accoura ANALYTICAL LABORATORY, INC.       <rdl =="" detection="" less="" limit<="" reported="" td="" than="">       Pg 27 of 46</rdl></rdl<>	Analyte Name			Analytical Resul	ts <u>Re</u>	eported Detection Limits
Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/kg         Analyte Name       Analytical Results       Reported Detection Limits         Gasoline Range Organics <rdl< td="">       10         ANALYSIS: Metals       Method Ref:       3050B/6010B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         ACCURA ANALYTICAL LABORATORY, INC.       <rdl =="" detection="" less="" limit<="" reported="" td="" than="">       Pg 27 of 46</rdl></rdl<>	Diesel Range Organ	nics (DRO)		<rdl< td=""><td></td><td>50</td></rdl<>		50
Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/15/98       Result Units:       mg/kg         Analyte Name       Analytical Results       Reported Detection Limits         Gasoline Range Organics <rdl< td="">       10         ANALYSIS: Metals       Method Ref:       3050B/6010B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         ACCURA ANALYTICAL LABORATORY, INC.       <rdl =="" detection="" less="" limit<="" reported="" td="" than="">       Pg 27 of 46</rdl></rdl<>	ANALYSIS: Gaso	line Range Or	rganics (GRO)		Method Ref:	5030A/8015B
Gasoline Range Organics <rdl< td="">       10         ANALYSIS: Metals       Method Ref: 3050B/6010B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep: 5/12/98       Result Units: mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         ACCURA ANALYTICAL LABORATORY, INC.       <rdl =="" detection="" less="" limit<="" reported="" td="" than="">       Pg 27 of 46</rdl></rdl<>				5/15/98	Result Units:	mg/kg
ANALYSIS: Metals       Method Ref: 3050B/6010B         Date Analyzed:       5/15/98       Date Ext/Dig/Prep: 5/12/98       Result Units: mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         ACCURA ANALYTICAL LABORATORY, INC. <rdl =="" detection="" less="" limit<="" reported="" td="" than="">       Pg 27 of 46</rdl>	Analyte Name			Analytical Resul	ts <u>R</u> e	eported Detection Limits
Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         ACCURA ANALYTICAL LABORATORY, INC. <rdl =="" detection="" less="" limit<="" reported="" td="" than="">       Pg 27 of 46</rdl>	Gasoline Range Or	ganics		<rdl< td=""><td></td><td>10</td></rdl<>		10
Date Analyzed:       5/15/98       Date Ext/Dig/Prep:       5/12/98       Result Units:       mg/Kg         Analyte Name       Analytical Results       Reported Detection Limits         ACCURA ANALYTICAL LABORATORY, INC. <rdl =="" detection="" less="" limit<="" reported="" td="" than="">       Pg 27 of 46</rdl>	ANALYSIS: Met:	als			Method Ref:	3050B/6010B
ACCURA ANALYTICAL LABORATORY, INC. <rdl 27="" 46<="" =="" detection="" less="" limit="" of="" pg="" reported="" td="" than=""><td></td><td></td><td>Date Ext/Dig/Prep:</td><td>5/12/98</td><td></td><td></td></rdl>			Date Ext/Dig/Prep:	5/12/98		
	Analyte Name			Analytical Resu	lts <u>R</u>	eported Detection Limits
	ACCURA ANALYTIC	AL LABORATOR	RY, INC. <rdl< td=""><td>= Less than Reported</td><td>Detection Limit</td><td>Pg 27 of 46</td></rdl<>	= Less than Reported	Detection Limit	Pg 27 of 46
	Client Sample ID: 1	4-CG		-		Accura Project #: 16546

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	Selenium			11		5
•	ANALYSIS: Metals	s - Mercury - R	CRA		Method Ref:	7471A
	Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units	: mg/Kg
	Analyte Name			Analytical Resul	<u>ts R</u>	eported Detection Limits
	Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
	ANALYSIS: X BT	EX QC Surrog	ates (Soils)		Method Ref	5030A/8021B
	Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units	: %
	Analyte Name			Analytical Resul	<u>ts R</u>	eported Detection Limits
	1,4-Difluorobenzene			104		0
	4-Bromofluorobenze			108		0
	ANALYSIS: X DR	O QC Surroga	tes (Soil)		Method Ref	: 3550B/8015B
	Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units	: %
	Analyte Name			Analytical Resul	<u>lts R</u>	eported Detection Limits
	o-Terphenyl			90		0
	ANALYSIS: X GR	O QC Surroga	ntes (Soils)		Method Ref	: 5030A/8015B
	Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units	: %
	Analyte Name			Analytical Resul	lts R	eported Detection Limits
	1,4-Difluorobenzene			72		0
	4-Bromofluorobenze			59		0

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## ACCUR ANALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

## LABORATORY REPORT

| Accura Sa                                                                                                                     | mple ID #:         | AB43375                                                                                               | Accur                                       | •a Project #   | <b>#: 16546</b>                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------|------------------------------------------------------------------------------------|
| Client: Grace Oil<br>Client Contact: MITCH MORRIS<br>Client Project Number: NA<br>Client Project Name: SALTY BILL PIT CLOSURE |                    |                                                                                                       |                                             | Date<br>Date   | e Sampled: 5/7/98<br>e Received: 5/9/98<br>e Reported: 5/19/98<br>ple Matrix: SOIL |
| Client Sample ID:                                                                                                             | 15-CG              |                                                                                                       |                                             |                |                                                                                    |
| ANALYSIS: BTEX                                                                                                                |                    |                                                                                                       |                                             | Method Ref:    | 5030A/8021B                                                                        |
| Date Analyzed:                                                                                                                | 5/16/98            | Date Ext/Dig/Prep:                                                                                    | 5/16/98                                     | Result Units:  | ug/Kg                                                                              |
| Analyte Name                                                                                                                  |                    |                                                                                                       | Analytical Results                          | <u>Re</u>      | ported Detection Limits                                                            |
| Benzene<br>Ethyl benzene<br>Toluene<br>Xylenes                                                                                |                    |                                                                                                       | <rdl<br><rdl<br>15<br/>45</rdl<br></rdl<br> |                | 5<br>5<br>5<br>5                                                                   |
| ANALYSIS: Chlor                                                                                                               | <u>ide in Soil</u> |                                                                                                       |                                             | Method Ref:    | 325.3M                                                                             |
| Date Analyzed:                                                                                                                | 5/14/98            | Date Ext/Dig/Prep:                                                                                    | 5/14/98                                     | Result Units:  | mg/Kg                                                                              |
| Analyte Name                                                                                                                  |                    |                                                                                                       | Analytical Results                          | <u>8 Re</u>    | ported Detection Limits                                                            |
| Chloride                                                                                                                      |                    |                                                                                                       | 30,000                                      |                | 1000                                                                               |
| ANALYSIS: Diesel                                                                                                              | Range Orgar        | nics (DRO)                                                                                            |                                             | Method Ref:    | 3550B/8015B                                                                        |
| Date Analyzed:                                                                                                                | 5/17/98            | Date Ext/Dig/Prep:                                                                                    | 5/14/98                                     | Result Units:  | mg/Kg                                                                              |
| Analyte Name                                                                                                                  |                    |                                                                                                       | Analytical Results                          | <u>s Re</u>    | ported Detection Limits                                                            |
| Diesel Range Organ                                                                                                            | ics (DRO)          |                                                                                                       | 1,200                                       |                | 200                                                                                |
| ANALYSIS: Gasol                                                                                                               | ine Range Or       | ganics (GRO)                                                                                          |                                             | Method Ref:    | 5030A/8015B                                                                        |
| Date Analyzed:                                                                                                                | 5/16/98            | Date Ext/Dig/Prep:                                                                                    |                                             | Result Units:  |                                                                                    |
| Analyte Name                                                                                                                  |                    |                                                                                                       | Analytical Result                           | <u>s R</u> e   | eported Detection Limits                                                           |
| Gasoline Range Org                                                                                                            | anics              |                                                                                                       | <rdl< td=""><td></td><td>10</td></rdl<>     |                | 10                                                                                 |
| ANALYSIS: Metal                                                                                                               | ls                 |                                                                                                       |                                             | Method Ref:    | 3050B/6010B                                                                        |
| Date Analyzed:                                                                                                                | 5/15/98            | Date Ext/Dig/Prep:                                                                                    | 5/12/98                                     | Result Units:  | mg/Kg                                                                              |
| Analyte Name                                                                                                                  |                    |                                                                                                       | Analytical Result                           | <u>s R</u>     | eported Detection Limits                                                           |
| ACCURA ANALYTICA                                                                                                              | L LABORATOR        | Y, INC. <rdl< td=""><td>= Less than Reported D</td><td>etection Limit</td><td>Pg 29 of 46</td></rdl<> | = Less than Reported D                      | etection Limit | Pg 29 of 46                                                                        |
|                                                                                                                               |                    |                                                                                                       |                                             |                |                                                                                    |

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| Selenium                                  | U                      |                    | 29                                       |               | 5                        |
|-------------------------------------------|------------------------|--------------------|------------------------------------------|---------------|--------------------------|
| ANALYSIS: Metal                           | <u>s - Mercury - R</u> | ICRA               |                                          | Method Ref:   | 7471A                    |
| Date Analyzed:                            | 5/14/98                | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units: | mg/Kg                    |
| Analyte Name                              |                        |                    | Analytical Resul                         | ts <u>R</u> e | ported Detection Limits  |
| Mercury                                   |                        |                    | <rdl< td=""><td></td><td>0.5</td></rdl<> |               | 0.5                      |
| ANALYSIS: X BT                            | EX QC Surrog           | ates (Soils)       |                                          | Method Ref:   | 5030A/8021B              |
| Date Analyzed:                            | 5/16/98                | Date Ext/Dig/Prep: | 5/16/98                                  | Result Units: | %                        |
| Analyte Name                              |                        |                    | Analytical Resul                         | <u>ts Re</u>  | ported Detection Limits  |
| 1,4-Difluorobenzene<br>4-Bromofluorobenze |                        |                    | 111<br>105                               |               | 0<br>0                   |
| ANALYSIS: X DR                            | O QC Surroga           | ites (Soil)        |                                          | Method Ref:   | 3550B/8015B              |
| Date Analyzed:                            | 5/17/98                | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units: | %                        |
| Analyte Name                              |                        |                    | Analytical Resul                         | <u>ts Re</u>  | eported Detection Limits |
| o-Terphenyl                               |                        |                    | See narrativ                             | ve            | 0                        |
| ANALYSIS: X GR                            | to QC Surroga          | ates (Soils)       |                                          | Method Ref:   | 5030A/8015B              |
| Date Analyzed:                            | 5/16/98                | Date Ext/Dig/Prep: | 5/16/98                                  | Result Units: | %                        |
| Analyte Name                              |                        |                    | Analytical Resul                         | <u>ts Re</u>  | eported Detection Limits |
| 1,4-Difluorobenzene<br>4-Bromofluorobenze |                        |                    | 68<br>57                                 |               | 0<br>0                   |

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# ACCUR ANALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

## LABORATORY REPORT

| Accura Sa             | mple ID #:    | AB43376                                                                                              | Accura                                  | a Project #    | #: 16546               |
|-----------------------|---------------|------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------|------------------------|
| Client: Grace Oil     |               |                                                                                                      |                                         | Date           | Sampled: 5/7/98        |
| Client Contact: M     | ITCH MORRI    | S                                                                                                    |                                         | Date           | Received: 5/9/98       |
| Client Project Numb   | er: NA        |                                                                                                      |                                         | Date           | Reported: 5/19/98      |
| Client Project Name   | : SALTY E     | BILL PIT CLOSURE                                                                                     |                                         | Sam            | ple Matrix: SOIL       |
| Client Sample ID:     | 16-CG         |                                                                                                      | ······································  |                |                        |
| <u>ANALYSIS: BTEX</u> | ζ             |                                                                                                      | Ν                                       | Aethod Ref:    | 5030A/8021B            |
| Date Analyzed:        | 5/16/98       | Date Ext/Dig/Prep:                                                                                   | 5/16/98 F                               | Result Units:  | ug/Kg                  |
| Analyte Name          |               |                                                                                                      | Analytical Results                      | Re             | ported Detection Limit |
| Benzene               |               |                                                                                                      | <rdl< td=""><td></td><td>5</td></rdl<>  |                | 5                      |
| Ethyl benzene         |               |                                                                                                      | <rdl< td=""><td></td><td>5</td></rdl<>  |                | 5                      |
| Toluene               |               |                                                                                                      | <rdl< td=""><td></td><td>5</td></rdl<>  |                | 5                      |
| Xylenes               |               |                                                                                                      | <rdl< td=""><td></td><td>5</td></rdl<>  |                | 5                      |
| ANALYSIS: Chlor       | ide in Soil   |                                                                                                      | Ν                                       | Method Ref:    | 325.3M                 |
| Date Analyzed:        | 5/14/98       | Date Ext/Dig/Prep:                                                                                   | 5/14/98 F                               | Result Units:  | mg/Kg                  |
| Analyte Name          |               |                                                                                                      | Analytical Results                      | Re             | ported Detection Limi  |
| Chloride              |               |                                                                                                      | 30,000                                  |                | 1000                   |
| ANALYSIS: Diese       | l Range Orga  | nics (DRO)                                                                                           | Ν                                       | Method Ref:    | 3550B/8015B            |
| Date Analyzed:        | 5/17/98       | Date Ext/Dig/Prep:                                                                                   | 5/14/98 F                               | Result Units:  | mg/Kg                  |
| Analyte Name          |               |                                                                                                      | Analytical Results                      | Re             | ported Detection Limi  |
| Diesel Range Organ    | ics (DRO)     |                                                                                                      | 780                                     |                | 200                    |
| ANALYSIS: Gaso        | line Range Or | ganics (GRO)                                                                                         | 1                                       | Method Ref:    | 5030A/8015B            |
| Date Analyzed:        | 5/16/98       | Date Ext/Dig/Prep:                                                                                   | 5/16/98 I                               | Result Units:  | mg/kg                  |
| Analyte Name          |               |                                                                                                      | Analytical Results                      | Re             | eported Detection Limi |
| Gasoline Range Org    | ganics        |                                                                                                      | <rdl< td=""><td></td><td>10</td></rdl<> |                | 10                     |
| ANALYSIS: Meta        | ls            |                                                                                                      | 1                                       | Method Ref:    | 3050B/6010B            |
| Date Analyzed:        | 5/15/98       | Date Ext/Dig/Prep:                                                                                   | 5/12/98                                 | Result Units:  | mg/Kg                  |
| Analyte Name          |               |                                                                                                      | Analytical Results                      | <u>R</u>       | eported Detection Lim  |
|                       |               |                                                                                                      |                                         |                |                        |
| ACCURA ANALYTICA      | AL LABORATOR  | RY, INC. <rdl< td=""><td>= Less than Reported De</td><td>etection Limit</td><td>Pg 31 of</td></rdl<> | = Less than Reported De                 | etection Limit | Pg 31 of               |

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| Selenium                                  |                         | -                                  | 19                                       |                              | 5                        |
|-------------------------------------------|-------------------------|------------------------------------|------------------------------------------|------------------------------|--------------------------|
| ANALYSIS: Metals                          | s - Mercury - R         | CRA                                |                                          | Method Ref:                  | 7471A                    |
| Date Analyzed:                            | 5/14/98                 | Date Ext/Dig/Prep:                 | 5/14/98                                  | Result Units:                | mg/Kg                    |
| Analyte Name                              |                         |                                    | Analytical Resul                         | <u>ts Re</u>                 | ported Detection Limits  |
| Mercury                                   |                         |                                    | <rdl< td=""><td></td><td>0.5</td></rdl<> |                              | 0.5                      |
| ANALYSIS: X_BT<br>Date Analyzed:          | EX QC Surrog<br>5/16/98 | ates (Soils)<br>Date Ext/Dig/Prep: | 5/16/98                                  | Method Ref:<br>Result Units: | 5030A/8021B<br>%         |
|                                           | 5/10/98                 | Date Ext Dig/Frep.                 |                                          |                              |                          |
| Analyte Name                              |                         |                                    | Analytical Resul                         | <u>ts Re</u>                 | ported Detection Limits  |
| 1,4-Difluorobenzene<br>4-Bromofluorobenze |                         |                                    | 110<br>101                               |                              | 0                        |
| 4-Bromondorobenze                         | iic -                   |                                    | . 101                                    |                              | U                        |
| ANALYSIS: X DR                            | O QC Surroga            | tes (Soil)                         |                                          | Method Ref:                  | 3550B/8015B              |
| Date Analyzed:                            | 5/17/98                 | Date Ext/Dig/Prep:                 | 5/14/98                                  | Result Units:                | %                        |
| Analyte Name                              |                         |                                    | Analytical Resul                         | lts <u>Re</u>                | eported Detection Limits |
| o-Terphenyl                               |                         |                                    | See narrati                              | ve                           | 0                        |
| <u>ANALYSIS: X GR</u>                     | O QC Surroga            | ates (Soils)                       |                                          | Method Ref:                  | 5030A/8015B              |
| Date Analyzed:                            | 5/16/98                 | Date Ext/Dig/Prep:                 | 5/16/98                                  | Result Units:                | %                        |
| Analyte Name                              |                         |                                    | Analytical Resu                          | lts Re                       | eported Detection Limits |
| 1,4-Difluorobenzene                       |                         |                                    | 66                                       |                              | 0                        |
| 4-Bromofluorobenze                        | ene                     |                                    | 47                                       |                              | 0                        |

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# ACCUR ALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

| Accura Sa           | ample ID #:   | AB43377                                                                                                | Accur                                   | a Project #    | #: 16546                 |
|---------------------|---------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------|--------------------------|
| Client: Grace Oil   |               |                                                                                                        |                                         | Date           | Sampled: 5/7/98          |
| Client Contact: M   | ITCH MORR     | IS                                                                                                     | Date Received: 5/9/98                   |                |                          |
| Client Project Num  | ber: NA       |                                                                                                        |                                         | Date           | Reported: 5/19/98        |
| Client Project Nam  | e: SALTY I    | BILL PIT CLOSURE                                                                                       |                                         | Sam            | ple Matrix: SOIL         |
| Client Sample ID:   | 17-CG         |                                                                                                        |                                         |                |                          |
| ANALYSIS: BTE       | x             |                                                                                                        |                                         | Method Ref:    | 5030A/8021B              |
| Date Analyzed:      | 5/16/98       | Date Ext/Dig/Prep:                                                                                     |                                         | Result Units:  |                          |
| Analyte Name        |               |                                                                                                        | Analytical Results                      | Re             | ported Detection Limits  |
| Benzene             |               |                                                                                                        | <rdl< td=""><td></td><td>5</td></rdl<>  |                | 5                        |
| Ethyl benzene       |               |                                                                                                        | <rdl< td=""><td></td><td>5</td></rdl<>  |                | 5                        |
| Toluene             |               |                                                                                                        | <rdl< td=""><td></td><td>5</td></rdl<>  |                | 5                        |
| Xylenes             |               |                                                                                                        | <rdl< td=""><td></td><td>5</td></rdl<>  |                | 5                        |
| ANALYSIS: Chlo      | oride in Soil |                                                                                                        |                                         | Method Ref:    | 325.3M                   |
| Date Analyzed:      | 5/14/98       | Date Ext/Dig/Prep:                                                                                     | 5/14/98                                 | Result Units:  | mg/Kg                    |
| Analyte Name        |               |                                                                                                        | Analytical Results                      | Re             | ported Detection Limits  |
| Chloride            |               |                                                                                                        | 30,000                                  |                | 1000                     |
| ANALYSIS: Dies      | el Range Orga | nics (DRO)                                                                                             |                                         | Method Ref:    | 3550B/8015B              |
| Date Analyzed:      | 5/17/98       | Date Ext/Dig/Prep:                                                                                     | 5/14/98                                 | Result Units:  | mg/Kg                    |
| Analyte Name        |               |                                                                                                        | Analytical Results                      | <u>Re</u>      | ported Detection Limits  |
| Diesel Range Orga   | nics (DRO)    |                                                                                                        | 130                                     |                | 10                       |
| ANALYSIS: Gas       | oline Range O | rganics (GRO)                                                                                          |                                         | Method Ref:    | 5030A/8015B              |
| Date Analyzed:      | 5/16/98       | Date Ext/Dig/Prep:                                                                                     | 5/16/98                                 | Result Units:  | mg/kg                    |
| Analyte Name        |               |                                                                                                        | Analytical Results                      | <u>8 Re</u>    | eported Detection Limits |
| Gasoline Range Or   | rganics       |                                                                                                        | <rdl< td=""><td></td><td>10</td></rdl<> |                | 10                       |
| ANALYSIS: Met       | als           |                                                                                                        |                                         | Method Ref:    | 3050B/6010B              |
| Date Analyzed:      | 5/15/98       | Date Ext/Dig/Prep:                                                                                     | 5/12/98                                 | Result Units:  | mg/Kg                    |
| Analyte Name        |               |                                                                                                        | Analytical Result                       | <u>s R</u>     | eported Detection Limits |
| ACCURA ANALYTIC     | CAL LABORATO  | RY, INC. <rdl< td=""><td>= Less than Reported D</td><td>etection Limit</td><td>Pg 33 of 46</td></rdl<> | = Less than Reported D                  | etection Limit | Pg 33 of 46              |
| Client Sample ID: 1 |               |                                                                                                        | ·                                       |                | Accura Project #: 16546  |
|                     |               |                                                                                                        | ·                                       |                |                          |

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| Selenium                                |                       |                    | 15                                       |                 | 5                        |
|-----------------------------------------|-----------------------|--------------------|------------------------------------------|-----------------|--------------------------|
| ANALYSIS: Meta                          | <u>ls - Mercury -</u> | RCRA               |                                          | Method Ref:     | 7471A                    |
| Date Analyzed:                          | 5/14/98               | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units:   | mg/Kg                    |
| Analyte Name                            |                       |                    | Analytical Res                           | ults <u>Re</u>  | eported Detection Limits |
| Mercury                                 |                       |                    | <rdl< td=""><td></td><td>0.5</td></rdl<> |                 | 0.5                      |
| ANALYSIS: X B                           | <u> FEX QC Surr</u>   | ogates (Soils)     |                                          | Method Ref:     | 5030A/8021B              |
| Date Analyzed:                          | 5/16/98               | Date Ext/Dig/Prep: | 5/16/98                                  | Result Units:   | %                        |
| Analyte Name                            |                       |                    | Analytical Res                           | ults <u>R</u> e | eported Detection Limits |
| 1,4-Difluorobenzen<br>4-Bromofluorobenz |                       |                    | 108<br>106                               |                 | 0<br>0                   |
| ANALYSIS: X D                           | RO QC Surro           | gates (Soil)       |                                          | Method Ref:     | 3550B/8015B              |
| Date Analyzed:                          | 5/17/98               | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units:   | ; %                      |
| Analyte Name                            |                       |                    | Analytical Res                           | ults <u>R</u> e | eported Detection Limits |
| o-Terphenyl                             |                       |                    | 104                                      |                 | 0                        |
| <u>ANALYSIS: X_G</u>                    | RO QC Surro           | ogates (Soils)     |                                          | Method Ref:     | 5030A/8015B              |
| Date Analyzed:                          | 5/16/98               | Date Ext/Dig/Prep: | 5/16/98                                  | Result Units    | : %                      |
| Analyte Name                            |                       |                    | Analytical Res                           | sults <u>R</u>  | eported Detection Limits |
| l,4-Difluorobenzen<br>4-Bromofluorobenz |                       |                    | 72<br>50                                 |                 | 0<br>0                   |

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## ACCURINALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

## LABORATORY REPORT

| Accura Sa           | ample ID #:   | AB43378            | Accura                         | a Project #: 16546        |  |
|---------------------|---------------|--------------------|--------------------------------|---------------------------|--|
| Client: Grace Oil   |               |                    |                                | Date Sampled: 5/7/98      |  |
| Client Contact: N   | 11TCH MORR    | IS                 | Date Received: 5/9/98          |                           |  |
| Client Project Num  | ber: NA       |                    |                                | Date Reported: 5/19/98    |  |
| Client Project Name | e: SALTY      | BILL PIT CLOSURE   |                                | Sample Matrix: SOIL       |  |
| Client Sample ID:   | 18-CG         |                    |                                |                           |  |
| ANALYSIS: BTE       | X             |                    | Ν                              | Aethod Ref: 5030A/8021B   |  |
| Date Analyzed:      | 5/16/98       | Date Ext/Dig/Prep: | 5/16/98 F                      | Result Units: ug/Kg       |  |
| Analyte Name        |               |                    | Analytical Results             | Reported Detection Limits |  |
| Benzene             |               |                    | <rdl< td=""><td>5</td></rdl<>  | 5                         |  |
| Ethyl benzene       |               |                    | <rdl< td=""><td>5</td></rdl<>  | 5                         |  |
| Toluene<br>Xylenes  |               |                    | 14<br>29                       | 5<br>5                    |  |
| ANALYSIS: Chlo      | oride in Soil |                    | N                              | Method Ref: 325.3M        |  |
| Date Analyzed:      | 5/14/98       | Date Ext/Dig/Prep: |                                | Result Units: mg/Kg       |  |
| Analyte Name        |               |                    | Analytical Results             | Reported Detection Limits |  |
| Chloride            |               |                    | 30,000                         | 1000                      |  |
| ANALYSIS: Dies      | el Range Orga | nics (DRO)         | n                              | Method Ref: 3550B/8015B   |  |
| Date Analyzed:      | 5/17/98       | Date Ext/Dig/Prep: | 5/14/98 H                      | Result Units: mg/Kg       |  |
| Analyte Name        |               |                    | Analytical Results             | Reported Detection Limits |  |
| Diesel Range Orga   | nics (DRO)    |                    | 860                            | 200                       |  |
| ANALYSIS: Gase      | oline Range O | rganics (GRO)      | I                              | Method Ref: 5030A/8015B   |  |
| Date Analyzed:      | 5/16/98       | Date Ext/Dig/Prep: | 5/16/98                        | Result Units: mg/kg       |  |
| Analyte Name        |               |                    | Analytical Results             | Reported Detection Limit  |  |
| Gasoline Range Or   | ganics        |                    | <rdl< td=""><td>10</td></rdl<> | 10                        |  |
| ANALYSIS: Met       | als           |                    | ]                              | Method Ref: 3050B/6010B   |  |
| Date Analyzed:      | 5/15/98       | Date Ext/Dig/Prep: | 5/12/98                        | Result Units: mg/Kg       |  |
|                     |               |                    | Analytical Results             | Reported Detection Limit  |  |

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Client Sample ID: 18-CG

AALSample ID #: AB43378 Accura Project #: 16546

| Selenium                | U               |                    | 20                                       |               | 5                       |
|-------------------------|-----------------|--------------------|------------------------------------------|---------------|-------------------------|
| · .<br>ANALYSIS: Metals | s - Mercury - R | CRA                |                                          | Method Ref:   | 7471A                   |
| Date Analyzed:          | 5/14/98         | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units: | mg/Kg                   |
| Analyte Name            |                 |                    | Analytical Resul                         | ts <u>Re</u>  | ported Detection Limits |
| Mercury                 |                 |                    | <rdl< td=""><td></td><td>0.5</td></rdl<> |               | 0.5                     |
| ANALYSIS: X BT          | EX QC Surrog    | ates (Soils)       |                                          | Method Ref:   | 5030A/8021B             |
| Date Analyzed:          | 5/16/98         | Date Ext/Dig/Prep: | 5/16/98                                  | Result Units: | %                       |
| Analyte Name            |                 |                    | Analytical Resul                         | <u>ts Re</u>  | ported Detection Limits |
| 1,4-Difluorobenzene     |                 |                    | 103                                      |               | 0                       |
| 4-Bromofluorobenze      | ne              |                    | 114                                      |               | 0                       |
| ANALYSIS: X DR          | O QC Surroga    | tes (Soil)         |                                          | Method Ref:   | 3550B/8015B             |
| Date Analyzed:          | 5/17/98         | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units: | %                       |
| Analyte Name            |                 |                    | Analytical Resul                         | <u>ts Re</u>  | ported Detection Limits |
| o-Terphenyl             |                 |                    | See narrativ                             | ve            | 0                       |
| <u>ANALYSIS: X GR</u>   | O QC Surroga    | tes (Soils)        |                                          | Method Ref:   | 5030A/8015B             |
| Date Analyzed:          | 5/16/98         | Date Ext/Dig/Prep: | 5/16/98                                  | Result Units: | %                       |
| Analyte Name            |                 |                    | Analytical Resul                         | ts <u>Re</u>  | ported Detection Limits |
| 1,4-Difluorobenzene     |                 |                    | 71                                       |               | 0                       |
| 4-Bromofluorobenze      | ene             |                    | 63                                       |               | 0                       |

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#### ANALYTICAL LABORATOR INC. A

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

| Accura S             | ample ID #:    | AB43379            | Accu                                                 | ra Project #: 16546                |  |
|----------------------|----------------|--------------------|------------------------------------------------------|------------------------------------|--|
| Client: Grace Oi     | 1              |                    |                                                      | Date Sampled: 5/7/98               |  |
| Client Contact: N    | MITCH MORRI    | S                  | Date Received: 5/9/98                                |                                    |  |
| Client Project Nurr  | iber: NA       |                    |                                                      | Date Reported: 5/19/98             |  |
| Client Project Nam   | e: SALTY E     | BILL PIT CLOSURE   |                                                      | Sample Matrix: SOIL                |  |
| Client Sample ID     | : 19-CG        |                    |                                                      |                                    |  |
| <u>ANALYSIS: BTE</u> | X              |                    |                                                      | Method Ref: 5030A/8021B            |  |
| Date Analyzed:       | 5/18/98        | Date Ext/Dig/Prep: | 5/18/98                                              | Result Units: ug/Kg                |  |
| Analyte Name         |                |                    | Analytical Result                                    | s <u>Reported Detection Limits</u> |  |
| Benzene              |                |                    | <rdl< td=""><td>5</td></rdl<>                        | 5                                  |  |
| Ethyl benzene        |                |                    | <rdl< td=""><td>5</td></rdl<>                        | 5                                  |  |
| Toluene<br>Xylenes   |                |                    | <rdl<br><rdl< td=""><td>5<br/>5</td></rdl<></rdl<br> | 5<br>5                             |  |
|                      |                |                    |                                                      |                                    |  |
| ANALYSIS: Chl        | oride in Soil  |                    |                                                      | Method Ref: 325.3M                 |  |
| Date Analyzed:       | 5/14/98        | Date Ext/Dig/Prep: | 5/14/98                                              | Result Units: mg/Kg                |  |
| Analyte Name         |                |                    | Analytical Result                                    | Reported Detection Limits          |  |
| Chloride             |                |                    | 20,000                                               | 1000                               |  |
| ANALYSIS: Dies       | sel Range Orga | nics (DRO)         |                                                      | Method Ref: 3550B/8015B            |  |
| Date Analyzed:       | 5/17/98        | Date Ext/Dig/Prep: | 5/15/98                                              | Result Units: mg/Kg                |  |
| Analyte Name         |                |                    | Analytical Resul                                     | ts Reported Detection Limits       |  |
| Diesel Range Orga    | anics (DRO)    |                    | 310                                                  | 50                                 |  |
| ANALYSIS: Gas        | oline Range Or | ganics (GRO)       |                                                      | Method Ref: 5030A/8015B            |  |
| Date Analyzed:       | 5/18/98        | Date Ext/Dig/Prep: | 5/18/98                                              | Result Units: mg/kg                |  |
| <u>Analyte Name</u>  |                |                    | Analytical Resul                                     | ts Reported Detection Limits       |  |
| Gasoline Range O     | rganics        |                    | <rdl< td=""><td>10</td></rdl<>                       | 10                                 |  |
| ANALYSIS: Me         | tals           | ·                  |                                                      | Method Ref: 3050B/6010B            |  |
| Date Analyzed:       | 5/15/98        | Date Ext/Dig/Prep: | 5/12/98                                              | Result Units: mg/Kg                |  |
|                      |                |                    | Analytical Resul                                     | ts Reported Detection Limit        |  |

Client Sample ID: 19-CG

AALSample ID #: AB43379 Accura Project #: 16546
| Selenium                                |              |                    | 18                                       |                | 5                        |
|-----------------------------------------|--------------|--------------------|------------------------------------------|----------------|--------------------------|
| ANALYSIS: Meta                          | ls - Mercury | - RCRA             |                                          | Method Ref:    | 7471A                    |
| Date Analyzed:                          | 5/14/98      | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units:  | mg/Kg                    |
| Analyte Name                            |              |                    | Analytical Resu                          | <u>ilts Re</u> | ported Detection Limits  |
| Mercury                                 |              |                    | <rdl< td=""><td></td><td>0.5</td></rdl<> |                | 0.5                      |
| ANALYSIS: X BTEX QC Surrogates (Soils)  |              |                    |                                          | Method Ref:    | 5030A/8021B              |
| Date Analyzed:                          | 5/18/98      | Date Ext/Dig/Prep: | 5/18/98                                  | Result Units:  | %                        |
| Analyte Name                            |              |                    | Analytical Resu                          | <u>ilts Re</u> | ported Detection Limits  |
| 1,4-Difluorobenzen<br>4-Bromofluorobenz |              |                    | 101<br>111                               |                | 0<br>0                   |
| ANALYSIS: X D                           | RO QC Surro  | ogates (Soil)      |                                          | Method Ref:    | 3550B/8015B              |
| Date Analyzed:                          | 5/17/98      | Date Ext/Dig/Prep: | 5/15/98                                  | Result Units:  | %                        |
| Analyte Name                            |              |                    | Analytical Resu                          | <u>ilts Re</u> | eported Detection Limits |
| o-Terphenyl                             |              |                    | 84                                       |                | 0                        |
| <u>ANALYSIS: X G</u>                    | RO QC Surr   | ogates (Soils)     |                                          | Method Ref:    | 5030A/8015B              |
| Date Analyzed:                          | 5/18/98      | Date Ext/Dig/Prep: | 5/18/98                                  | Result Units:  | %                        |
| Analyte Name                            |              |                    | Analytical Resu                          | <u>ults Re</u> | eported Detection Limits |
| l,4-Difluorobenzen<br>4-Bromofluorobenz |              |                    | 70<br>61                                 |                | 0<br>0                   |

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# CCUR ANALYTICAL LABORATOR INC

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

#### LABORATORY REPORT

#### Accura Sample ID #: AB43380 Accura Project #: 16546 Client: Grace Oil Date Sampled: 5/7/98 Client Contact: MITCH MORRIS Date Received: 5/9/98 Client Project Number: NA Date Reported: 5/19/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL **Client Sample ID:** 20-CG Method Ref: 5030A/8021B **ANALYSIS: BTEX** Date Analyzed: 5/17/98 Date Ext/Dig/Prep: 5/17/98 Result Units: ug/Kg Analyte Name Analytical Results Reported Detection Limits 5 Benzene <RDL 5 Ethyl benzene <RDL Toluene 5 <RDL 5 **Xylenes** <RDL ANALYSIS: Chloride in Soil Method Ref: 325.3M Date Ext/Dig/Prep: 5/14/98 Date Analyzed: 5/14/98 Result Units: mg/Kg Analyte Name **Analytical Results** Reported Detection Limits Chloride 1000 30,000 ANALYSIS: Diesel Range Organics (DRO) Method Ref: 3550B/8015B Date Ext/Dig/Prep: 5/15/98 Date Analyzed: 5/15/98 Result Units: mg/Kg Reported Detection Limits Analyte Name Analytical Results Diesel Range Organics (DRO) 150 10 ANALYSIS: Gasoline Range Organics (GRO) Method Ref: 5030A/8015B Date Ext/Dig/Prep: 5/17/98 Date Analyzed: 5/17/98 Result Units: mg/kg Analyte Name Analytical Results **Reported Detection Limits Gasoline Range Organics** <RDL 10 **ANALYSIS: Metals** Method Ref: 3050B/6010B

 Date Analyzed:
 5/15/98
 Date Ext/Dig/Prep:
 5/12/98
 Result Units:
 mg/Kg

 Analyte Name
 Analytical Results
 Reported Detection Limits

 ACCURA ANALYTICAL LABORATORY, INC.
 <RDL = Less than Reported Detection Limit</td>
 Pg 39 of 46

Client Sample ID: 20-CG

AALSample ID #: AB43380 Accura Project #: 16546

| · •                 |              |                    |                                          |               |                          |
|---------------------|--------------|--------------------|------------------------------------------|---------------|--------------------------|
| ANALYSIS: Meta      | ls - Mercury | - RCRA             |                                          | Method Ref:   | 7471A                    |
| Date Analyzed:      | 5/14/98      | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units: | : mg/Kg                  |
| Analyte Name        |              |                    | Analytical Resu                          | <u>lts R</u>  | eported Detection Limits |
| Mercury             |              |                    | <rdl< td=""><td></td><td>0.5</td></rdl<> |               | 0.5                      |
| ANALYSIS: X BI      | EX QC Suri   | ogates (Soils)     |                                          | Method Ref:   | 5030A/8021B              |
| Date Analyzed:      | 5/17/98      | Date Ext/Dig/Prep: | 5/17/98                                  | Result Units  | : %                      |
| Analyte Name        |              |                    | Analytical Resu                          | <u>llts R</u> | eported Detection Limits |
| 1,4-Difluorobenzene |              |                    | 100                                      |               | 0                        |
| 4-Bromofluorobenz   | ene          |                    | 110                                      |               | 0                        |
| ANALYSIS: X DI      | RO QC Surro  | ogates (Soil)      |                                          | Method Ref:   | 3550B/8015B              |
| Date Analyzed:      | 5/15/98      | Date Ext/Dig/Prep: | 5/15/98                                  | Result Units  | : %                      |
| Analyte Name        |              |                    | Analytical Resu                          | <u>ilts R</u> | eported Detection Limits |
| o-Terphenyl         |              |                    | 85                                       |               | 0                        |
| ANALYSIS: X G       | RO QC Surr   | ogates (Soils)     |                                          | Method Ref    | 5030A/8015B              |
| Date Analyzed:      | 5/17/98      | Date Ext/Dig/Prep: | 5/17/98                                  | Result Units  | : %                      |
| Analyte Name        |              |                    | Analytical Resu                          | <u>ilts R</u> | eported Detection Limits |
| 1,4-Difluorobenzen  |              |                    | 80                                       |               | 0                        |
| 4-Bromofluorobenz   | ene          |                    | 79                                       |               | 0                        |

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# ACCURA ANALYTICAL LABORATOR INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

#### LABORATORY REPORT

| Accura Sample ID #: AB43381 |               |                                                                                                 | Accura Project #: 16546                              |                            |  |
|-----------------------------|---------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------|--|
| Client: Grace Oil           |               |                                                                                                 |                                                      | Date Sampled: 5/7/98       |  |
| Client Contact: M           | ITCH MORRI    | S                                                                                               | Date Received: 5/9/98                                |                            |  |
| Client Project Numb         | per: NA       |                                                                                                 |                                                      | Date Reported: 5/19/98     |  |
| Client Project Name         | SALTY E       | BILL PIT CLOSURE                                                                                |                                                      | Sample Matrix: SOIL        |  |
| Client Sample ID:           | 21-CG         |                                                                                                 |                                                      |                            |  |
| ANALYSIS: BTE               | x             |                                                                                                 | Ν                                                    | Aethod Ref: 5030A/8021B    |  |
| Date Analyzed:              | 5/17/98       | Date Ext/Dig/Prep:                                                                              | 5/17/98 R                                            | Result Units: ug/Kg        |  |
| Analyte Name                |               |                                                                                                 | Analytical Results                                   | Reported Detection Limits  |  |
| Benzene                     |               |                                                                                                 | <rdl< td=""><td>5</td></rdl<>                        | 5                          |  |
| Ethyl benzene<br>Toluene    |               |                                                                                                 | <rdl<br><rdl< td=""><td>5<br/>5</td></rdl<></rdl<br> | 5<br>5                     |  |
| Xylenes                     |               |                                                                                                 | <rdl<br><rdl< td=""><td>5</td></rdl<></rdl<br>       | 5                          |  |
| ANALYSIS: Chlor             | ride in Soil  |                                                                                                 | Method Ref: 325.3M                                   |                            |  |
| Date Analyzed:              | 5/14/98       | Date Ext/Dig/Prep:                                                                              | 5/14/98 F                                            | Result Units: mg/Kg        |  |
| Analyte Name                |               |                                                                                                 | Analytical Results                                   | Reported Detection Limits  |  |
| Chloride                    |               |                                                                                                 | 30,000                                               | 1000                       |  |
| ANALYSIS: Diese             | el Range Orga | nics (DRO)                                                                                      | Ν                                                    | Method Ref: 3550B/8015B    |  |
| Date Analyzed:              | 5/17/98       | Date Ext/Dig/Prep:                                                                              | 5/15/98 F                                            | Result Units: mg/Kg        |  |
| Analyte Name                |               |                                                                                                 | Analytical Results                                   | Reported Detection Limits  |  |
| Diesel Range Orgar          | nics (DRO)    |                                                                                                 | 1,000                                                | 200                        |  |
| ANALYSIS: Gaso              | line Range O  | rganics (GRO)                                                                                   | 1                                                    | Method Ref: 5030A/8015B    |  |
| Date Analyzed:              | 5/17/98       | Date Ext/Dig/Prep:                                                                              | 5/17/98 H                                            | Result Units: mg/kg        |  |
| Analyte Name                |               |                                                                                                 | Analytical Results                                   | Reported Detection Limits  |  |
| Gasoline Range Or           | ganics        |                                                                                                 | <rdl< td=""><td>10</td></rdl<>                       | 10                         |  |
| ANALYSIS: Meta              | ils           | · · · · · · · · · · · · · · · · · · ·                                                           | I                                                    | Method Ref: 3050B/6010B    |  |
| Date Analyzed:              | 5/15/98       | Date Ext/Dig/Prep:                                                                              | 5/12/98                                              | Result Units: mg/Kg        |  |
| Analyte Name                |               |                                                                                                 | Analytical Results                                   | Reported Detection Limits  |  |
| ACCURA ANALYTIC             | AL LABORATOR  | RY, INC. <rdl< td=""><td>= Less than Reported De</td><td>etection Limit Pg 41 of 40</td></rdl<> | = Less than Reported De                              | etection Limit Pg 41 of 40 |  |

Client Sample ID: 21-CG

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| Selenium                                |                |                    | 21                                       | O             | 5                        |
|-----------------------------------------|----------------|--------------------|------------------------------------------|---------------|--------------------------|
| ANALYSIS: Meta                          | ls - Mercury - | RCRA               |                                          | Method Ref:   | 7471A                    |
| Date Analyzed:                          | 5/14/98        | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units: | mg/Kg                    |
| Analyte Name                            |                |                    | Analytical Resul                         | lts <u>Re</u> | ported Detection Limits  |
| Mercury                                 |                |                    | <rdl< td=""><td></td><td>0.5</td></rdl<> |               | 0.5                      |
| ANALYSIS: X B                           | TEX QC Surro   | ogates (Soils)     |                                          | Method Ref:   | 5030A/8021B              |
| Date Analyzed:                          | 5/17/98        | Date Ext/Dig/Prep: | 5/17/98                                  | Result Units: | %                        |
| Analyte Name                            |                |                    | Analytical Resu                          | <u>lts Re</u> | ported Detection Limits  |
| 1,4-Difluorobenzen<br>4-Bromofluorobenz |                |                    | 102<br>110                               |               | 0<br>0                   |
| ANALYSIS: X D                           | RO QC Surrog   | gates (Soil)       |                                          | Method Ref:   | 3550B/8015B              |
| Date Analyzed:                          | 5/17/98        | Date Ext/Dig/Prep: | 5/15/98                                  | Result Units: | %                        |
| Analyte Name                            |                |                    | Analytical Resu                          | <u>lts Re</u> | ported Detection Limits  |
| o-Terphenyl                             |                |                    | See narrati                              | ve            | 0                        |
| <u>ANALYSIS: X G</u>                    | RO QC Surro    | gates (Soils)      |                                          | Method Ref:   | 5030A/8015B              |
| Date Analyzed:                          | 5/17/98        | Date Ext/Dig/Prep: | 5/17/98                                  | Result Units: | %                        |
| Analyte Name                            |                |                    | Analytical Resu                          | <u>lts Re</u> | eported Detection Limits |
| 1,4-Difluorobenzer<br>4-Bromofluoroben  |                |                    | 75<br>63                                 |               | 0<br>0                   |
|                                         |                |                    |                                          |               |                          |

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# ACCUR ANALYTICAL LABORATOR INC

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

#### LABORATORY REPORT

#### Accura Sample ID #: AB43382 Accura Project #: 16546 Client: Grace Oil Date Sampled: 5/7/98 Client Contact: MITCH MORRIS Date Received: 5/9/98 Client Project Number: NA Date Reported: 5/19/98 Client Project Name: SALTY BILL PIT CLOSURE Sample Matrix: SOIL **Client Sample ID:** 22-CG **ANALYSIS: BTEX** Method Ref: 5030A/8021B Date Analyzed: 5/17/98 Date Ext/Dig/Prep: 5/17/98 Result Units: ug/Kg **Reported Detection Limits** Analyte Name Analytical Results 5 Benzene <RDL Ethyl benzene <RDL 5 Toluene <RDL 5 **Xylenes** <RDL 5 Method Ref: 325.3M ANALYSIS: Chloride in Soil Date Analyzed: 5/14/98 Date Ext/Dig/Prep: 5/14/98 Result Units: mg/Kg Analyte Name **Reported Detection Limits** Analytical Results Chloride 40,000 1000 ANALYSIS: Diesel Range Organics (DRO) Method Ref: 3550B/8015B Date Ext/Dig/Prep: 5/15/98 Date Analyzed: 5/17/98 Result Units: mg/Kg Analyte Name **Analytical Results Reported Detection Limits**

Diesel Range Organics (DRO) 560 200 Method Ref: 5030A/8015B ANALYSIS: Gasoline Range Organics (GRO) Date Analyzed: 5/17/98 Date Ext/Dig/Prep: 5/17/98 Result Units: mg/kg Analyte Name **Reported Detection Limits** Analytical Results Gasoline Range Organics <RDL 10 **ANALYSIS: Metals** Method Ref: 3050B/6010B Date Analyzed: 5/15/98 Date Ext/Dig/Prep: 5/12/98 **Result Units:** mg/Kg Analyte Name Analytical Results Reported Detection Limits ACCURA ANALYTICAL LABORATORY, INC. <RDL = Less than Reported Detection Limit Pg 43 of 46

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Client Sample ID: 22-CG

AALSample ID #: AB43382 Accura Project #: 16546

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|   | Selenium                                  |                        |                    | 25                                       |                | - 5                      |
|---|-------------------------------------------|------------------------|--------------------|------------------------------------------|----------------|--------------------------|
| - | ANALYSIS: Metals                          | <u>s - Mercury - R</u> | CRA                |                                          | Method Ref:    | 7471A                    |
|   | Date Analyzed:                            | 5/14/98                | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units:  | mg/Kg                    |
|   | Analyte Name                              |                        |                    | Analytical Resul                         | <u>ts Re</u>   | ported Detection Limits  |
|   | Mercury                                   |                        |                    | <rdl< td=""><td></td><td>0.5</td></rdl<> |                | 0.5                      |
|   | ANALYSIS: X BT                            | EX QC Surrog           | ates (Soils)       |                                          | Method Ref:    | 5030A/8021B              |
|   | Date Analyzed:                            | 5/17/98                | Date Ext/Dig/Prep: | 5/17/98                                  | Result Units:  | %                        |
|   | Analyte Name                              |                        |                    | Analytical Resul                         | <u>ts Re</u>   | ported Detection Limits  |
|   | 1,4-Difluorobenzene<br>4-Bromofluorobenze |                        |                    | 99<br>113                                |                | 0<br>0                   |
|   | ANALYSIS: X DR                            | <u>O QC Surroga</u>    | ites (Soil)        |                                          | Method Ref:    | 3550B/8015B              |
|   | Date Analyzed:                            | 5/17/98                | Date Ext/Dig/Prep: | 5/15/98                                  | Result Units:  | %                        |
|   | Analyte Name                              |                        |                    | Analytical Resul                         | lts <u>R</u> e | eported Detection Limits |
|   | o-Terphenyl                               |                        |                    | See narrati                              | ve             | 0                        |
|   | ANALYSIS: X GR                            | O QC Surroga           | ates (Soils)       |                                          | Method Ref:    | 5030A/8015B              |
|   | Date Analyzed:                            | 5/17/98                | Date Ext/Dig/Prep: | 5/17/98                                  | Result Units:  | %                        |
|   | Analyte Name                              |                        |                    | Analytical Resul                         | lts <u>Re</u>  | eported Detection Limits |
|   | 1,4-Difluorobenzene<br>4-Bromofluorobenze |                        |                    | 79<br>64                                 |                | 0<br>0                   |
|   |                                           |                        |                    |                                          |                |                          |

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ACCUR ANALYTICAL LABORATOR INC. 6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 SC Certification # 98015 USACE-MRD Approved

NC Certification # 483

LABORATORY REPORT

| Accura Sample ID #: AB43383 |               |                                                                                                         | Accura Project #: 16546                                       |                 |                          |
|-----------------------------|---------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------|--------------------------|
| Client: Grace Oil           |               |                                                                                                         |                                                               | Date            | Sampled: 5/7/98          |
| Client Contact: M           | ITCH MORRI    | S                                                                                                       |                                                               | Date            | e Received: 5/9/98       |
| Client Project Num          | per: NA       |                                                                                                         |                                                               | Date            | e Reported: 5/19/98      |
| Client Project Name         | e: SALTY E    | BILL PIT CLOSURE                                                                                        |                                                               | Sam             | ple Matrix: SOIL         |
| Client Sample ID:           | METH          | OD BLANK                                                                                                |                                                               |                 |                          |
|                             | ·             |                                                                                                         |                                                               |                 |                          |
| ANALYSIS: BTE               | x             |                                                                                                         |                                                               | Method Ref:     | 5030A/8021B              |
| Date Analyzed:              | 5/15/98       | Date Ext/Dig/Prep:                                                                                      | 5/15/98                                                       | Result Units:   | ug/Kg                    |
| Analyte Name                |               |                                                                                                         | Analytical Result                                             | <u>s Re</u>     | ported Detection Limits  |
| Benzene                     |               |                                                                                                         | <rdl< td=""><td></td><td>5</td></rdl<>                        |                 | 5                        |
| Ethyl benzene               |               |                                                                                                         | <rdl< td=""><td></td><td>5</td></rdl<>                        |                 | 5                        |
| Toluene<br>Xylenes          |               |                                                                                                         | <rdl<br><rdl< td=""><td></td><td>5<br/>5</td></rdl<></rdl<br> |                 | 5<br>5                   |
|                             |               |                                                                                                         | ADE                                                           |                 | 5                        |
| ANALYSIS: Chlo              | ride in Soil  |                                                                                                         |                                                               | Method Ref:     | 325.3M                   |
| Date Analyzed:              | 5/14/98       | Date Ext/Dig/Prep:                                                                                      | 5/14/98                                                       | Result Units:   | mg/Kg                    |
| Analyte Name                |               |                                                                                                         | Analytical Result                                             | <u>s Re</u>     | eported Detection Limits |
| Chloride                    |               |                                                                                                         | <rdl< td=""><td></td><td>10</td></rdl<>                       |                 | 10                       |
| ANALYSIS: Diese             | el Range Orga | nics (DRO)                                                                                              |                                                               | Method Ref:     | 3550B/8015B              |
| Date Analyzed:              | 5/15/98       | Date Ext/Dig/Prep:                                                                                      | 5/15/98                                                       | Result Units:   | mg/Kg                    |
| Analyte Name                |               |                                                                                                         | Analytical Result                                             | <u>s Re</u>     | eported Detection Limits |
| Diesel Range Organ          | nics (DRO)    |                                                                                                         | <rdl< td=""><td></td><td>10</td></rdl<>                       |                 | 10                       |
| ANALYSIS: Gaso              | line Range Or | ganics (GRO)                                                                                            |                                                               | Method Ref:     | 5030A/8015B              |
| Date Analyzed:              | 5/15/98       | Date Ext/Dig/Prep:                                                                                      | 5/15/98                                                       | Result Units:   |                          |
| Analyte Name                |               |                                                                                                         | Analytical Result                                             |                 | eported Detection Limits |
|                             |               |                                                                                                         |                                                               | <u>5 IC</u>     |                          |
| Gasoline Range Or           | ganics        |                                                                                                         | <rdl< td=""><td></td><td>10</td></rdl<>                       |                 | 10                       |
| ANALYSIS: Meta              | als           |                                                                                                         |                                                               | Method Ref:     | 3050B/6010B              |
| Date Analyzed:              | 5/15/98       | Date Ext/Dig/Prep:                                                                                      | 5/12/98                                                       | Result Units:   | mg/Kg                    |
| Analyte Name                |               |                                                                                                         | Analytical Result                                             | t <u>s R</u>    | eported Detection Limits |
| ACCURA ANALYTIC             | AL LABORATOR  | XY. INC. <rdl< td=""><td>= Less than Reported [</td><td>Detection Limit</td><td>Pg 45 of 46</td></rdl<> | = Less than Reported [                                        | Detection Limit | Pg 45 of 46              |
| Client Sample ID: N         |               |                                                                                                         | •                                                             |                 | Accura Project #: 16546  |
| ••••••                      | ,             |                                                                                                         | ·                                                             |                 | -j                       |

|   | Selenium                                  | y v                |                    | <rdl< th=""><th></th><th>5</th></rdl<>   |               | 5                       |
|---|-------------------------------------------|--------------------|--------------------|------------------------------------------|---------------|-------------------------|
| • | ANALYSIS: Metal                           | ls - Mercury ·     | - RCRA             |                                          | Method Ref:   | 7471A                   |
|   | Date Analyzed:                            | 5/14/98            | Date Ext/Dig/Prep: | 5/14/98                                  | Result Units: | mg/Kg                   |
|   | Analyte Name                              |                    |                    | Analytical Resu                          | <u>lts Re</u> | ported Detection Limits |
|   | Mercury                                   |                    |                    | <rdl< td=""><td></td><td>0.5</td></rdl<> |               | 0.5                     |
|   | ANALYSIS: X_BT                            | <u>TEX QC Surr</u> | ogates (Soils)     |                                          | Method Ref:   | 5030A/8021B             |
|   | Date Analyzed:                            | 5/15/98            | Date Ext/Dig/Prep: | 5/15/98                                  | Result Units: | %                       |
|   | Analyte Name                              |                    |                    | Analytical Resu                          | <u>lts Re</u> | ported Detection Limits |
|   | 1,4-Difluorobenzene<br>4-Bromofluorobenze |                    |                    | 102<br>102                               |               | 0<br>0                  |
|   | ANALYSIS: X DF                            | RO QC Surro        | gates (Soil)       |                                          | Method Ref:   | 3550B/8015B             |
|   | Date Analyzed:                            | 5/15/98            | Date Ext/Dig/Prep: | 5/15/98                                  | Result Units: | %                       |
|   | Analyte Name                              |                    |                    | Analytical Resu                          | <u>lts Re</u> | ported Detection Limits |
|   | o-Terphenyl                               |                    |                    | 94                                       |               | 0                       |
|   | ANALYSIS: X GI                            | RO QC Surro        | ogates (Soils)     |                                          | Method Ref:   | 5030A/8015B             |
|   | Date Analyzed:                            | 5/15/98            | Date Ext/Dig/Prep: | 5/15/98                                  | Result Units: | %                       |
|   | Analyte Name                              |                    |                    | Analytical Resu                          | <u>lts Re</u> | ported Detection Limits |
|   | 1,4-Difluorobenzen<br>4-Bromofluorobenz   |                    |                    | 87<br>62                                 |               | 0<br>0                  |
|   |                                           |                    |                    |                                          |               |                         |

Anill

Accura Analytical Laboratory, Inc.

From Miller Hall Bar

Client Sample ID: METHOD BLANK

- 13

AALSample ID #: AB43383 Accura Project #: 16546



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

June 16, 1998

#### CERTIFIED MAIL RETURN RECEIPT NO. P.326-936-455

Ms. Corinne B. Grace P.O. Box 1418 3722 National Parks Hwy. Carlsbad, N.M. 88220

#### Re: Salty Bills Water Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Dear Ms. Grace:

The New Mexico Oil Conservation Division (OCD) received the Salty Bill Salt Water Disposal Facility's (Salty Bill) letter dated May 22, 1998 concerning the above-referenced water disposal facility remediation. The OCD hereby approves the deadline extension request from May 29, 1998 to June 29, 1998. In order for Salty Bill to complete the investigation and remediation at the Salt Water Disposal Facility.

Salty Bill shall submit a final closure report to the OCD Santa Fe and Artesia District offices no later than June 29, 1998.

If you have any additional questions, please contact me at (505) 827-7153.

Sincerely,

xc:

Mortyne of Theling

Martyne J. Kieling Environmental Geologist

> Artesia OCD Office Mark Weidler, NMED, Secretary John Tymkowych, NMED, HRMB Marcy Leavitt, Chief, NMED, GWQB Robert Young, SLO Jim Carr, SLO Carlsbad John Waters, Carlsbad Environmental Services Jim Trustly, USEPA, Region 6

;

Corinne B. Grace rost office BOX 1418 carlsbad, New MEXICO 88220

(505) 887-5581

May 22, 1998

Sent Via Fax to (505) 827-8177

Ms. Martyne J. Kieling Environmental Geologist New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

> Re: Salty Bill Water Disposal Facility NE/4, NW/4 Sec. 36, T22S, R26E, NMPM Eddy County, New Mexico

Dear Ms. Kieling:

We would like to request an extension of the May 29, 1998 deadline for the Final Pit Closure Report on the above captioned facility. In order to allow plenty of time for the remaining work we request a 30 day extension until June 29, 1998.

If you should have any questions, please give us a call at (505) 887-5581.

Thanks for your cooperation.

Very truly yours,

Mitchell Norris

Mitchell Morris

MM cc: Gene Lee

;

| COR  | INNE                                  | Β.                                            | GRACE   |
|------|---------------------------------------|-----------------------------------------------|---------|
| 1000 | · · · · · · · · · · · · · · · · · · · | <u>, , , , , , , , , , , , , , , , , , , </u> | <u></u> |

3722 National Parks Hwy. P.O. Box 1418 Carlsbad, N.M. 88221-1418

| (505) | 887-5581 |  | FAX: | (505) | 885-8497 |
|-------|----------|--|------|-------|----------|
|-------|----------|--|------|-------|----------|

\* \* \* \* \*

5/26/98 DATE:

PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

| NAME: <u>Martyne Kieling</u>                  |
|-----------------------------------------------|
| FIRM: OCD                                     |
| FAX NO: (505) 827-8177                        |
| FROM: Mitch Maria                             |
| TOTAL NUMBER OF PAGES INCLUDING COVER PAGE: 2 |
| BRIEF DESCRIPTION OF TRANSMITTAL:             |
| · · · · · · · · · · · · · · · · · · ·         |
| ·                                             |
|                                               |
|                                               |

If you DO NOT receive all the pages indicated above, please call us back as soon as possible.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

Î

### MEMORANDUM OF MEETING OR CONVERSATION

| Telephone Personal                    | Time<br>8:45                          | Date 4/ /15/98                                   |
|---------------------------------------|---------------------------------------|--------------------------------------------------|
| Originating Party                     | 4                                     | Other Parties                                    |
| Martyne Kicling                       |                                       | Gene Lee Consulting                              |
| •                                     |                                       | Gene Lee (onsulfing<br>For Corinne Grad SalhBill |
| Subject                               |                                       | ·                                                |
| Status of Clemup                      |                                       |                                                  |
| /                                     |                                       |                                                  |
| Discussion<br>Will be Sendin          | a 72 ho                               | un Notice to SF + Attesia                        |
| office Pit Remediati                  | on to start                           | Followed by Sumps 4                              |
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| Conclusions or Agreements             | ,,                                    |                                                  |
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This is to certify that the City of Carlsbad is the surface owner involved in the attached application by Corinne Grace to dispose of salt water by injection into a porous formation, and hereby certifies that it has no objections to the granting of the permit sought and waives all rights of protest.

The gas well involved is the City of Carlsbad #1 located in Section 25, Township 22 South, Range 26 East, Eddy County, New Mexico.

Walter Jerrech

SEAL

ATTEST:

IArles

FILMS Э OPERATOR



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

March 24, 1998

#### CERTIFIED MAIL RETURN RECEIPT NO. P.326-936-408

Ms. Corinne B. Grace P.O. Box 1418 3722 National Parks Hwy. Carlsbad, N.M. 88220

#### Re: Salty Bills Water Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Dear Ms. Grace:

The New Mexico Oil Conservation Division (OCD) received Salty Bill Salt Water Disposal Facility's (Salty Bill) letter dated February 12, 1998 concerning the above-referenced water disposal facility remediation. The OCD has found that the pit closure plan submitted by Lee Consulting, Inc. for Salty Bill is complete with the conditions outlined in the OCD December 12, 1997 letter. The OCD Santa Fe and Artesia District offices shall be notified **three (3) days** prior to each phase of the investigation and remediation. As written in the pit closure and soil remediation plan, the final confirmatory samples will be analyzed at a third party laboratory for WQCC metals including mercury and selenium; chloride, volatile organic compounds (VOC) by EPA method 8240, benzene, toluene, ethylbenzene, xylene (BTEX) and total petroleum hydrocarbons (TPH) in accordance with the OCD's "Surface Impoundment Closure Guidelines" prior to backfilling the pit, sumps or other excavations.

Salty Bill shall submit a final closure report to the OCD Santa Fe and Artesia District offices no later than May 29, 1998.

If you have any additional questions, please contact me at (505) 827-7153.

Sincerely,

Martyne J. Kieling Environmental Geologist

xc: Artesia OCD Office Mark Weidler, NMED, Secretary John Tymkowych, HRMB Marcy Leavitt, Chief, GWQB Gene Lee, Lee Consulting, Inc. Ms. Corinne B. Grace March 24, 1998 Page 2

> John Waters, Carlsbad Environmental Services Jim Trustly, USEPA, Region 6

DChain of costaly-to 60-2) Map with Scuple Locations Cross Ref # on Analysis CG T, Pump Station 1-9 - 1+07 66-14022 T-1to7 Got BTex 3) Depth of Surple BGS S) Depind on Super DOS (See Much 24, 1998 Letter a Dec 12,1997 letter Genelee Lettes Feb 12, 1998 Metals tology As By Culler Pb (Hy) (Se) Ag / VOL 8240/179H

## LEE CONSULTING, INC. P.O. Box 8280 Roswell, NM 88202 505-622-7355 505-624-2911 Fax 505-626-4292 Cellular

February 12, 1998

Martyne J. Kieling New Mexico Oil Conservation Division Environmental Bureau 2040 S. Pacheco St. Santa Fe, NM 87505



## RE: Mrs. Corinne B. Grace Salty Bill SWD Facility

Dear Ms. Kieling,

Salty Bill SWD is in receipt of your letter dated February 3, 1998. After discussion on the telephone with your office Feb. 3, 1998, I have contacted my client and feel that the closure plan previously submitted will be followed.

At this time, Salty Bill SWD is prepared to commence closure of the pits and will follow the pit closure plan submitted pursuant to your conditions spelled out in the OCD letter dated December 12, 1997.

Please find enclosed a copy of the permit issued by the OCD office in Artesia giving permission to haul free water off of the pits at the site to CRI, Inc. In the future, anything hauled from the SWD site will obtain permission from your Santa Fe office.

Your office and the Artesia, NM office of the OCD will be notified three (3) days in advance of any proposed work to allow scheduling of personnel to witness sampling, etc. Salty Bill SWD plans to commence pit closure and remediation activities within the next 30 days. This time frame is proposed in order to arrange hauling of materials removed by an authorized transporter to an authorized disposal site.

If you have any further questions, please contact me at the above address or telephone numbers.

Sincere H. E. Géne LEE

cc: Grace Oil Co. OCD Artesia

| DISTRICT I<br>P.O.Box 1980   | , Hobbs, NM 88241-1980                  | Energy, Minerals and Natur                                  | al Resources Department                | Form C-117 A               |
|------------------------------|-----------------------------------------|-------------------------------------------------------------|----------------------------------------|----------------------------|
| DISTRICT II<br>P.O. Drawer I | DD, Artesia, NM 88211-0719              | <b>O</b> OIL CONSERVAT                                      |                                        | Revised 4-1-91             |
| DISTRICT III                 | l ·                                     | P.O. Box                                                    |                                        | _                          |
| 1000 Rio Braz                | 2018 Rd, Aziec, NM 87410                | Santa Fc, New Mex                                           | .ico 87504-2088 P                      | ERMIT NO. <u>A 10627</u>   |
|                              | <b>4</b>                                | EMOVAL, TRANSPORTATION O                                    | F MISCELLANEOUS HYDROCARI              | BONS AND DISPOSAL PERMIT   |
| Operator or Own              | er Corrine Grace                        |                                                             | Address 3722 7/01/ 4                   | s. 2 kuy, Crebbad          |
| Lease or Facility            | Name_Salty Bill                         | Sult                                                        | Location Jon 3                         | 123 Kaloe                  |
| OPERATION                    | TO BE PERFORMED:                        |                                                             |                                        | U.L. • Sec. • 1 wp. • Age. |
|                              |                                         |                                                             | Transportation of Miscellaneous Hydroc | arbons                     |
|                              | Operator or Owner Represent             |                                                             | 1 Стасе                                | NUL 1887 -                 |
|                              | Date Work to be Performed 7             |                                                             |                                        | RECEIVED                   |
|                              | TANK CLEANING DA                        |                                                             | Volume                                 | OCD ARTESIA                |
|                              | SEDIMENT OIL OR M                       | Tank Type<br>ISCELLANEOUS HYDROCAR                          | Volume Below Lo<br>RBON DATA           | ad Line                    |
|                              | Sediment Oil from:                      | ] Pit [] Cellar [] Other                                    |                                        | C 20075.0                  |
| а <b>с</b>                   | MISCELLANEOUS OII Tank Bottoms From:    | L<br>Pipeline Station 🔲 Crude Term                          | inal 🗌 Refinery 🔲 Othe                 | r*                         |
|                              | Catchings From: 🔲 Gasoli                | ne Plant 📋 Gathering Lines 🕑                                | Salt Water Disposal System             | Other*                     |
|                              | Pipeline Break Oil or Spill             |                                                             |                                        |                            |
|                              | •Other (Explain)                        |                                                             |                                        | ·····                      |
| DESTRUCTI                    | ON OF SEDIMENT OIL                      | BY: Durning                                                 | Pit Disposal 🗍 Use on l                | Roads or firewalls 🗍 Other |
|                              | (Explain)                               |                                                             |                                        |                            |
|                              | Location of Destruction                 |                                                             |                                        |                            |
|                              | Justification of Destruction            |                                                             |                                        |                            |
| CERTIFICAT                   | TION : (APPLICATION MAY                 | BE MADE BY EITHER OF THE FOI                                | LLOWING)                               |                            |
|                              |                                         | is the bid complete to be best of my                        | Arna                                   | Ina                        |
|                              |                                         |                                                             |                                        | artsbad nm 88220           |
|                              |                                         |                                                             | Signature Ling R                       | · ·                        |
|                              | Date                                    |                                                             | Tile Olhie Mind                        | Date <u>11-19-97</u>       |
| )IL CONSER                   | AND AND AND AND AND AND AND AND AND AND | DV.                                                         |                                        |                            |
| pproved By                   | BETTY ROLLINS                           | DT Title                                                    |                                        | Date NOV 2 4 1997          |
|                              | •                                       | t                                                           |                                        | DISTRIBUTION BY OCD        |
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| OR MISCELLANI                | EOUS HYDROCARBONS AT 11                 | IE TREATING PLANT TO WILICH I                               | T IS DELIVERED.                        | 1 Operator                 |
|                              |                                         |                                                             |                                        | Transporter (2)            |
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|                              |                                         | N                                                           |                                        |                            |

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CORINNE B. GRACE

#1

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| 3722    | National Parks Hwy. P.O. Box 1418<br>Carlsbad, N.M. 88221-1418 |
|---------|----------------------------------------------------------------|
| (505)   | 887-5581 FAX: (505) 885-8497                                   |
|         | * * * * * *                                                    |
|         | DATE: 2/16/98                                                  |
| PLEASE  | DELIVER THE FOLLOWING PAGE(S) TO:                              |
| NAME: _ | Martyne Kieling                                                |
| FIRM: _ | OCD                                                            |
| FAX NO: |                                                                |
| FROM: _ | Mitchell Morris                                                |
|         | ·                                                              |
| TOTAL N | NUMBER OF PAGES INCLUDING COVER PAGE: 3                        |
| BRIEF I | DESCRIPTION OF TRANSMITTAL:                                    |
|         | Dene Lee Response                                              |
|         | ٧<br>                                                          |
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If you DO NOT receive all the pages indicated above, please call us back as soon as possible.

A RICHL

LEE CONSULTING, INC. P.O. Box 8280 Roswell, NM 88202 505-622-7355 505-624-2911 Fax 505-626-4292 Cellular BEGEWED

FEB 1 € 1998

Environmental Bureau Oil Conservation Division

February 12, 1998

Martyne J. Kieling New Mexico Oil Conservation Division Environmental Bureau 2040 S. Pacheco St. Santa Fe, NM 87505

#### RE: Mrs. Corinne B. Grace Salty Bill SWD Facility

Dear Ms. Kieling,

Salty Bill SWD is in receipt of your letter dated February 3, 1998. After discussion on the telephone with your office Feb. 3, 1998, I have contacted my client and feel that the closure plan previously submitted will be followed.

At this time, Salty Bill SWD is prepared to commence closure of the pits and will follow the pit closure plan submitted pursuant to your conditions spelled out in the OCD letter dated December 12, 1997.

Please find enclosed a copy of the permit issued by the OCD office in Artesia giving permission to haul free water off of the pits at the site to CRI, Inc. In the future, anything hauled from the SWD site will obtain permission from your Santa Fe office.

Your office and the Artesia, NM office of the OCD will be notified three (3) days in advance of any proposed work to allow scheduling of personnel to witness sampling, etc. Salty Bill SWD plans to commence pit closure and remediation activities within the next 30 days. This time frame is proposed in order to arrange hauling of materials removed by an authorized transporter to an authorized disposal site.

If you have any further questions, please contact me at the above address or telephone numbers.

Sincerø H. E. Géne L

cc: Grace Oil Co. OCD Artesia

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| SENT BY: GRACE OIL;                                   | 2-16-98 9:08AM; 5058858497 =>                                                                                                          | ; #3/3                                                                                     |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| DISTRICT I<br>P.O.Box 1980, Hobbs, NM 88241-1980      | Bigy, Minerals and Natural Resources Do                                                                                                |                                                                                            |
| DISTRICT II                                           |                                                                                                                                        | Revised 4-1-91                                                                             |
| P.O. Drawer DD, Artesia, NM 88211-0719                | OIL CONSERVATION DIVIS<br>P.O. Box 2088                                                                                                | ION                                                                                        |
| DISTRICTIII<br>1000 Rio Brazes Rd, Aztec, NM 87410    | Santa Fe, New Mexico 87504-2081                                                                                                        | PERMIT NO. A - 10/227                                                                      |
| TANK CLEANING. SEDIMENT OIL F                         | REMOVAL, TRANSPORTATION OF MISCELLANED                                                                                                 | DUS HYDROCARBONS AND DISPOSAL PERMIT                                                       |
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| OFERATION TO BE PERFORMED:<br>Tank Cleaning           |                                                                                                                                        | fincellaneous Hydrocarbons                                                                 |
|                                                       | Hative authorizing work Correince Grace                                                                                                |                                                                                            |
| Date Work to be Performed                             |                                                                                                                                        | NUV, 1882                                                                                  |
| TANK CLEANING DA                                      | ( Tank Number                                                                                                                          | VolumeOCD_ARTESIA                                                                          |
|                                                       | Tank Type                                                                                                                              | Volume Below Lord Line                                                                     |
| SEDIMENT OIL OR A                                     | AISCELLANEOUS HYDROCARBON DATA                                                                                                         | Second St                                                                                  |
| Sediment Oil from:                                    | Pit Callar Other                                                                                                                       |                                                                                            |
| MISCELLANEOUS OF<br>Tank Bottoms From:                | LL<br>Pipeline Station Crude Terminal Refine                                                                                           | ery 🔲 Other*                                                                               |
|                                                       | Line Flant Gathering Lines Salt Water Dispo                                                                                            | ,                                                                                          |
| Pipeline Break Oil or Spill                           |                                                                                                                                        | nal System [] Other*                                                                       |
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| YOLUME AND DESTINATION:<br>Destination (Name and Loca | Estimated Volume Bbls.<br>ation of treating plant or other (acility)                                                                   | Find test volume of good oilBbls.<br>(Not required prior to Division approved)<br>GRALENG, |
| DESTRUCTION OF SEDIMENT ()11<br>(Explain)             | BX: Duming . Pit Dispo                                                                                                                 | sal []] Use on Roads or finewalls [] Other                                                 |
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| By                                                    | Address Z                                                                                                                              | Boy Hoss, Carlabad n. M. 88220                                                             |
| Tide                                                  | Signature                                                                                                                              | Lica Brie                                                                                  |
| Date                                                  | Title                                                                                                                                  | file 71/109 Dave 11-19-97                                                                  |
| OIL CONSERVATION DIVISION<br>ORIGINAL SIGNED          | ν.<br>V                                                                                                                                | ý ů                                                                                        |
| Approved By BETTY ROLLINS                             | ) BY Title                                                                                                                             | Dmc NOV 2 4 1997                                                                           |
| MISCELLANEOUS HYDROCARBONS, AND MI                    | ON DURING TANK CLEANING, REMOVAL OF SEDIN<br>UST BE PRESENTED WITH TANK BOTTOMS, SEDIM<br>HIE TREATING PLANT TO WHICH IT IS DELIVERED. | MENT OIL OR                                                                                |
|                                                       |                                                                                                                                        |                                                                                            |

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# MEMORANDUM OF CONVERSATION

TELEPHONE \_\_\_\_PERSONAL TIME  $\frac{8:44}{2:00}$  DATE  $\frac{2/3}{99}$ ORIGINATTING PARTY Martyne Kiching For Salty Bill **OTHER PARTIES** DISCUSSION To Return Call at 2:00 From Grace Headquarters At 2:00 Roger Anderson & Martyne Kieling Talked with GeneLee. OCD Notified Genelee Salty Bills Contractor That Salty Bill Ms Corrine Grace: Most Agreeto the Conditions in the letter Aproving Cleanup of the Facility with Conditions, Genelee Said He would talk with his customer and worded Reply to the letter concerning this Issue that would be written on 2/3/98. If the An agreement to OCD terms was Not Met by Sally Bill Corinne Grace This Matter would go to Hearing. Arephwillberredd by Feb 16th or Hearing with CONCLUSIONS

CHERIS EUSTICE / Muthynes ging



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

February 3, 1998

#### CERTIFIED MAIL RETURN RECEIPT NO. P.326-936-380

Ms. Corinne B. Grace P.O. Box 1418 3722 National Parks Hwy. Carlsbad, N.M. 88220

## Re: Salty Bills Water Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Dear Ms. Grace:

The New Mexico Oil Conservation Division (OCD) has reviewed Salty Bill Salt Water Disposal Facility's (Salty Bill) December 15, 1997 letter. This document was submitted on behalf of Salty Bill by their consultant Lee Consulting, Inc.

The response by Salty Bill failed to commit to the pit closure plan conditions listed in the OCD letter dated December 12, 1997. Pit and facility cleanup levels stipulated in condition 5 (five) of the OCD referenced letter shall be followed. Pursuant to NMSA Chapter 70, Article 2-12.B.22 the OCC has the power to regulate the disposition of nondomestic wastes resulting from the oil and gas industry in order to **protect public health and the environment**, including administering the Water Quality Act. Therefor, more stringent cleanup levels than those outlined in OCD surface impoundment closure guidelines may be required of an operator.

Failure to commit to the conditions listed in the above referenced OCD letter by **February 16**, **1998** may result in a show cause hearing against Salty Bill, requiring Salty Bill to appear and show cause why it should not be ordered to close these pits and why it should not also be assessed civil penalties.

In regards to the OCD telephone conversation on February 3, 1998, 2:00 PM with Mr. Gene Lee of Lee Consulting, Inc., Salty Bill shall supply the OCD with copies of all paperwork involved in the transport and disposal of waters from the pits. In addition, all future waste, ie. water, oil,

Ms. Corinne B. Grace February 3, 1998 Page 2

sludge, soil, removal must be approved by the Santa Fe office prior to removal and transport. Please note condition 2 (two) of the OCD December 12, 1998 letter.

If you require any further information, please contact me at (505) 827-7153.

Sincerely,

2 Hartym

Martyne J. Kieling Environmental Geologist

xc:

Artesia OCD Office Mark Weidler, NMED, Secretary John Tymkowych, HRMB Marcy Leavitt, Chief, GWQB Gene Lee, Lee Consulting, Inc. John Waters, Carlsbad Environmental Services Jim Trustly, USEPA, Region 6



# NEW MEXICO RERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

February 3, 1998

### CERTIFIED MAIL RETURN RECEIPT NO. P.326-936-391

Ms. Corinne B. Grace P.O. Box 1418 3722 National Parks Hwy. Carlsbad, N.M. 88220

## Re: Salty Bills Water Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Dear Ms. Grace:

Enclosed please find copies of the analytical results for the samples taken by the OCD on October 28, 1997. The samples numbered 9710280910 and 9710281105 were taken from primary off-loading tank at the Salty Bill SWD facility.

If you require any further information, please contact me at (505) 827-7153.

Sincerely,

artym Ihn

Martyne J. Kieling Environmental Geologist

xc: Artesia OCD OfficeJohn Tymkowych, HRMBJohn Waters, Carlsbad Environmental Services



Bill N.M. Oil Conservation Division To: 2040 South Pacheco Santa Fe, NM 87505

Client #: 810-134

Original

Project Name: Salty Bill Project #: Salty Bill

Date

1/ 8/98

Invoice

77187

|                      | LANCE DUE:                     | 200.00             |           |        |       |           |
|----------------------|--------------------------------|--------------------|-----------|--------|-------|-----------|
| Dr                   |                                | 200.00             | PO Number | Terms  | ]     | Project   |
|                      |                                |                    |           | Net 30 | AEI   | N ALB-810 |
| Quantity             |                                | Descriptio         | n         | Rat    | e     | Amount    |
| 1                    | 6010 Metals                    | <u>V</u> E<br>1998 |           | 200    | .00   | 200.0     |
| Accessic<br>Authoriz | on #: 801310<br>zed by: Bill C | lson               |           | Т      | OTAL: | 200.0     |

A finance charge of 1½% will be charged on balances 30 days past due DISTRIBUTION: White-Customer, Yellow-File, Pink-Accounting

2709-D Pan American Freeway, NE • Albuquerque, NM 87107 • (505) 344-3777 • Fax (602) 344-4413

American Environmental Network, Inc.

AEN I.D.

January 8, 1998

NMOCD 2040 S. PACHECO SANTA FE, NM 87505

Project Name SALTY BILL Project Number SALTY BILL

Attention: BILL OLSON

On 10/29/97 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), 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.

AEN Accession number 710420 was released on December 17, 1997. Due to a misinterpretation of the COC, the ICP scan requested was not performed. The data was available from AEN (OR) and is submitted as AEN Accession number 801310.

We apologize in the delay of submitting the metal data to you and appreciate your patience and understanding.

All analyses were performed at American Environmental Network (OR) Inc., Portland, OR.

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

191 ....

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Kimberly D. McNeill Project Manager

MR: mt

Enclosure



American Environmental Network, Inc.

| : NMOCD            | AEN I.D.                                                         | : 801310                                                                                                                      |
|--------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| : SALTY BILL       | DATE RECEIVED                                                    | : 10/29/97                                                                                                                    |
| : SALTY BILL       | REPORT DATE                                                      | : 1/8/98                                                                                                                      |
|                    |                                                                  | DATE                                                                                                                          |
| CLIENT DESCRIPTION | MATRIX                                                           | COLLECTED                                                                                                                     |
| 9710280910         | AQ                                                               | 10/28/97                                                                                                                      |
| 9710281105         | AQ                                                               | 10/28/97                                                                                                                      |
|                    | : SALTY BILL<br>: SALTY BILL<br>CLIENT DESCRIPTION<br>9710280910 | : SALTY BILL     DATE RECEIVED       : SALTY BILL     REPORT DATE       CLIENT DESCRIPTION     MATRIX       9710280910     AQ |

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17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 684-0447

Marcia Smith AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044 Date: 01/07/1998 AEN Account No.: 80 AEN Job Number: 97.03081

Project: 710505 Location:

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

| Sample |                    | Matrix | Date       | Date       |
|--------|--------------------|--------|------------|------------|
| Number | Sample Description | Туре   | Taken      | Received   |
| 88188  | 710505-01          | Water  | 10/28/1997 | 12/04/1997 |

Approved by: Andi Hbevet Project Manager AEN, INC.

fechnical AEN, INC.

The results from these samples relate only to the items tested. This report shall not be reproduced, except in full, without the written approval of the laboratory.

Analytical Services for the Environment

# ANALYTICAL REPORT

Marcia Smith AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044 01/07/1998 Job No.: 97.03081

the test

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Page: 2

| Project Name:  | 710505     |
|----------------|------------|
| Date Received: | 12/04/1997 |

Sample Number 88188

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Sample Description 710505-01

| PARAMETERS               | METHODS | RESULTS | REPORT LIMIT | UNITS | DATE ANALYZED | FLAG  |
|--------------------------|---------|---------|--------------|-------|---------------|-------|
| ICP/AA Digestion - Water | ICP     | -       |              |       | 12/05/1997    |       |
| Aluminum, ICP            | 6010    | ND      | 5.00         | mg/L  | 12/09/1997    | DIL,Q |
| Antimony, ICP            | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Arsenic, ICP             | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Barium, ICP              | 6010    | 1.1     | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Beryllium, ICP           | 6010    | ND      | 0.2          | mg/L  | 12/09/1997    | DIL,Q |
| Boron, ICP               | 6010    | 15      | 1.00         | mg/L  | 12/09/1997    | DIL,Q |
| Cadmium, ICP             | 6010    | ND      | 0.2          | mg/L  | 12/09/1997    | DIL,Q |
| Calcium, ICP 200.7       | 200.7   | 2200    | 5.00         | mg/L  | 12/09/1997    | DIL,Q |
| Chromium, ICP            | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Cobalt, ICP              | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Copper, ICP              | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Iron, ICP                | 6010    | 3.0     | 1.00         | mg/L  | 12/09/1997    | DIL,Q |
| Lead, ICP                | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Magnesium, ICP 200.7     | 200.7   | 500     | 5.00         | mg/L  | 12/09/1997    | DIL,Q |
| Manganese, ICP           | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Molybdenum, ICP          | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Nickel, ICP              | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Potassium, ICP 200.7     | 200.7   | 980     | 20.0         | mg/L  | 12/09/1997    | DIL,Q |
| Selenium, ICP            | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Silver, ICP              | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Sodium, ICP 200.7        | 200.7   | 110000  | 2000         | mg/L  | 12/09/1997    | DIL,Q |
| Thallium, ICP            | 6010    | ND      | 1.00         | mg/L  | 12/09/1997    | DIL,Q |
| Vanadium, ICP            | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
| Zinc, ICP                | 6010    | ND      | 0.5          | mg/L  | 12/09/1997    | DIL,Q |
|                          |         |         |              |       |               |       |

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

American Environmental Network, Inc.(503)684-0447(503)620-0393FAX17400 SW Upper Boones Ferry Rd., Suite 270, Portland, OR 97224

## **OUALITY CONTROL REPORT** CONTINUING CALIBRATION VERIFICATION

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

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Date: 01/07/1998

Job Number: 97.03081

Contact: Marcia Smith Project: 710505

|                      | CCV           |               |          |            |
|----------------------|---------------|---------------|----------|------------|
|                      | True          | Concentration | Percent  | Date       |
| Analyte              | Concentration | Found         | Recovery | Analyzed   |
|                      |               |               |          |            |
| Aluminum, ICP        | 25.0          | 25.0          | 100.0    | 12/09/1997 |
| Antimony, ICP        | 0.500         | 0.490         | 98.0     | 12/09/1997 |
| Antimony, ICP        | 0.500         | 0.490         | 98.0     | 12/09/1997 |
| Arsenic, ICP         | 0.500         | 0.496         | 99.2     | 12/09/1997 |
| Barium, ICP          | 0.500         | 0.502         | 100.4    | 12/09/1997 |
| Beryllium, ICP       | 0.500         | 0.508         | 101.6    | 12/09/1997 |
| Beryllium, ICP       | 0.500         | 0.508         | 101.6    | 12/09/1997 |
| Boron, ICP           | 0.500         | 0.527         | 105.4    | 12/09/1997 |
| Cadmium, ICP         | 0.500         | 0.488         | 97.6     | 12/09/1997 |
| Cadmium, ICP         | 0.500         | 0.488         | 97.6     | 12/09/1997 |
| Calcium, ICP 200.7   | 25.0          | 24.0          | 96.0     | 12/09/1997 |
| Chromium, ICP        | 0.500         | 0.506         | 101.2    | 12/09/1997 |
| Cobalt, ICP          | 0.500         | 0.487         | 97.4     | 12/09/1997 |
| Copper, ICP          | 0.500         | 0.498         | 99.6     | 12/09/1997 |
| Iron, ICP            | 0.500         | 0.532         | 106.4    | 12/09/1997 |
| Lead, ICP            | 0.500         | 0.502         | 100.4    | 12/09/1997 |
| Magnesium, ICP 200.7 | 25.0          | 25.1          | 100.4    | 12/09/1997 |
| Molybdenum, ICP      | 0.500         | 0.493         | 98.6     | 12/09/1997 |
| Nickel, ICP          | 0.500         | 0.502         | 100.4    | 12/09/1997 |
| Potassium, ICP 200.7 | 5.00          | 4.83          | 96.6     | 12/09/1997 |
| Selenium, ICP        | 0.500         | 0.497         | 99.4     | 12/09/1997 |
| Selenium, ICP        | 0.500         | 0.497         | 99.4     | 12/09/1997 |
| Silver, ICP          | 0.500         | 0.496         | 99.2     | 12/09/1997 |
| Silver, ICP          | 0.500         | 0.496         | 99.2     | 12/09/1997 |
| Sodium, ICP 200.7    | 5.00          | 4.91          | 98.2     | 12/09/1997 |
| Thallium, ICP        | 0.500         | 0.498         | 99.6     | 12/09/1997 |
| Thallium, ICP        | 0.500         | 0.498         | 99.6     | 12/09/1997 |
| Vanadium, ICP        | 0.500         | 0.496         | 99.2     | 12/09/1997 |
| Zinc, ICP            | 0.500         | 0.495         | 99.0     | 12/09/1997 |
|                      |               |               |          |            |

CCV - Continuing Calibration Verification

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American Environmental Network, Inc. (503)684-0447 (503)620-0393 FAX 17400 SW Upper Boones Ferry Rd., Suite 270, Portland, OR 97224

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## **OUALITY CONTROL REPORT** LABORATORY CONTROL STANDARD

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

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#### Date: 01/07/1998

Job Number: 97.03081

Contact: Marcia Smith Project: 710505

|                      | LCS           |               |            |       |            |
|----------------------|---------------|---------------|------------|-------|------------|
|                      | True          | Concentration | LCS        |       | Date       |
| Analyte              | Concentration | Found         | % Recovery | Flags | Analyzed   |
| Aluminum, ICP        | 5.00          | 4.76          | 95.2       |       | 12/09/1997 |
| Antimony, ICP        | 0.500         | 0.479         | 95.8       |       | 12/09/1997 |
| Arsenic, ICP         | 0.500         | 0.489         | 97.8       |       | 12/09/1997 |
| Barium, ICP          | 0.500         | 0.484         | 96.8       |       | 12/09/1997 |
| Beryllium, ICP       | 0.500         | 0.492         | 98.4       |       | 12/09/1997 |
| Boron, ICP           | 0.500         | 0.524         | 104.8      |       | 12/09/1997 |
| Cadmium, ICP         | 0.500         | 0.461         | 92.2       |       | 12/09/1997 |
| Calcium, ICP 200.7   | 5.00          | 4.64          | 92.8       |       | 12/09/1997 |
| Chromium, ICP        | 0.500         | 0.476         | 95.2       |       | 12/09/1997 |
| Cobalt, ICP          | 0.500         | 0.472         | 94.4       |       | 12/09/1997 |
| Copper, ICP          | 0.500         | 0,487         | 97.4       |       | 12/09/1997 |
| Iron, ICP            | 2.00          | 2.04          | 102.0      |       | 12/09/1997 |
| Lead, ICP            | 0.500         | 0.459         | 91.8       |       | 12/09/1997 |
| Magnesium, ICP 200.7 | 5.00          | 4.86          | 97.2       |       | 12/09/1997 |
| Molybdenum, ICP      | 0.500         | 0.482         | 96.4       |       | 12/09/1997 |
| Nickel, ICP          | 0.500         | 0.461         | 92.2       |       | 12/09/1997 |
| Potassium, ICP 200.7 | 5.00          | 6.77          | 135.4      |       | 12/09/1997 |
| Selenium, ICP        | 0.500         | 0.476         | 95.2       |       | 12/09/1997 |
| Silver, ICP          | 0.500         | 0.455         | 91.0       |       | 12/09/1997 |
| Sodium, ICP 200.7    | 5.00          | 5.25          | 105.0      |       | 12/09/1997 |
| Thallium, ICP        | 0.500         | 0.449         | 89.8       |       | 12/09/1997 |
| Vanadium, ICP        | 0.500         | 0.497         | 99.4       |       | 12/09/1997 |
| Zinc, ICP            | 0.500         | 0.474         | 94.8       |       | 12/09/1997 |

LCS - Laboratory Control Standard

American Environmental Network , Inc. (503)684-0447 (503)620-0393 FAX 17400 SW Upper Boones Ferry Rd., Suite 270, Portland OR 97224

## OUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

#### Date: 01/07/1998

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Job Number: 97.03081

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

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Contact: Marcia Smith Project: 710505

|                      | Matrix<br>Spike | Sample | Spike  |       | Percent  | MSD    | MSD<br>Spike |       | Percent  | MS/MSD |            |
|----------------------|-----------------|--------|--------|-------|----------|--------|--------------|-------|----------|--------|------------|
| Analyte              | Result          | Result | Amount | Units | Recovery | Result | Amount       | Units | Recovery | RPD    | <b>D</b> ] |
| Allatyce             | Result          | Result | Anounc | UNILS | Recovery | Result | Amount       | Units | Recovery | RPD    | Flags      |
|                      |                 |        |        |       |          |        |              |       |          |        |            |
| Aluminum, ICP        | 4.73            | ND     | 5.00   | mg/L  | 94.6     | 4.73   | 5.00         | mg/L  | 94.6     | 0.0    |            |
| Antimony, ICP        | 0.497           | ND     | 0.500  | mg/L  | 99.4     | 0.499  | 0.500        | mg/L  | 99.8     | 0.4    |            |
| Arsenic, ICP         | 0.521           | 0.012  | 0.500  | mg/L  | 101.8    | 0.521  | 0.500        | mg/L  | 101.8    | 0.0    |            |
| Barium, ICP          | 0.497           | 0.021  | 0.500  | mg/L  | 95.2     | 0.508  | 0.500        | mg/L  | 97.4     | 2.3    |            |
| Beryllium, ICP       | 0.497           | ND     | 0.500  | mg/L  | 99.4     | 0.499  | 0.500        | mg/L  | 99.8     | 0.4    |            |
| Boron, ICP           | 1.40            | 0.88   | 0.500  | mg/L  | 104.0    | 1.41   | 0.500        | mg/L  | 106.0    | 1.9    |            |
| Cadmium, ICP         | 0.449           | ND     | 0.500  | mg/L  | 89.8     | 0.448  | 0.500        | mg/L  | 89.6     | 0.2    |            |
| Calcium, ICP 200.7   |                 | ND     | 5.00   | mg/L  |          |        | 5.00         | mg/L  |          |        |            |
| Chromium, ICP        | 1.02            | 0.56   | 0.500  | mg/L  | 92.0     | 1.02   | 0.500        | mg/L  | 92.0     | 0.0    |            |
| Cobalt, ICP          | 0.463           | ND     | 0.500  | mg/L  | 92.6     | 0.462  | 0.500        | mg/L  | 92.4     | 0.2    |            |
| Copper, ICP          | 0.496           | ND     | 0.500  | mg/L  | 99.2     | 0.502  | 0.500        | mg/L  | 100.4    | 1.1    |            |
| Iron, ICP            | 2.07            | 0.11   | 2.00   | mg/L  | 98.0     | 2.06   | 2.00         | mg/L  | 97.5     | 0.5    |            |
| Lead, ICP            | 0.439           | ND     | 0.500  | mg/L  | 87.8     | 0.437  | 0.500        | mg/L  | 87.4     | 0.5    | MI         |
| Lead, ICP            | 0.439           | ND     | 0.500  | mg/L  | 87.8     | 0.437  | 0.500        | mg/L  | 87.4     | 0.5    |            |
| Magnesium, ICP 200.7 |                 | ND     | 5.00   | mg/L  |          |        | 5.00         | mg/L  |          |        |            |
| Manganese, ICP       | 0.483           | ND     | 0.500  | mg/L  | 96.6     | 0.483  | 0.500        | mg/L  | 96.6     | 0.0    |            |
| Molybdenum, ICP      |                 | ND     | 0.500  | mg/L  |          |        | 0.500        | mg/L  |          |        |            |
| Nickel, ICP          | 0.450           | 0.005  | 0.500  | mg/L  | 89.0     | 0.449  | 0.500        | mg/L  | 88.8     | 0.2    |            |
| Nickel, ICP          | 0.450           | 0.005  | 0.500  | mg/L  | 89.0     | 0.449  | 0.500        | mg/L  | 88.8     | 0.2    |            |
| Potassium, ICP 200.7 | 20.4            | 12     | 5.00   | mg/L  | 168.0    | 20.4   | 5.00         | mg/L  | 168.0    | 0.0    | DILQ,M     |
| Selenium, ICP        | 0.523           | 0.043  | 0.500  | mg/L  | 96.0     | 0.527  | 0.500        | mg/L  | 96.8     | 0.8    |            |
| Silver, ICP          | 0.471           | ND     | 0.500  | mg/L  | 94.2     | 0.472  | 0.500        | mg/L  | 94.4     | 0.2    |            |
| Sodium, ICP 200.7    |                 | 350    | 5.00   | mg/L  |          |        | 5.00         | mg/L  |          |        | DIL,Q,     |
| Thallium, ICP        | 0.430           | ND     | 0.500  | mg/L  | 86.0     | 0.433  | 0.500        | mg/L  | 86.6     | 0.7    |            |
| Vanadium, ICP        | 0.575           | 0.066  | 0.500  | mg/L  | 101.8    | 0.576  | 0.500        | mg/L  | 102.0    | 0.2    |            |
| Zinc, ICP            | 0.487           | ND     | 0.500  | mg/L  | 97.4     | 0.481  | 0.500        | mg/L  | 96.2     | 1.2    |            |
| QC Sample:           |                 |        |        |       |          |        |              |       |          |        |            |

NOTE: Matrix Spike Samples may not be samples from this job.

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

dil.= Diluted Out

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# QUALITY CONTROL REPORT BLANKS

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

Date: 01/07/1998

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Job Number: 97.03081

Contact: Marcia Smith Project: 710505 Location:

|                      | Blank    | Report |       | Date       |
|----------------------|----------|--------|-------|------------|
| Analyte              | Analysis | Limit  | Units | Analyzed   |
|                      |          |        |       |            |
| Aluminum, ICP        | ND       | 0.05   | mg/L  | 12/09/1997 |
| Antimony, ICP        | ND       | 0.005  | mg/L  | 12/09/1997 |
| Arsenic, ICP         | ND       | 0.005  | mg/L  | 12/09/1997 |
| Barium, ICP          | ND       | 0.005  | mg/L  | 12/09/1997 |
| Beryllium, ICP       | ND       | 0.002  | mg/L  | 12/09/1997 |
| Boron, ICP           | ND       | 0.01   | mg/L  | 12/09/1997 |
| Cadmium, ICP         | ND       | 0.002  | mg/L  | 12/09/1997 |
| Calcium, ICP.200.7   | ND       | 0.05   | mg/L  | 12/09/1997 |
| Chromium, ICP        | ND       | 0.005  | mg/L  | 12/09/1997 |
| Cobalt, ICP          | ND       | 0.005  | mg/L  | 12/09/1997 |
| Copper, ICP          | ND       | 0.005  | mg/L  | 12/09/1997 |
| Iron, ICP            | ND       | 0.01   | mg/L  | 12/09/1997 |
| Lead, ICP            | ND       | 0.005  | mg/L  | 12/09/1997 |
| Magnesium, ICP 200.7 | ND       | 0.05   | mg/L  | 12/09/1997 |
| Molybdenum, ICP      | ND       | 0.005  | mg/L  | 12/09/1997 |
| Nickel, ICP          | ND       | 0.005  | mg/L  | 12/09/1997 |
| Potassium, ICP 200.7 | ND       | 0.2    | mg/L  | 12/09/1997 |
| Selenium, ICP        | ND       | 0.005  | mg/L  | 12/09/1997 |
| Silver, ICP          | ND       | 0.005  | mg∕L  | 12/09/1997 |
| Sodium, ICP 200.7    | ND       | 0.2    | mg/L  | 12/09/1997 |
| Thallium, ICP        | ND       | 0.01   | mg/L  | 12/09/1997 |
| Vanadium, ICP        | ND       | 0.005  | mg/L  | 12/09/1997 |
| Zinc, ICP            | ND       | 0.005  | mg/L  | 12/09/1997 |
|                      |          |        |       |            |

American Environmental Network, Inc. (503)684-0447 (503)620-0393 FAX 17400 SW Upper Boones Ferry Rd., Portland, OR 97224

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FLAG GLOSSARY

Α This sample does not have a typical gasoline pattern. B1 This sample does not have a typical diesel pattern. в Analyte found in the associated blank as well as the sample. С The sample contains a lighter hydrocarbon than gasoline. CN See case narrative CS Outside control limits or unusual matrix; see case narrative. D The sample extends to a heavier hydrocarbon range than gasoline. d Results on a dry weight basis Result was calculated from dilution. DTL The sample extends to a lighter hydrocarbon range than diesel. Е F The sample extends to a heavier hydrocarbon range than diesel. G The positive result for gasoline is due to single component comtamination. The oil pattern for this sample is not typical. I J The result for this compound is an estimated concentration. L The LCS recovery exceeded control limits. See the LCS page of this report. LМ The LCS recovery exceeded control limits; the MS/MSD were in control validating the batch. MS and/or MSD percent recovery exceeds control limits. Μ MD Unable to calculate MS/MSD recovery due to high amount of analyte; greater than 4 times spike level. The MS/MSD RPD is greater than method critera. The sample was re-extracted and re-analyzed with similar results indica MR a non-homogeneous sample. MM The Matrix Spike exceeded control limits; LCS/LCS-D were in control validating the batch. MT Outside control limits due to matrix interference. Ν Manual integration performed on sample for quantification. N/A Not Applicable. NC Not calcuable. NO Not Analyzed. A post digestion spike was analyzed, and recoveries were within control limits. Ρ 0 Detection limits elevated due to sample matrix. Q1 Detection limits elevated due to high levels of non-target compounds. Sample(s) run at a dilution. The duplicate RPD was greater than 20%. The sample was re-extracted and re-analyzed with similar results. This R indicates a matrix interference in the sample, likely a non-homogeneity of the sample. RD RPD not applicable for results less than five times the reporting limit. RP MS/MSD RPD is greater than 20% SR Surrogate recovery outside control limits. See the surrogate page of the report.

- SD Unable to quantitate surrogate due to sample dilution.
- sc Sample not provided to laboratory in proper sampling container.
- v Volatile analysis was requested, sample container received with headspace.
- X1 The duplicate RPD was greater than 20%. Due to insufficient sample, re-analysis was not possible.
- х Sample was analyzed outside recommended holding times.
- Y The result for this parameter was greater than the TCLP regulatory limit.
- z The pattern seen for the parameter being analyzed is not typical.

| PL                                                                                                          | EA       | SE            | FILL          | . Tł                      | HIS           | FO                    | RN                      |                      |                                  | Зм   | PLE     | ΞTE | LY. | SI                                    | iaj | DA                 | RE               | AS                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------|----------|---------------|---------------|---------------------------|---------------|-----------------------|-------------------------|----------------------|----------------------------------|------|---------|-----|-----|---------------------------------------|-----|--------------------|------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/1/96 AEN Inc.: American Environmental                                                                     |          |               |               | A GEDHERGINKY             | SHIPPED VIA:  | P.O. NO.:             | PROJ. NAME: SC/H, 15 11 | PROJ. NO.: SETT BILL | PROJECT INFORMATION              |      |         |     |     |                                       |     | 97/028/105         | 0160 220126      | SAMPLE ID                | Albuquerque • Phoenix • Pensacola • Portlant L'HUTTONTITENTAL IVETUUTR<br>Albuquerque • Phoenix • Pensacola • Portland • Pleasant<br>COMPANY: N:N ()il Censey Vs. Tish<br>ADDRESS: 2040 5 · Research<br>PHONE: 2040 5 · Research<br>PHONE: 2040 5 · Research<br>FAX: 2040 5 · Research<br>BILL TO: (5 - Inc.)<br>BILL TO: (5 - Inc.)<br>ADDRESS: 2040 5 · Research<br>BILL TO: (5 - Inc.)<br>ADDRESS: 2040 5 · Research<br>Sant fe NM 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 |          |               | ∠             |                           | COMMENTS: FI) | METHANOL PRESERVATION | CERTIFICATION REQUIRED: | (RUSH) 24hr          | PRIOR AUTHO                      |      |         |     |     |                                       |     | <br>10/25/11/05/W- | 1 01 PO 10/22/01 | DATE TIME M              | Portland · Pleasant Hills<br>Portland · Pleasant Hills<br>Conservation Di<br>S. Recherco<br>S. S. S. S. S. S. S. S. S. S. S. S. S. S |
| 1 American Freeway, NE • Albu                                                                               |          |               | har/nos by    |                           | FIXED FEE     |                       | UIRED: NM SDWA          | 48hr 72hr 1 WEEK     | <b>AUTHORIZATION IS REQUIRED</b> |      |         |     |     |                                       |     | -ka 1021           | 10- Am           |                          | troleum Hydrocarbons (418.1) TRPH<br>OD.8015) Diesel/Direct/Inject                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| querque, New Mexico 87107                                                                                   |          |               | Client replay | -                         |               |                       | A OTHER                 | (NORMAL)             | D FOR RUSH PROJEC                |      |         |     |     |                                       |     |                    |                  | (M8<br>Gas<br>BT)<br>BTI | B015) Gas/Purge & Trap<br>soline/BTEX & MTBE (M8015/8020)<br>XE/MTBE (8020)<br>EX & Chlorinated Aromatics (602/8020)<br>EX/MTBE/EDC & EDB (8020/8010/Short)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                             | Company: | Printed Name: | Signature:    | <b>Hedeven</b>            | O WWW         | William 6             | Printed Name:           | D/ Interder X        | CTS 🕅 🗍 RELINQUISHED BY:         |      |         |     |     |                                       |     |                    |                  | Chl<br>504<br>Pol<br>Vol |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DISTRIBUTIO                                                                                                 |          | Date:         | Time:         | $\mathbf{w} = \mathbf{w}$ |               | 1/2m 10/29/97         | Date:                   | Time                 | HED BY: 1550 1.                  | LANG |         |     |     |                                       |     |                    |                  | Pes<br>Her<br>Basi       | sticides/PCB (608/8080)<br>rbicides (615/8150)<br>e/Neutral/Ac:d Compounds GC/MS (625/8270)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DISTRIBUTION: White, Canary - AEN Pin                                                                       |          | 1971 Start    |               | (DECEVED BY (CAB)         | Company:      |                       | Printed Name: Date      | Signature Time       | <b>RELINQUISHED BY:</b>          |      | (°/2/67 |     |     |                                       |     | <br>X              |                  | Pric<br>Tarc<br>RC       | eneral Chemistry: Cating Anigh<br>Differe Ho.<br>Drity Pollutant Metals (13)<br>get Analyte List Metals (23)<br>RA Metals (8)<br>RA Metals by TCLP (Method 13,11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Pink - ORIGINATOF                                                                                           |          |               |               |                           |               |                       |                         | C                    | 2                                |      | 1       |     |     | · · · · · · · · · · · · · · · · · · · |     | N                  | È                | Mei                      | RA Metals by TCLP (Method 13,11)<br>tals: TCAP 6010 pl-3<br>H- + Se by AA<br>MBER OF CONTAINERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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merican Environmental Netherk (NM), Inc.

Ibuquerque Office: 2709:D Pan American Fwy: NE & Remit Tor: American Environmental Network (N.M.), Inc Albuquerque: NM (17107 P.O.1Box 5676 P.O. Box 5676 Boston MA-0

Imerican Environteration Network, Inc.

DEC 1 9 1997

Boston, MA 02206

| Date     | Invoice |  |
|----------|---------|--|
| 12/17/97 | 77142   |  |

N.M. Oil Conservation Division Bill 2040 South Pacheco To: Santa Fe, NM 87505

Client #: 810-134

Original

PROJECT #: SALTY BILL PROJ. NAME: SALTY BILL

BALANCE DUE: 624.00 PO Number Project Terms Net 30 AEN ALB-810 Quantity Description Rate Amount 1 Cation/Anion Balance -ITEM 125 160.00 160.00 1 Nitrate/Nitrite 16.00 16.00 1 EPA Method 8010/8020 100.00 100.00 1 EPA Method 8270 300.00 300.00 Mercur CVAA 20.00 1 20.00 Selenium, GFAA 1 12.00 12.00 1 Digestion 16.00 16.00 Accession #:710420 TOTAL: Authorized by:BILL OLSON 624.00

> A finance charge of 11/2% will be charged on balances 30 days past due DISTRIBUTION: White-Customer, Yellow-File, Pink-Accounting

2709-D Pan American Freeway, NE • Albuquerque, NM 87107 • (505) 344-3777 • Fax (505) 344-4413

AEN I.D. 710420

9 1397

TERVATION.

<u> American Environmental Network, Inc.</u>

December 17 , 1997

NMOCD 2040 S. PACHECO SANTA FE, NM 87505

Project Name SALTY BILL Project Number SALTY BILL

Attention: BILL OLSON

On 10/29/97 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), 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.

EPA Method 8010/8020 analyses were performed at AEN(NM), Inc. Albuquerque, NM.

Sodium, potassium, magnesium and potassium analyses were performed at AEN(OR), Inc., Portland, OR.

All other analyses were performed at AEN(AZ), Phoenix, AZ.

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: mt

Enclosure

American Environmental Network , Inc.

| CLIENT       | : NMOCD            | AEN I.D.      | : 710420   |
|--------------|--------------------|---------------|------------|
| PROJECT #    | : SALTY BILL       | DATE RECEIVED | : 10/29/97 |
| PROJECT NAME | : SALTY BILL       | REPORT DATE   | : 12/17/97 |
| AEN          |                    |               | DATE       |
| 1D. #        | CLIENT DESCRIPTION | MATRIX        | COLLECTED  |
| 01           | 9710280910         | AQ            | 10/28/97   |
| 02           | 9710281105         | AQ            | 10/28/97   |

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### GAS CHROMOTOGRAPHY RESULTS

| TEST         | : PURGEABLE H | ALOCARBO | NS / AROMAT | TICS (EPA 8010/ | 8020)   |           |
|--------------|---------------|----------|-------------|-----------------|---------|-----------|
| CLIENT       | : NMOCD       |          |             |                 | AEN I.D | .: 710420 |
| PROJECT #    | : SALTY BILL  |          |             |                 |         |           |
| PROJECT NAME | : SALTY BILL  |          |             |                 |         |           |
| SAMPLE       |               |          | DATE        | DATE            | DATE    | DIL.      |
|              |               |          |             |                 |         | FACTOR    |

| ID. # CLIENT I.D.         |            | MATRIX  | SAMPLED  | EXTRACTED | ANALYZED | FACTOR                                 |
|---------------------------|------------|---------|----------|-----------|----------|----------------------------------------|
| 01 9710280910             |            | AQUEOUS | 10/28/97 | NA        | 11/5/97  | 50                                     |
| PARAMETER                 | DET. LIMIT | UN      | ITS      | 01        |          | ······································ |
| BENZENE                   | 0.5        | UC      | G/L      | 2600      |          |                                        |
| BROMODICHLORMETHANE       | 0.2        |         | 3/L      | < 10      |          |                                        |
| BROMOFORM                 | 0.5        |         | G/L      | < 25      |          |                                        |
| BROMOMETHANE              | 1.0        | UC      | G/L      | < 50      |          |                                        |
| CARBON TETRACHLORIDE      | 0.2        |         | 3/L      | < 10      |          |                                        |
| CHLOROBENZENE             | 0.5        | UC      | G/L      | < 25      |          |                                        |
| CHLOROETHANE              | 0.5        | UC      | G/L      | < 25      |          |                                        |
| CHLOROFORM                | 0.5        | UC      | G/L      | < 25      |          |                                        |
| CHLOROMETHANE             | 1.0        | UC      | G/L      | < 50      |          |                                        |
| DIBROMOCHLOROMETHANE      | 0.2        | UC      | G/L      | < 10      |          |                                        |
| 1,2-DIBROMOETHANE (EDB)   | 0.2        | UC      | G/L      | < 10      |          |                                        |
| 1,2-DICHLOROBENZENE       | 0.5        | UC      | G/L      | < 25      |          |                                        |
| 1,3-DICHLOROBENZENE       | 0.5        |         | G/L      | < 25      |          |                                        |
| 1,4-DICHLOROBENZENE       | 0.5        | UC      | G/L      | < ,25     |          |                                        |
| 1,1-DICHLOROETHANE        | 0.3        | UC      | G/L      | < 15      |          |                                        |
| 1,2-DICHLOROETHANE (EDC)  | 0.5        | UC      | 3/L      | < 25      |          |                                        |
| 1,1-DICHLOROETHENE        | 0.2        | UC      | G/L      | < 10      |          |                                        |
| cis-1,2-DICHLOROETHENE    | 0.2        | UC      | 3/L      | < 10      |          |                                        |
| trans-1,2-DICHLOROETHENE  | 1.0        | UC      | J/L      | < 50      |          |                                        |
| 1,2-DICHLOROPROPANE       | 0.2        | UC      | J/L      | < 10      |          |                                        |
| cis-1,3-DICHLOROPROPENE   | 0.2        | UC      | G/L      | < 10      |          |                                        |
| trans-1,3-DICHLOROPROPENE | 0.2        | UC      | G/L      | < 10      |          |                                        |
| ETHYLBENZENE              | 0.5        | UC      | G/L      | 440       |          |                                        |
| METHYL-t-BUTYL ETHER      | 2.5        | UC      | G/L      | < 125     |          |                                        |
| METHYLENE CHLORIDE        | 2.0        | UC      | 3/L      | < 100     |          |                                        |
| 1,1,2,2-TETRACHLOROETHANE | 0.5        | UC      | J/L      | < 25      |          |                                        |
| TETRACHLOROETHENE         | 0.5        | UC      | G/L      | < 25      |          |                                        |
| TOLUENE                   | 0.5        | UC      | G/L      | 2400      |          |                                        |
| 1,1,1-TRICHLOROETHANE     | 1.0        | UC      | G/L      | < 50      |          |                                        |
| 1,1,2-TRICHLOROETHANE     | 0.2        | UC      | G/L      | < 10      |          |                                        |
| TRICHLOROETHENE           | 0.3        | UC      | G/L      | < 15      |          |                                        |
| TRICHLOROFLUOROMETHANE    | 0.2        | UC      | G/L      | < 10      |          |                                        |
| VINYL CHLORIDE            | 0.5        |         | 3/L      | < 25      |          |                                        |
| TOTAL XYLENES             | 0.5        |         | G/L      | 950       |          |                                        |
| SUBBOGATE                 |            |         |          |           |          |                                        |
|                           |            |         |          |           |          |                                        |
| BROMOCHLOROMETHANE (%)    | (70 447)   |         |          | 111       |          |                                        |
|                           | (73 - 117) |         |          | 00        |          |                                        |
| TRIFLUOROTOLUENE (%)      | 100 117    |         |          | 89        |          |                                        |
| SURROGATE LIMITS          | (69 - 117) |         |          |           |          |                                        |
| CHEMIST NOTES:            |            |         |          |           |          |                                        |
| N/A                       |            |         |          |           |          |                                        |

N/A

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TEST

CLIENT

BLANK I.D.

PROJECT #

### GAS CHROMOTOGRAPHY RESULTS REAGENT BLANK : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020) : 110597 AEN I.D. : NMOCD DATE EXTRACTED : SALTY BILL DATE ANALYZED

|                                            | ALTY BILL    |       | SAMPLE MATRIX |           |
|--------------------------------------------|--------------|-------|---------------|-----------|
| PROJECT MAINE . 37                         |              |       | SAMPLE MATRIA | : AQUEOUS |
| PARAMETER                                  |              | UNITS |               |           |
| BENZENE                                    |              | UG/L  | <0.5          |           |
| BROMODICHLORMETHANE                        |              | UG/L  | <0.2          |           |
| BROMOFORM                                  |              | UG/L  | <0.5          |           |
| BROMOMETHANE                               |              | UG/L  | <1.0          |           |
| CARBON TETRACHLORIDE                       |              | UG/L  | <0.2          |           |
| CHLOROBENZENE                              |              | UG/L  | <0.5          |           |
| CHLOROETHANE                               |              | UG/L  | <0.5          |           |
| CHLOROFORM                                 |              | UG/L  | <0.5          |           |
| CHLOROMETHANE                              |              | UG/L  | <1.0          |           |
| DIBROMOCHLOROMETHANE                       |              | UG/L  | <0.2          |           |
| 1,2-DIBROMOETHANE (EDB)                    |              | UG/L  | - <0.2        |           |
| 1,2-DICHLOROBENZENE                        |              | UG/L  | <0.5          |           |
| 1,3-DICHLOROBENZENE                        |              | UG/L  | <0.5          |           |
| 1,4-DICHLOROBENZENE                        |              | UG/L  | <0.5          |           |
| 1,1-DICHLOROETHANE                         |              | UG/L  | <0.3          |           |
| 1,2-DICHLOROETHANE (EDC)                   |              | UG/L  | <0.5          |           |
| 1,1-DICHLOROETHENE                         |              | UG/L  | <0.2          |           |
| cis-1,2-DICHLOROETHENE                     |              | UG/L  | <0.2          |           |
| trans-1,2-DICHLOROETHENE                   |              | UG/L  | <1.0          |           |
| 1,2-DICHLOROPROPANE                        |              | UG/L  | <0.2          |           |
| cis-1,3-DICHLOROPROPENE                    |              | UG/L  | <0.2          |           |
| trans-1,3-DICHLOROPROPENE                  |              | UG/L  | <0.2          |           |
| ETHYLBENZENE                               |              | UG/L  | <0.5          |           |
| METHYL -t-BUTYL ETHER                      |              | UG/L  | <2.5          |           |
| METHYLENE CHLORIDE                         |              | UG/L  | <2.0          |           |
| 1,1,2,2-TETRACHLOROETHANE                  |              | UG/L  | <0.5          |           |
| TETRACHLOROETHENE                          |              | UG/L  | <0.5          |           |
| TOLUENE                                    |              | UG/L  | <0.5          |           |
| 1,1,1-TRICHLOROETHANE                      |              | UG/L  | <1.0          |           |
| 1,1,2-TRICHLOROETHANE                      |              | UG/L  | <0.2          |           |
| TRICHLOROETHENE                            |              | UG/L  | <0.3          |           |
| TRICHLOROFLUOROMETHANE                     |              | UG/L  | <0.2          |           |
| VINYL CHLORIDE                             |              | UG/L  | <0.5          |           |
| TOTAL XYLENES                              |              | UG/L  | <0.5          |           |
| SURROGATE:                                 |              |       |               |           |
| BROMOCHLOROMETHANE (%)<br>SURROGATE LIMITS | ( 73 - 117 ) |       | 109           |           |
|                                            | . ,          |       | 405           |           |

CHEMIST NOTES: N/A

SURROGATE LIMITS

**TRIFLUOROTOLUENE (%)** 

(69-117)

105

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: 710420

: 11/5/97

: N/A

American Environmental Network, Inc.

| GAS CHROMOTOGRAPHY QUALITY CONTROL<br>MSMSD |             |         |        |       |              |                                         |     |              |        |  |
|---------------------------------------------|-------------|---------|--------|-------|--------------|-----------------------------------------|-----|--------------|--------|--|
| TEST                                        | : PURGEA    | BLE HAL | •••    |       | TICS (EPA 80 | 10/8020)                                |     |              |        |  |
| MSMSD #                                     | : 710410-02 |         |        |       | AEN I.D.     | , , , , , , , , , , , , , , , , , , , , | :   | : 710420     |        |  |
| CLIENT                                      | : NMOCD     |         |        |       | DATE EXTR    | RACTED                                  | :   | N/A          |        |  |
| PROJECT #                                   | : SALTY BI  | LL      |        |       | DATE ANA     | LYZED                                   | :   | 11/5/97      |        |  |
| PROJECT NAME                                | : SALTY BI  | LL      |        | ATRIX | :            | AQUEOUS                                 |     |              |        |  |
|                                             | UNITS       |         |        |       |              |                                         |     | : UG/L       |        |  |
|                                             | SAMPLE      | CONC    | SPIKED | %     | DUP          | DUP                                     |     | REC          | RPD    |  |
| PARAMETER                                   | RESULT      | SPIKE   | SAMPLE | REC   | SPIKE        | % REC                                   | RPD | LIMITS       | LIMITS |  |
| BENZENE                                     | <0.5        | 10.0    | 8.8    | 88    | 9.1          | 91                                      | 3   | (82-128)     | 20     |  |
| TOLUENE                                     | <0.5        | 10.0    | 9.2    | 92    | 9.5          | 95                                      | 3   | ( 87 -128 )  | 20     |  |
| 1,1-DICHLOROETHENE                          | <0.2        | 10.0    | 6.0    | 60    | 6.2          | 62                                      | 3   | (44 - 99)    | 20     |  |
| TRICHLOROETHENE                             | <0.3        | 10.0    | 11.1   | 111   | 12.1         | 121                                     | 9   | (89 - 127)   | 20     |  |
| CHLOROBENZENE                               | <0.5        | 10.0    | 9.4    | 94    | 10.1         | 101                                     | 7   | ( 87 - 124 ) | 20     |  |

CHEMIST NOTES: N/A

(Spike Sample Result - Sample Result)

% Recovery = ----- X 100

Spike Concentration

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

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| <b>General</b>                                                                                                                    |                         |                                                                            |              |          | _        |   |                |         |        |                  |            | <b>.</b> |                        |                    |                         |                                                  |                    | 4              | ·             |                |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------|--------------|----------|----------|---|----------------|---------|--------|------------------|------------|----------|------------------------|--------------------|-------------------------|--------------------------------------------------|--------------------|----------------|---------------|----------------|
|                                                                                                                                   |                         | OF CONTRINERS                                                              | רא רק        | 50       | 躑        | 騘 |                | 識       |        | all and a second | <b>资</b> 。 | ÷        |                        |                    |                         |                                                  | 2                  |                | T             |                |
|                                                                                                                                   | 题                       | 1 14 ng 3 + 4                                                              |              |          |          |   |                |         |        |                  |            |          |                        |                    |                         |                                                  |                    | ふう             | あめ            | S              |
|                                                                                                                                   |                         | silo (10) Hoto sien                                                        |              |          | 1        |   |                |         |        |                  |            |          | ļ                      |                    |                         |                                                  |                    | hK             | 102           | N S            |
|                                                                                                                                   |                         | (11,21) (Method 13,11)                                                     |              | _        |          |   |                |         |        |                  |            |          |                        | e.                 | e.                      |                                                  |                    | 120)           | )<br>K        | <b>N</b> SS    |
|                                                                                                                                   |                         | (8) AA                                                                     |              | _        |          |   |                |         |        |                  |            |          | ا≍                     | Time               | Date                    |                                                  | AB)                | 皆可             | Bi S          | Na.            |
|                                                                                                                                   |                         | rget Analyte List Metals (23)                                              | IbT          |          | <u> </u> |   |                |         |        |                  |            |          |                        |                    |                         |                                                  | <u>v</u>           |                | S             |                |
|                                                                                                                                   | 数                       | ority Pollutant Metals (13)                                                | ĿЧ           | _        |          |   |                |         |        |                  |            |          | EH<br>ISH              |                    | تق                      |                                                  | 08                 |                | 18 2          |                |
| 0.lk/2.0                                                                                                                          | No.                     |                                                                            |              | _        |          |   |                |         |        |                  | 20         |          | RELINQUISHED BY:       | ie:                | Printed Name:           | ž                                                | RECEIVED BY: (LAB) | 2              | ESS<br>No.    | 5              |
|                                                                                                                                   |                         | 1-15-20                                                                    | Y            | $\geq$   | 1        |   |                |         |        | /                | B          |          | Ē                      | Signature:         | nted                    | Company:                                         | EC.                | PER N          | 8             |                |
| No.                                                                                                                               |                         | eneral Chemistry: Cct a Anion                                              | 9  >         | <        |          |   |                |         |        |                  | 0          |          | Ľ                      | အိ                 |                         |                                                  | _                  | S              | 5             |                |
|                                                                                                                                   |                         |                                                                            |              |          |          |   |                |         |        |                  | $\subset$  | R        | -                      |                    | ca                      | ン                                                | 影響                 |                |               |                |
| ark                                                                                                                               | ľ,                      | se/Neutral/Acid Compounds GC/MS (625/8270)                                 | 588 D        | <        |          |   |                |         |        |                  |            | 22       | 1022                   |                    |                         | 1                                                |                    |                |               |                |
| 8                                                                                                                                 | Ĩ.                      | nbicides (615/8150)                                                        | əн           |          |          |   |                |         |        |                  |            | 5        | ۱( <u>۲</u>            | 2                  |                         | 5                                                |                    |                |               |                |
| S                                                                                                                                 | ğ                       | sticides/PCB (608/8080)                                                    | Ъд           |          | 1        |   |                |         |        |                  |            |          |                        | Time               | <b>-</b> ₩              | ٦                                                |                    | Time:          | te:           |                |
| AENILABILD                                                                                                                        | BE                      |                                                                            |              |          | 1        |   |                |         |        |                  |            |          | B                      | Ē                  | Date                    | 2 3                                              |                    | Ē              | Date:         |                |
| V                                                                                                                                 | SIS                     | latile Organics (8260) GC/MS                                               | οΛ           |          | 1        |   |                |         |        |                  |            |          | <b>B</b>               |                    | ₹Ъ                      | 4                                                | <u>چ</u> ار        |                |               |                |
|                                                                                                                                   | ANALYSIS REQUEST        | latile Organics (624/8240) GC/MS                                           |              | -        | <u> </u> |   |                |         |        |                  | <u> </u>   |          | RELINQUISHED BY:       | 6                  | ₹ <u>`</u>              | 20                                               |                    |                | iei i         | 1              |
| >-                                                                                                                                | N                       | Iynuclear Aromatics (610/8310)                                             |              | -        | +        |   |                |         |        |                  |            |          | Ι <u></u>              |                    |                         | Whiled                                           | t≩                 |                | Printed Name: | ž              |
|                                                                                                                                   |                         |                                                                            | 09           |          | +        |   |                |         |        |                  |            |          | Ĩ                      | nteut              | が別                      | Compa                                            | 私  服               | Signature      | nted          | Company        |
| <b>0</b>                                                                                                                          |                         | cres/ cro                                                                  | -            | _        |          |   |                |         |        |                  | ·          | _        | <u> </u>               | ð,                 | <u> यह</u> –            | 3 3                                              | 繁白                 | ,<br>Si<br>O   | Pri           | ပိ             |
| 5                                                                                                                                 |                         | norinated Hydrocarbons (601/8010)                                          |              | 7        |          |   |                |         |        |                  |            |          | S                      | $\mathbf{X}$       |                         |                                                  |                    | L.             |               |                |
| CC                                                                                                                                |                         |                                                                            |              |          |          |   |                |         |        |                  |            | _        | 5                      | <b>[</b> ]         |                         |                                                  |                    | à              |               |                |
| <b>U</b> A                                                                                                                        |                         | EX/WTBE/EDC & EDB (8020/8010/2404)                                         |              |          |          |   |                |         |        |                  |            |          | 5                      | (NORMAL)           |                         |                                                  |                    | ng.            |               |                |
| Ľ                                                                                                                                 |                         | EX & Chlorinated Aromatics (602/8020)                                      |              | _        |          |   |                |         |        |                  |            |          | PR                     | Z                  |                         |                                                  |                    | R              |               |                |
| CHAIN OF CUSTODY                                                                                                                  |                         | .XE/WLBE (8050)                                                            |              |          | <u> </u> |   |                |         |        |                  |            |          | FOR RUSH PROJECTS      |                    | ff                      |                                                  |                    | +              |               |                |
| Zor                                                                                                                               |                         | asoline/BTEX & MTBE (M8015/8020)                                           |              |          | <b> </b> |   |                |         |        |                  |            |          | L S                    | 1                  |                         |                                                  |                    | 3              |               |                |
| <b>A</b> S                                                                                                                        |                         | 108) Gas/Purge & Trap                                                      | W)           |          |          |   |                |         |        |                  |            |          | В<br>В                 |                    | ŏ                       |                                                  |                    | 1.e            |               |                |
| CH.                                                                                                                               |                         | <u>.</u>                                                                   |              |          | ļ        |   |                |         |        |                  |            | _        |                        |                    | _                       |                                                  |                    | U              |               |                |
| <b>N</b>                                                                                                                          |                         | OD.8015) Diesel/Direct/Inject                                              |              |          | <u> </u> |   |                |         |        |                  |            |          | IRE                    | μ¥.                | DWA                     | -                                                |                    | 24             |               |                |
|                                                                                                                                   |                         | troleum Hydrocarbons (†18.1) TRPH                                          |              |          |          |   |                |         |        |                  |            |          | REQUIRED               | 1 WEEK             | S                       |                                                  |                    | -44-           |               |                |
| $\mathcal{HC}^{bia}$                                                                                                              |                         |                                                                            | <u>.</u>     | 12       |          |   |                |         |        |                  |            | NO NO    |                        |                    |                         |                                                  |                    | •              |               |                |
| (), <i>In</i><br>Columb                                                                                                           |                         |                                                                            |              | 25       |          |   |                |         |        |                  |            |          | PRIOR AUTHORIZATION IS | 🗌 72hr             | MN<br>□                 |                                                  |                    | Non/Nos        |               |                |
| $\overline{\langle}$                                                                                                              |                         | 1.11.10 vol.                                                               | ┙┝           |          |          |   | 2,5% -         | 1969, 5 | 19 - R | Alex .           |            | аў.<br>- | Ιē                     |                    |                         |                                                  |                    | 2              |               |                |
|                                                                                                                                   |                         |                                                                            | Ĩ.           | 1        | 1        |   |                |         |        |                  |            |          | Z                      | Ē                  | RED                     |                                                  |                    | 7              |               |                |
| $tal \ Network \ (N)$ Portland • Pleasant Hills                                                                                   |                         |                                                                            | A .          |          |          |   |                |         |        |                  |            |          | <b>E</b>               | 148hr              | CERTIFICATION REQUIRED: | METHANOL PRESERVATION I J<br>COMMENTS: FIXED FEE |                    | 9              |               |                |
| rk<br>sant                                                                                                                        |                         | guz n                                                                      |              | -        | -        |   |                |         |        |                  |            | _        | Ē                      |                    | NR                      |                                                  |                    |                |               |                |
| V0)                                                                                                                               |                         | 12 13                                                                      | TIME<br>5    | 16       |          |   |                |         |        |                  |            |          | ₹:                     | RUSH) 24hr         | ATIO                    | METHANOL PR<br>COMMENTS                          |                    |                |               |                |
| etu<br>• F                                                                                                                        |                         | 1232122 11                                                                 | 기로           | 2 2      | <u>+</u> |   |                |         |        |                  |            |          | В                      | Î                  | E E                     |                                                  |                    |                |               |                |
| N Pu                                                                                                                              | 40                      | enserving                                                                  | 12           | 340      | +        |   |                |         |        |                  |            |          | E a                    | ISUF               | ERT                     |                                                  |                    |                |               |                |
| ul J                                                                                                                              | OLSON                   |                                                                            | DATE<br>DATE | et s     |          |   |                |         |        |                  |            |          | -                      | <u> </u>           | 0                       | 2 0                                              | 10000-7-           | lander X       |               | ant difference |
| lta<br>Pc                                                                                                                         | <b>U</b>                |                                                                            |              | 20       | }        |   |                |         |        |                  |            |          | ~                      | 1                  |                         |                                                  |                    |                | ۶.            | *              |
| <i>е</i> и<br>•                                                                                                                   |                         |                                                                            |              |          |          |   |                |         |        |                  |            |          |                        |                    |                         |                                                  |                    | 94             | Z N           |                |
| i M1<br>acoli                                                                                                                     | 6                       |                                                                            |              |          |          |   |                |         |        |                  |            |          | NO N                   | 1                  |                         |                                                  |                    |                |               |                |
| 0 M<br>ense                                                                                                                       | []                      | N C C S S S S S S S S S S S S S S S S S                                    |              |          |          |   |                |         |        |                  |            |          | NA                     | $\bigtriangledown$ | $\square$               |                                                  | E.                 | 1222 4         | M. 97         |                |
| Ϊ.<br>Pe                                                                                                                          | Ë                       | 23388                                                                      | <u> </u>     | 2        |          |   |                |         |        |                  |            |          | B                      |                    |                         |                                                  | EC.                |                |               |                |
| un<br>· ·                                                                                                                         | AG                      |                                                                            | MPLE<br>C    | 10       |          |   |                |         |        |                  |            |          | Ľ                      | $\mathbb{R}$       | 致                       | <b>`</b>                                         | EB.                |                | 5             |                |
|                                                                                                                                   | AN                      |                                                                            |              |          |          |   |                |         |        |                  |            |          | PROJECT INFORMATION    | 1.4                | - K                     |                                                  | SAMPLE RECEIPT     | St.            | 0 B           |                |
| n<br>Pho                                                                                                                          | I                       | ANY<br>ESS<br>ANY<br>ANY                                                   | 2 0          | 引生       |          |   |                |         |        |                  |            |          | lä.                    | M                  | نن<br>ن                 | Ä                                                | SAI                | <b>B</b>       |               |                |
| ca.                                                                                                                               | し<br>い<br>し             | COMPANY:<br>ADDRESS:<br>PHONE:<br>FAX:<br>BILL TO:<br>COMPANY:<br>ADDRESS: | 10 - X       | 201      |          |   |                |         |        |                  |            |          | R S                    | Ş                  | NAM                     |                                                  |                    | E              |               | NA.            |
| $\mathcal{A}merican\ Environmental\ Network\ (NM),\ Inc.$ Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hils • Columbia | <b>PROJECT MANAGER:</b> | COMPAN<br>ADDRES<br>PHONE:<br>FAX:<br>BILL TO:<br>COMPAN<br>ADDRES         |              |          | 1        |   |                |         |        |                  |            |          | 12.5                   | PROJ. NO.:         | PROJ. NAME              | P.O. NO.:<br>SHIPPED VIA:                        |                    | NO: CONTAINERS | CUSTODY/SEALS |                |
| nerq<br>JUC                                                                                                                       | Ē                       |                                                                            | 6            | 10       |          |   |                |         |        |                  |            |          | ~                      | ЪЩ                 | PR                      | D. L.                                            |                    | 2              | 3/1 准         |                |
| 1<br>Ibnc                                                                                                                         | <b>24</b> 57            | VINO BEN BALIBOREDNIK                                                      | VARE (* 187) | N. S. S. | io bint  |   | 963 <b>8</b> 0 |         |        | _                | _          |          |                        |                    |                         |                                                  |                    |                |               |                |
| <u>ست</u> ر                                                                                                                       |                         |                                                                            |              | uw 1     | 77/      |   | 102            |         | - 1 mg |                  | _          | 1141/    | 20                     |                    |                         |                                                  |                    |                | I 3SI         |                |

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AEN I.D. 710505

December 16, 1997

American Environmental Network-NM 2709-D Pan American Frwy, NE Albuquerque, NM 87107

Project Name/Number: NMOCD/710420

Attention: Kimberly D. McNeill

On 10/31/97, American Environmental Network (Arizona), Inc., received a request to analyze aqueous sample(s). The sample(s) 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.

Calcium, potassium, magnesium and sodium analyses were performed by AEN (Oregon), 17400 SW Upper Boones Ferry Rd., Ste. 270, Durham, OR 97224 (See Attachment 1).

Due to matrix interferences, EPA method 8270 analysis of sample 710420-01 was performed at a dilution. The reporting limits have been raised accordingly.

Low surrogate recovery for 2,4,6-tribromophenol by EPA method 8270 for sample 710420-01 was confirmed by re-analysis.

EPA method 8270 QC data which exceed AEN control limits are flagged "\*". All results have been verified and the compound is not detected in the sample.

AEN I.D. 710505

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

aucia Mith

Marcia A. Smith Project Manager MS/acc

Enclosure

ADHS License No. AZ0061 Alan Kleinschmidt, Regional General Manager

| CLIENT<br>PROJECT #<br>PROJECT NAM | : AMERICAN ENV. NETWORK OF N<br>: 710420<br>E : NM OCD<br>ATI I.D. : 710 | REPORT             | CCEIVED : 10/31/97<br>DATE : 12/16/97 |
|------------------------------------|--------------------------------------------------------------------------|--------------------|---------------------------------------|
| <br>ATI #                          | CLIENT DESCRIPTION                                                       | MATRIX             | DATE COLLECTED                        |
| 01<br>02                           | 710420-01<br>710420-02                                                   | AQUEOUS<br>AQUEOUS | 10/28/97<br>10/28/97                  |

---- TOTALS -----

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| MATRIX  | . # SAMPLES |
|---------|-------------|
|         |             |
| AQUEOUS | 2           |

#### ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

### GENERAL CHEMISTRY RESULTS

1 .

|                                              |         |        |       | ATI I.D. : 710505        |
|----------------------------------------------|---------|--------|-------|--------------------------|
| CLIENT : AMERICAN ENV.<br>PROJECT # : 710420 | NETWORK | OF NM, | INC.  | DATE RECEIVED : 10/31/97 |
| PROJECT NAME : NM OCD                        |         |        |       | REPORT DATE : 12/16/97   |
| PARAMETER                                    | UNITS   | 01     | 02    |                          |
| CARBONATE (CACO3)                            | MG/L    | <1     |       |                          |
| BICARBONATE (CACO3)                          | MG/L    | 372    | -     |                          |
| HYDROXIDE (CACO3)                            | MG/L    | <1     | -     |                          |
| TOTAL ALKALINITY (AS CACO3)                  | MG/L    | 372    | -     |                          |
| BROMIDE (EPA 300.0)                          | MG/L    | 200    | -     |                          |
| CHLORIDE (EPA 325.2)                         | MG/L    | 98000  | -     |                          |
| CONDUCTIVITY, (UMHOS/CM)                     |         | 286000 | -     |                          |
| FLUORIDE (EPA 340.2)                         | MG/L    | 0.57   | -     |                          |
| NO2/NO3-N, TOTAL (353.2)                     | MG/L    | -      | <0.06 |                          |
| PH (EPA 150.1)                               | UNITS   | 7.3    | -     |                          |
| SULFATE (EPA 375.2)                          | MG/L    | 2900   | -     |                          |
| T. DISSOLVED SOLIDS (160.1)                  | MG/L    | 160000 | -     |                          |

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### GENERAL CHEMISTRY - QUALITY CONTROL

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| CLIENT : AMERICAN<br>PROJECT # : 710420<br>PROJECT NAME : NM OCD     | IENV. N                              | ETWORK OF                                    | NM, INC            |                                | I.D.               | : 7105                      | 05                       |                         |
|----------------------------------------------------------------------|--------------------------------------|----------------------------------------------|--------------------|--------------------------------|--------------------|-----------------------------|--------------------------|-------------------------|
| PARAMETER                                                            | UNITS                                | ATI I.D.                                     | SAMPLE<br>RESULT   | DUP.<br>RESULT                 | RPD                | SPIKED<br>SAMPLE            |                          | %<br>REC                |
| CARBONATE<br>BICARBONATE<br>HYDROXIDE<br>TOTAL ALKALINITY<br>BROMIDE | MG/L<br>MG/L<br>MG/L<br>MG/L<br>MG/L | 71102001<br>71199908                         | 361<br><1<br>361   | <1<br>361<br><1<br>361<br><1.5 | NA<br>O<br>NA<br>O | NA<br>NA<br>NA<br>NA<br>2.0 | NA<br>NA<br>NA<br>NA     | NA<br>NA<br>NA<br>NA    |
| CHLORIDE<br>CONDUCTIVITY (UMHOS/CM)<br>FLUORIDE<br>NITRITE/NITRATE-N | MG/L<br>MG/L<br>MG/L                 | 71114401<br>71104301<br>71199902             | 330<br>640<br>0.39 | 340<br>641<br>0.39             | 3<br>0.2<br>0      | 850<br>NA<br>1.00           | 1.5<br>500<br>NA<br>0.50 | 133<br>104<br>NA<br>122 |
| PH<br>SULFATE<br>TOTAL DISSOLVED SOLIDS                              | MG/L<br>UNITS<br>MG/L<br>MG/L        | 71050502<br>71041101<br>71038801<br>71199918 | 8.1<br>200         | <0.06<br>8.1<br>210<br>180     | NA<br>0<br>5<br>0  | 1.89<br>NA<br>410<br>NA     | 2.00<br>NA<br>200<br>NA  | 94<br>NA<br>105<br>NA   |

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

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

### METALS RESULTS

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|                                                       |                            | ATI I.D. : 710505        |
|-------------------------------------------------------|----------------------------|--------------------------|
| CLIENT : AMERICAN ENV.<br>PROJECT # : 710420          | NETWORK OF NM, INC.        | DATE RECEIVED : 10/31/97 |
| PROJECT NAME : NM OCD                                 |                            | REPORT DATE : 12/16/97   |
| PARAMETER                                             | UNITS 01                   |                          |
| MERCURY (EPA 245.2/7470)<br>SELENIUM (EPA 270.2/7740) | MG/L <0.0002<br>MG/L 0.025 |                          |

### METALS - QUALITY CONTROL

| CLIENT<br>PROJECT #<br>PROJECT NAME | : AMERICAN<br>: 710420<br>: NM OCD | ENV. N       | ETWORK OF | NM, INC | : 710505                     |           |
|-------------------------------------|------------------------------------|--------------|-----------|---------|------------------------------|-----------|
| PARAMETER                           |                                    | UNITS        | ATI I.D.  |         | SPIKED SPIKE<br>SAMPLE CONC  | %<br>REC  |
| MERCURY<br>SELENIUM                 |                                    | MG/L<br>MG/L |           |         | 0.0052 0.0050<br>0.036 0.050 | 104<br>72 |

% Recovery = (Spike Sample Result - Sample Result) ----- X 100 Spike Concentration RPD (Relative Percent Difference) = (Sample Result - Duplicate Result) ---- X 100

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Average Result

ATI I.D. : 71050501

### TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

| PROJECT # : 710420<br>PROJECT NAME : NM OCD<br>CLIENT I.D. : 710420-01<br>SAMPLE MATRIX : AQUEOUS | NETWORK OF NM, INC. DATE SAMPLED : 10/28/97<br>DATE RECEIVED : 10/31/97<br>DATE EXTRACTED : 11/04/97<br>DATE ANALYZED : 11/18/97<br>UNITS : UG/L<br>DILUTION FACTOR : 5 |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COMPOUNDS                                                                                         | RESULTS                                                                                                                                                                 |
| COMPOUNDS                                                                                         |                                                                                                                                                                         |
| ACENAPHTHENE<br>2,4-DINITROPHENOL<br>4-NITROPHENOL<br>DIBENZOFURAN<br>2,4-DINITROTOLUENE          | <50<br><100<br><50<br><50<br><50                                                                                                                                        |
| 2,6-DINITROTOLUENE                                                                                | <50                                                                                                                                                                     |

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ATI I.D. : 71050501

### TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

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| COMPOUNDS                                   | RESULTS        |
|---------------------------------------------|----------------|
| DIETHYLPHTHALATE                            | <50            |
| 4 - CHLOROPHENYL - PHENYLETHER              | <50            |
| FLUORENE                                    | <50            |
| 4-NITROANILINE                              | <50            |
| 4,6-DINITRO-2-METHYLPHENOL                  | <50            |
| N-NITROSODIPHENYLAMINE                      | <50            |
| 4-BROMOPHENYL-PHENYLETHER                   | <50            |
| HEXACHLOROBENZENE                           | <50            |
| PENTACHLOROPHENOL                           | <50            |
| PHENANTHRENE                                | <50            |
| ANTHRACENE                                  | <50            |
| DI-N-BUTYLPHTHALATE                         | <50            |
| FLUORANTHENE                                | <50            |
| BENZIDINE                                   | <250           |
| PYRENE                                      | <50            |
| BUTYLBENZYLPHTHALATE                        | <50            |
| 3,3'-DICHLOROBENZIDINE                      | <50            |
| BENZO (a) ANTHRACENE                        | <50            |
| BIS (2-ETHYLHEXYL) PHTHALATE                | <50            |
| CHRYSENE                                    | <50            |
| DI-N-OCTYLPHTHALATE                         | <50            |
| BENZO (b) FLUORANTHENE                      | <50            |
| BENZO(k) FLUORANTHENE                       | <50            |
| BENZO(a) PYRENE                             | <50            |
| INDENO(1,2,3-cd) PYRENE                     | <50            |
| DIBENZO(a, h) ANTHRACENE                    | <50            |
| BENZO(g,h,i) PERYLENE                       | <50            |
| 1,2-DPH (AS AZOBENZENE)                     | <50            |
| SURROGATE PERCENT RECOVERIES                |                |
| NITROBENZENE-D5 (%)                         | 66             |
| 2-FLUOROBIPHENYL (%)                        | 68             |
| TERPHENYL (%)                               | 73             |
| PHENOL-D6 (%)                               | 59             |
| 2-FLUOROPHENOL (%)                          | 51             |
| 2,4,6-TRIBROMOPHENOL (%)                    | 39*            |
| * Result out of limits due to sample matrix | x interference |
|                                             |                |

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### TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

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| TEST . SEMI-VOLATILE ORGANICS (EFA 6270)                                             |                                          |
|--------------------------------------------------------------------------------------|------------------------------------------|
| CLIENT : AMERICAN ENV. NETWORK OF NM,<br>PROJECT # : 710420<br>PROJECT NAME : NM OCD | DATE ANALYZED : 11/14/97<br>UNITS : UG/L |
| CLIENT I.D. : REAGENT BLANK                                                          | DILUTION FACTOR : N/A                    |
| COMPOUNDS                                                                            | RESILTS                                  |
| N-NITROSODIMETHYLAMINE                                                               | <10                                      |
| PHENOL                                                                               | <10                                      |
| ANILINE                                                                              | <10                                      |
| BIS (2-CHLOROETHYL) ETHER                                                            | <10                                      |
| 2-CHLOROPHENOL                                                                       | <10                                      |
| 1,3-DICHLOROBENZENE                                                                  | <10                                      |
| 1,4-DICHLOROBENZENE                                                                  | <10                                      |
| BENZYL ALCOHOL                                                                       | <10                                      |
| 1,2-DICHLOROBENZENE                                                                  | <10                                      |
| 2-METHYLPHENOL                                                                       | <10                                      |
| BIS (2-CHLOROISOPROPYL) ETHER                                                        | <10                                      |
| 4-METHYLPHENOL<br>N-NITROSO-DI-N-PROPYLAMINE                                         | <10<br><10                               |
| HEXACHLOROETHANE                                                                     | <10                                      |
| NITROBENZENE                                                                         | <10                                      |
| ISOPHORONE                                                                           | <10                                      |
| 2-NITROPHENOL                                                                        | <10                                      |
| 2,4-DIMETHYLPHENOL                                                                   | <20                                      |
| BENZOIC ACID                                                                         | <50                                      |
| BIS (2-CHLOROETHOXY) METHANE                                                         | <10                                      |
| 2,4-DICHLOROPHENOL                                                                   | <10                                      |
| 1,2,4-TRICHLOROBENZENE                                                               | <10                                      |
| NAPHTHALENE                                                                          | <10                                      |
| 4-CHLOROANILINE                                                                      | <10                                      |
| HEXACHLOROBUTADIENE                                                                  | <10                                      |
| 4-CHLORO-3-METHYLPHENOL                                                              | <10                                      |
| 2-METHYLNAPHTHALENE                                                                  | <10                                      |
| HEXACHLOROCYCLOPENTADIENE                                                            | <50                                      |
| 2,4,6-TRICHLOROPHENOL                                                                | <10                                      |
| 2,4,5-TRICHLOROPHENOL                                                                | <10                                      |
| 2 - CHLORONAPHTHALENE                                                                | <10                                      |
| 2-NITROANILINE                                                                       | <10<br><10                               |
| DIMETHYLPHTHALATE<br>ACENAPHTHYLENE                                                  | <10                                      |
| 3-NITROANILINE                                                                       | <10                                      |
| ACENAPHTHENE                                                                         | <10                                      |
| 2,4-DINITROPHENOL                                                                    | <20                                      |
| 4-NITROPHENOL                                                                        | <10                                      |
| DIBENZOFURAN                                                                         | <10                                      |
| 2,4-DINITROTOLUENE                                                                   | <10                                      |
| 2,6-DINITROTOLUENE                                                                   | <10                                      |
| DIETHYLPHTHALATE                                                                     | <10                                      |
| 4 - CHLOROPHENYL - PHENYLETHER                                                       | <10                                      |
|                                                                                      |                                          |

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ATI I.D. : 710505

### TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

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| COMPOUNDS                    | RESULTS |
|------------------------------|---------|
|                              |         |
| FLUORENE                     | <10     |
| 4-NITROANILINE               | <10     |
| 4,6-DINITRO-2-METHYLPHENOL   | <10     |
| N-NITROSODIPHENYLAMINE       | <10     |
| 4-BROMOPHENYL-PHENYLETHER    | <10     |
| HEXACHLOROBENZENE            | <10     |
| PENTACHLOROPHENOL            | <10     |
| PHENANTHRENE                 | <10     |
| ANTHRACENE                   | <10     |
| DI-N-BUTYLPHTHALATE          | <10     |
| FLUORANTHENE                 | <10     |
| BENZIDINE                    | <50     |
| PYRENE                       | <10     |
| BUTYLBENZYLPHTHALATE         | <10     |
| 3,3'-DICHLOROBENZIDINE       | <10     |
| BENZO (a) ANTHRACENE         | <10     |
| BIS (2-ETHYLHEXYL) PHTHALATE | <10     |
| CHRYSENE                     | <10     |
| DI-N-OCTYLPHTHALATE          | <10     |
| BENZO(b) FLUORANTHENE        | <10     |
| BENZO(k) FLUORANTHENE        | <10     |
| BENZO (a) PYRENE             | <10     |
| INDENO(1,2,3-cd)PYRENE       | <10     |
| DIBENZO(a,h)ANTHRACENE       | <10     |
| BENZO(g,h,i)PERYLENE         | <10     |
| 1,2-DPH (AS AZOBENZENE)      | <10     |
| SURROGATE PERCENT RECOVERIES |         |
|                              |         |

| NITROBENZENE-D5 (%)      | 68 |
|--------------------------|----|
| 2-FLUOROBIPHENYL (%)     | 64 |
| TERPHENYL (%)            | 88 |
| PHENOL-D6 (%)            | 58 |
| 2-FLUOROPHENOL (%)       | 55 |
| 2,4,6-TRIBROMOPHENOL (%) | 65 |

#### QUALITY CONTROL DATA

| TEST : SEMI-VOLATILE ORGANICS (EPA                                                                                                                                                                                        | 8270)                                                              |                                                                    | ATI I                                                    | I.D.                                                     | :                                                              | 710505                                                         |                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|
| CLIENT : AMERICAN ENV. NETWOR<br>PROJECT # : 710420<br>PROJECT NAME : NM OCD<br>REF I.D. : 71199901                                                                                                                       | rk of Ni                                                           | M, INC.                                                            |                                                          | LE MA                                                    | ATRIX :                                                        | 11/07/<br>AQUEOU<br>UG/L                                       |                                                     |
| COMPOUNDS                                                                                                                                                                                                                 |                                                                    | CONC.<br>SPIKED                                                    |                                                          |                                                          | DUP.<br>SPIKED<br>SAMPLE                                       | DUP.<br>%<br>REC.                                              | RPD                                                 |
| 1,2,4-TRICHLOROBENZENE<br>ACENAPHTHENE<br>2,4-DINITROTOLUENE<br>PYRENE<br>N-NITROSO-DI-N-PROPYL AMINE<br>1,4-DICHLOROBENZENE<br>PENTACHLOROPHENOL<br>PHENOL<br>2-CHLOROPHENOL<br>4-CHLORO-3-METHYLPHENOL<br>4-NITROPHENOL | <10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10<br><10 | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100 | 61<br>79<br>90<br>77<br>67<br>86<br>68<br>70<br>72<br>80 | 61<br>79<br>90<br>77<br>67<br>67<br>68<br>70<br>72<br>80 | 56<br>70<br>78<br>63<br>70<br>61<br>91<br>70<br>73<br>75<br>83 | 56<br>70<br>78<br>63<br>70<br>61<br>91<br>70<br>73<br>75<br>83 | 9<br>12<br>14<br>20*<br>12<br>9<br>6<br>3<br>4<br>4 |

% Recovery = (Spike Sample Result - Sample Result) Spike Concentration RPD (Relative % Difference) = (Spiked Sample - Duplicate Spike) Result Sample Result Average of Spiked Sample

The Phylipping

\* Result out of limits due to sample matrix interference

# DATE OF ANALYSIS REPORT

### AEN ID: 710505

16-Dec-97

| METHOD                            | SAMPLE # | DATE     | ANALYST                |
|-----------------------------------|----------|----------|------------------------|
| ALKALINITY (EPA 310.1)            | 01       | 11/08/97 | DIPTI A. SHAH          |
| BROMIDE (EPA 300.0)               | 01       | 11/18/97 | MARLA WILSON           |
| CHLORIDE (EPA 325.2)              | 01       | 11/26/97 | CARLENE MCCUTCHEON     |
| CONDUCTIVITY, (UMHOS/CM)          | 01       | 11/05/97 | PAUL STRICKLER         |
| FLUORIDE (EPA 340.2)              | 01       | 11/07/97 | DIPTI A. SHAH          |
| MERCURY (245.2/7470)              | 01       | 11/06/97 | TRACY L. SPRANG        |
| NO2/NO3-N, TOTAL (353.2)          | 02       | 11/04/97 | MELISSA HUGHES         |
| PH (EPA 150.1)                    | 01       | 11/04/97 | CARLENE MCCUTCHEON     |
| SELENIUM (EPA 270.2/7740)         | 01       | 11/13/97 | BAYARD A VANDEGRIFT IV |
| SEMI-VOLATILE ORGANICS (EPA 8270) | 01       | 11/18/97 | CORA L. LAURIE         |
| SULFATE (EPA 375.2)               | 01       | 11/12/97 | CARLENE MCCUTCHEON     |
| T. DISSOLVED SOLIDS (160.1)       | 01       | 10/31/97 | DIPTI A. SHAH          |

Methods for Chemical Analysis of Water and Wastes, EPA-600 4-79-020, March 1983

Methods for the Determination of Inorganic Substances in Environmental Samples, EPA-600-R-93/100

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846, 3rd Ed. (9/86), including Updates I (7/92), II (9/94), and III (12/96)

计计算机

#### DATE: 12-11-97

#### ION BALANCE

AEN ACCESSION NUMBER: SAMPLE IDENTIFICATION: CLIENT: 71050501 710420-01 AMERICAN ENVIRONMENTAL NETWORK OF NM, IN

| ANIONS                                                                                                                  | RESULT<br>MG/L                                           | FACTOR<br>ME/L                                                 | TOTAL                                                              |          |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------|
| ALKALINITY<br>(AS CACO3)<br>CHLORIDE<br>FLUORIDE<br>NITRATE AS N (NO3(NO3-N X 4.43)<br>SiO3 (SILICON X 2.71)<br>SULFATE | 372.000<br>98000.000<br>0.570<br><0.06<br>NA<br>2900.000 | 0.02000<br>0.02821<br>0.05264<br>0.01613<br>0.02629<br>0.02082 | 7.44000<br>2764.58000<br>0.03000<br>0.00000<br>0.00000<br>60.37800 |          |
|                                                                                                                         |                                                          | TOTAL ANIONS                                                   |                                                                    | 2832.428 |
| CATIONS                                                                                                                 | RESULT                                                   | FACTOR                                                         | TOTAL                                                              |          |
| CALCIUM<br>POTASSIUM<br>MAGNESIUM<br>SODIUM                                                                             | 2200.000<br>980.000<br>500.000<br>110000.000             | 0.04990<br>0.02558<br>0.08229<br>0.04350                       | 109.78<br>25.06840<br>41.14500<br>4785.00000                       |          |
|                                                                                                                         |                                                          | TOTAL CATIONS                                                  | 5                                                                  | 4960.993 |
|                                                                                                                         |                                                          | %RPD (<10%)*                                                   |                                                                    | -54.62   |
| TOTAL ANIONS/CATIONS<br>TOTAL DISSOLVED SOLIDS<br>ELECTRICAL COND.                                                      | (CALCULATED)<br>(ANALYZED)                               | 214803.770<br>160000<br>286000                                 | %RPD (<15%)*<br>TDS/EC RATIO                                       | 29.24    |
| -                                                                                                                       |                                                          |                                                                | (0.65+/-0.10)                                                      | 0.56     |

4. 61

Пu

\* If either Total Cations or Total Anions <10, then the %RPD Limit is not applicable.

|          |                                                                                   | NINE HR                                                                                                        | CONT                                                                                                            | TO R3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SMU                                                                                                             |                 |          |                 |     |     | +        |                    |        | 6                       |                            |                        |            |                         | 7                  | 1911                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | toneer                       |
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| · -      |                                                                                   |                                                                                                                | 6198/B                                                                                                          | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -01<br>-01                                                                                                      | -               |          |                 |     |     |          |                    |        | (ED BY:                 | lime.                      | AMA<br>Material        |            |                         | 1Y: (LAB)          | Chooles .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Arching                      |
|          |                                                                                   | (                                                                                                              | 11E1 d                                                                                                          | (דכנו                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0758                                                                                                            |                 |          |                 |     |     |          |                    |        | <b>RELINQUISHED BY:</b> | Signature.                 | Pinted Name            |            | Company:                | RECEIVED BY: (LAB) | MARK M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A LAND                       |
| F        |                                                                                   | ) SHE                                                                                                          | _                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _                                                                                                               | -               |          |                 |     |     |          |                    |        | Ē                       | ŝ                          |                        | _          | යි                      |                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 护                            |
|          |                                                                                   | 01E8/018) 20181                                                                                                |                                                                                                                 | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 | _               |          |                 |     | _   | +        |                    | _      | -                       |                            |                        | A          |                         |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| ES-      |                                                                                   | GC/MS (624/82                                                                                                  | the second second second second second second second second second second second second second second second se | and the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of the second diversion of th | the second second second second second second second second second second second second second second second se |                 |          |                 |     | -+- |          | ┿╌┤                | $\neg$ | 1 .                     | (                          | 2                      | 6-0        |                         |                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |
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|          |                                                                                   | (0808/809)                                                                                                     | -                                                                                                               | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _                                                                                                               |                 |          |                 | -+  | -+- | +        | ┼╌┤                |        | BY:                     | Tane:                      | Date                   | 8          | ~                       |                    | Tame:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date                         |
| ANALYSIS |                                                                                   |                                                                                                                |                                                                                                                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 000                                                                                                             | +               |          |                 |     | +   | +-       | ++                 | -      | RELINCALISHED BY:       | 1                          |                        | ال         | 2×                      | BY:                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| Į        |                                                                                   |                                                                                                                |                                                                                                                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 800                                                                                                             | 1               |          |                 |     |     | 1        |                    | -      | Sig I                   | •                          |                        | لکہ        |                         | RECEIVED BY        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 닅                            |
|          |                                                                                   |                                                                                                                | <b>əsb</b> e                                                                                                    | חם פח                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ie IIO                                                                                                          | Γ               |          |                 |     | T   |          |                    |        | N.                      | iii v                      | Printed Name           | rhan Pak   | anbiariboqq             | CEN                | Signahure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Psinled Name:                |
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|          | to to -                                                                           | -                                                                                                              |                                                                                                                 | Cher                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                 |                 |          |                 |     |     | <u>_</u> |                    | 4      | ö                       | -+-                        | +                      | ┿          |                         | 4                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ┥┥                           |
| 1        | <b>Y Y</b>                                                                        |                                                                                                                |                                                                                                                 | wer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _                                                                                                               | 页               |          |                 |     |     | +        | ┝╌┤                |        | SAMPLES SENT TO:        |                            |                        | ŀ          |                         | '                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| F        | 4-9-1                                                                             | MOD SA                                                                                                         | 10                                                                                                              | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | XƏL                                                                                                             |                 |          |                 |     |     |          | ┢╍┼                |        | S SE                    | 8                          |                        | 8          | 5 2                     |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| 10       | and the second second                                                             | 10/10/201                                                                                                      |                                                                                                                 | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1                                                                                                               | Ð               |          |                 | -+- | -+  | +        | $\left  - \right $ |        | Ĩ                       | SAN DIEGO                  | DCMC4                  | PENSADOI A | PORTLAND                | PHOENIX            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| F        |                                                                                   | LCLP (1311)                                                                                                    | Aa siei                                                                                                         | am Al                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | HOH                                                                                                             | $ \rightarrow $ |          | -+              | -+- |     | +        | ┝─┼                |        | ₹S                      | 3                          |                        |            | 2 ĝ                     | Ξ                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| +        |                                                                                   |                                                                                                                |                                                                                                                 | H - sle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                 | ┢╌┥             |          | +               |     | -+- |          | ┝╼┼                | $\neg$ |                         |                            | $\square$              |            |                         | )                  | · , .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N. Pr                        |
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| T        |                                                                                   | <del>اور المالية المكرين عن 1996 ما ال</del> اري.                                                              | 1                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9                                                                                                               |                 |          |                 |     | 1   | +        |                    |        | d in the                | HEI                        |                        |            | 3                       | 50                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
|          | Network                                                                           |                                                                                                                |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LAB ID                                                                                                          |                 | 2        |                 |     |     | 1        |                    |        | SAMPLE RECEIPT          | TOTAL MUMBER OF CONTAINERS | CHAIN OF CUSTODY SEALS |            | RECEIVED GOOD COND/COLD | (Ú                 | - Han                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | . X.                         |
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|          | Ne                                                                                |                                                                                                                | 1                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MATRIX                                                                                                          | A C             | A A      |                 |     |     |          |                    |        | S                       | BEH                        | IST                    |            | 00<br>00                | æ                  | Ĵ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3,                           |
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|          | American Environmental<br>2709-D Pan American Freeway, NE<br>Albuqueque, NM 87107 |                                                                                                                | 1                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |          |                 |     | 1   |          |                    | 1      |                         |                            |                        |            |                         |                    | . [                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |
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|          | Rn'<br>neri                                                                       |                                                                                                                |                                                                                                                 | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 | 2               |          | -+              |     | +   |          |                    | _      |                         | 9                          |                        |            |                         |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| -        | in An<br>Ie, N                                                                    |                                                                                                                |                                                                                                                 | Ve i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                 |                 |          |                 |     |     |          |                    |        | 10<br>I                 | 2                          | J.                     |            | BLANK                   |                    | Ċ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 41                           |
| -        | American Enviro<br>2709-D Pan American Fi<br>Albuquerque, NM 87107                |                                                                                                                |                                                                                                                 | Kim McNeill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                 | 0               | 2        |                 |     |     |          |                    |        | PROJECT INFORMATION     | 710420                     | 020                    |            | E                       |                    | . *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1-11-                        |
|          |                                                                                   |                                                                                                                | GER.                                                                                                            | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 | 1               | 101      |                 |     |     |          |                    |        | <b>N</b>                | T                          | メメ                     |            | N20                     | HISH               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7                            |
|          | Albi<br>Albi                                                                      |                                                                                                                | ANN                                                                                                             | Κi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 묘                                                                                                               | 9               | 1        |                 |     | 1   |          |                    |        | ECT                     | ' ['                       | 2                      | 2          | 1                       | 5                  | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7                            |
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|          | \$ 74                                                                             |                                                                                                                | OE                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S                                                                                                               | 24012           |          |                 |     | 1   |          |                    |        |                         | <b>B</b> YO                | ME                     | 1          | ä                       | STANDARD           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | HAH                          |
| 5        | company:<br>Address:                                                              |                                                                                                                | CLIENT PROJECT MANAGER.                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 | ł        |                 |     |     |          |                    |        |                         | PICUECT NUMBER:            | PROJECT NAME:          | ÷۲         | OC NEQUINED:            | SIA                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DUE DATE:<br>RUSH SUNCHARGE: |
|          | 5                                                                                 |                                                                                                                | E                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |                 |          | 1               |     | 1   | 1        |                    |        |                         |                            | 3                      | OC LEVEL:  | CHE                     | ≥                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DUE DATE:<br>Rush Sunchange  |
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|                                                                                                                                  | .                                                                      |                                                                                   | 4            | N         | <u>.</u> |          | [:       | ·            | ŀ          | •    | ۵<br>        |              | P                          |                 |                                                  |               | 2                                             | たっ               | お             | in 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 seco |                                        |
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|                                                                                                                                  |                                                                        | RCRA Metais by TCLP (Method 1311)                                                 | ╂──          |           |          |          | +        |              |            |      |              |              | 1                          |                 | ļ                                                |               |                                               | 25               | NO<br>NO      | NOT STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Č                                      |
|                                                                                                                                  |                                                                        | (8) alaiaM ARDA                                                                   | <u> </u>     |           |          |          | +        |              |            |      |              |              |                            | linn            | Date.                                            |               | RECEIVED BY: (LAB)                            |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| 5                                                                                                                                | <b>1</b> .                                                             | Target Analyte List Metals (23)                                                   | <u>├</u> ─-  | <u> </u>  | <u> </u> |          | †—       | <del> </del> |            |      |              |              | B<br>A                     |                 |                                                  |               | S                                             | <b>(1)</b>       | ai<br>M       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | :                                      |
| 0                                                                                                                                |                                                                        | Priority Pollutant Metals (13)                                                    |              | <u> </u>  |          | <u> </u> | <u> </u> |              |            |      |              |              | <b>H</b>                   |                 |                                                  |               | BY                                            | 0                |               | HOL<br>M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |
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| 1                                                                                                                                |                                                                        | Nitister / Us                                                                     |              | $\times$  |          |          | 1        |              |            |      | 12           | -            | RELINQUISHED BY:           | Signature       | Printed Name                                     | Company.      | ECEI                                          |                  | *             | nenci                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |
|                                                                                                                                  | 5                                                                      | General Chemistry: Cat a Land                                                     | X            |           |          |          |          |              |            |      | 19           |              | Ĩ                          | Sigi            |                                                  | ů             | Ē                                             | Signat           | E.            | 2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| ド                                                                                                                                |                                                                        |                                                                                   |              |           |          |          |          |              |            |      | $\bigcirc$   | $\mathbf{x}$ |                            |                 | 65/67                                            | ļ             |                                               |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| 10 P                                                                                                                             | 5                                                                      | (0758,858) 2M.DD sbnuogmoD b:DA.ItshueV.eseB                                      | $\succ$      |           |          |          |          |              |            |      |              | 12           | 9                          | 5               | 107                                              | -             | 19                                            |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| B                                                                                                                                | REQUEST                                                                | Herbicides (615/8150)                                                             |              |           |          |          |          |              |            |      |              | 2            | 1                          | 之               | 0/                                               | 1             |                                               |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                                      |
| 2                                                                                                                                | l Cu                                                                   | Pesticides/PCB (608/8080)                                                         |              |           |          |          |          |              |            |      |              |              |                            | Time            | Date:                                            |               |                                               | Time:            | Date:         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| AEN LAB I.D                                                                                                                      |                                                                        |                                                                                   |              |           |          | L        | L        |              |            |      |              |              | B O                        | -               | ર્ટ્ર ટ્ર                                        | $\mathcal{O}$ | 2                                             | -                | 0             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
|                                                                                                                                  | ANALYSIS                                                               | Volatile Organics (8260) GC/MS                                                    | L            |           |          |          |          |              |            |      |              |              | SHE                        | 200             | 0                                                |               | ۱ <u>م</u>                                    |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ĺ                                      |
| >                                                                                                                                | M                                                                      | Volatile Organics (624/8240) GC/MS                                                |              |           |          |          | <u> </u> |              |            |      |              |              | l D                        | R               | ame:                                             | n             | 12                                            |                  | ame:          | 1.'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| 6                                                                                                                                | A                                                                      | Polynuclear Aromatics (6108310)                                                   |              |           |          |          | <u> </u> |              |            |      |              |              | RELINQUISHED BY:           | Inte            |                                                  | X             | * RECEIVED                                    | Signature;       | Printed Name: | Сотралу                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |
| <b>O</b> b                                                                                                                       | 1.<br>1.<br>1.                                                         |                                                                                   |              |           |          |          |          |              |            |      |              |              | Ĩ                          |                 | E<br>D                                           | Com<br>Com    | R.                                            | Sign             | Print         | Соп                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| 5                                                                                                                                |                                                                        | C108                                                                              | X            |           |          |          |          |              |            |      |              |              | i.                         | V               |                                                  |               | J                                             |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| З<br>Ш                                                                                                                           | ALC: N                                                                 | Chlorinated Hydrocarbons (601/8010)                                               |              |           |          |          |          |              |            |      |              |              | L<br>L                     |                 |                                                  |               |                                               | đ                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| CHAIN OF CUSTODY                                                                                                                 |                                                                        | BTEX & Chlorinated Aromatics (602/8020)<br>BTEX/MTBE/EDC & EDB (8020/8010/Short)  |              |           |          |          |          |              |            |      |              | _            | 5                          | (NORMAL)        |                                                  |               |                                               | لعفاصح           |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7107                                   |
| F~                                                                                                                               | 공장                                                                     | BTXE/MTBE (8020)                                                                  |              |           |          |          |          |              |            |      |              |              | PR                         | ž               | 1                                                |               | •                                             | 3                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mour Movies 8710                       |
| 00                                                                                                                               |                                                                        | Gasoline/BTEX & MTBE (M8015/8020)                                                 |              |           |          |          |          |              |            |      |              |              | HSU                        |                 | Ψ                                                |               | -                                             | f                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mov                                    |
| Not                                                                                                                              | 1.12                                                                   | (M8015) Gas/Purge & Trap                                                          |              |           |          |          |          |              |            |      |              | -            | H H                        |                 |                                                  |               |                                               | er.              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mou                                    |
| <b>₹</b> 2                                                                                                                       |                                                                        |                                                                                   |              |           |          |          |          | ~            | -+         |      |              | -            | <u></u>                    |                 |                                                  |               | -                                             | <u>Cie</u>       |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1010                                   |
|                                                                                                                                  |                                                                        | toeinlytoerd/leseid (2108.00M)                                                    |              |           |          |          |          |              | -+         | -    |              |              | Ē                          | ΗÄ              | M                                                |               |                                               |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | human                                  |
|                                                                                                                                  |                                                                        | Petroleum Hydrocarbons (418.1) TRPH                                               |              |           |          |          |          |              |            |      |              | -            | REQUIRED FOR RUSH PROJECTS | 1 WEEK          |                                                  |               |                                               | 54               |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                                      |
| ЧС.<br>oia                                                                                                                       |                                                                        |                                                                                   |              | 1         |          |          |          |              | N. A.      |      |              | 1. : I       | ШШ                         |                 |                                                  |               |                                               | •                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A NO                                   |
| $I), I_{\mathcal{H}}$ Columbi                                                                                                    |                                                                        |                                                                                   | $\hat{\rho}$ | 2         |          |          |          |              |            |      |              | 50-4<br>54   | PRIOR AUTHORIZATION IS     | [] 72hr         |                                                  |               |                                               | son /            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.00.7                                 |
| $\tilde{\swarrow}^{\circ}$                                                                                                       |                                                                        |                                                                                   |              | ್ಷೇವಿ     | -36 ° .  | Sty 1    |          | <u>.</u>     | 237-1)<br> | in G | 3 <u>5</u> 5 | _            | <u>ē</u>                   |                 |                                                  | FIXED FEE     | -                                             | ハ                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| ت<br>د کر                                                                                                                        |                                                                        | Divij<br>755<br>Matrix                                                            | -£           | -2        | .        |          |          |              |            | - {  | ļ            |              | ΙZΑ                        | B               | CERTIFICATION REQUIRED:<br>METHANOL PRESERVATION | DF            |                                               | 2                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
|                                                                                                                                  |                                                                        |                                                                                   | hr.          | -         |          |          |          |              |            |      |              |              | ШU                         | 1 48hr          |                                                  | FIXE          |                                               | 2 <sup>c</sup> d |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <i>tal Network (N</i><br>Porland • Pleasant Hills                                                                                |                                                                        | 1 2 2 C                                                                           | 0            | U         |          |          |          |              |            |      |              |              | Ē                          | ŧ               | ON F<br>PRES                                     | 6             |                                               |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| Ple                                                                                                                              |                                                                        | tion<br>129                                                                       | 69           | 9         | .        |          |          |              |            |      |              |              | RA                         | (RUSH) 24hr     |                                                  | COMMENTS:     |                                               |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| Vet<br>J.                                                                                                                        |                                                                        | PATE DATE                                                                         | 7            | 1         |          |          |          |              |            |      |              |              | E<br>E                     | (HSI            | THA                                              | WW            |                                               |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| ✓ Ilance                                                                                                                         | NOLON                                                                  | 0154<br>- 127-<br>DATE                                                            | 28/9         | 뇄         | .        |          |          |              |            |      | ļ            |              | <u>م</u>                   | Ē               | E E                                              | 18            |                                               |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ALALA .                                |
| Por                                                                                                                              | Ð                                                                      |                                                                                   | 10           | -1        | -        |          |          |              |            |      |              |              |                            |                 |                                                  |               |                                               |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                      |
| е <i>н</i>                                                                                                                       |                                                                        |                                                                                   |              |           |          | _        |          |              | _          |      |              |              |                            |                 |                                                  |               |                                               | S -              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <i>ironme</i><br>Pensacola                                                                                                       | $\vec{B}_{i}$                                                          |                                                                                   |              |           |          |          |          |              |            |      |              |              | NOL                        |                 | 7                                                |               |                                               |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| ,01,<br>ensi                                                                                                                     |                                                                        | N C Control                                                                       |              | 1         |          |          |          |              |            |      |              |              | IMA I                      | Å               | ম                                                |               | EIP                                           |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| in<br>. P                                                                                                                        | <br>い<br>し<br>し<br>し<br>し<br>し<br>し<br>し<br>し<br>し<br>し<br>し<br>し<br>し |                                                                                   | 210          | 20        |          |          |          |              |            |      |              |              | FOF                        | $\mathbf{x}$    | $\mathcal{A}$                                    |               | REC                                           |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| can Envi<br>• Phoenix •                                                                                                          | NA(                                                                    | NY: NLJ<br>SS: 200<br>SS: 100<br>SAMPLE ID                                        | 60           | $\square$ |          |          |          |              |            |      |              |              | PROJECT INFORMATION        | T.              | 5                                                |               | PLE<br>PLE                                    |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| 7 L<br>Phoe                                                                                                                      | MA                                                                     | SS: SS: SS: SS: SS: SS: SS: SS: SS: SS:                                           |              | 4         |          |          |          |              |            |      |              |              | UEC                        | Sr              | 7                                                | 4             | WA                                            |                  |               | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                                      |
| с <i>ц</i> ј.                                                                                                                    | ECT                                                                    | OMPAI<br>DDRES<br>HONE<br>AX:<br>AX:<br>COMPA<br>DDRE                             |              | 107       |          |          |          |              |            |      |              |              | PRO                        | 0               | AME                                              | D VI          |                                               |                  |               | No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| Sr. Ine                                                                                                                          | <b>PROJECT MANAGER:</b>                                                | COMPANY:<br>ADDRESS:<br>PHONE:<br>FAX:<br>BILL TO:<br>COMPANY:<br>ADDRESS:<br>SAI | -            | 17        |          |          |          |              |            |      |              |              |                            | PROJ. NO.:      | PROJ. NAME<br>P.O. NO.:                          | SHIPPED VIA   | A A A SAMPLE RECEIP                           |                  | RECEIVE       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AVVOE ACN I-                           |
| $\mathcal{American}\ Emvironmental\ Network\ (NM),\ Inc.$ ouquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia | ă                                                                      |                                                                                   | 6            | 6         |          |          |          |              | _          |      |              |              |                            | ЪН              | E C                                              | R             | 5-1<br>-                                      | <b>2</b> ]2      | 31 12         | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | )Ę                                     |
| Anneri.<br>Albuquerque                                                                                                           | 2 %.<br>•                                                              | VINO JSU BAI HOJ JAA SA                                                           | วบ           | H n       |          | ¥1       | 16       |              |            |      | <br>- ר נ    |              |                            |                 | воя                                              | CII           |                                               |                  | 307           | <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <br>ł                                  |
| $\mathcal{J}^{\mathbf{x}}$                                                                                                       |                                                                        |                                                                                   |              | v U       | 11 U<br> |          | 13       |              |            | 312  | 3 10         | 1140         |                            | <b>NI 19</b> 14 | 203                                              | 31            | ، <u>ــــــــــــــــــــــــــــــــــــ</u> |                  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | *                                      |

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# ATTACHMENT 1



17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 684-0447

Marcia Smith AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

Date: 12/10/1997 AEN Account No.: 80 AEN Job Number: 97.03081

Project: 710505 Location:

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

| Sample |                    | Matrix | Date       | Date       |
|--------|--------------------|--------|------------|------------|
| Number | Sample Description | Туре   | Taken      | Received   |
| 88188  | 710505-01          | Water  | 10/28/1997 | 12/04/1997 |

Approved by: And iV Hoevet Project Manager AEN, INC.

Technical Review AEN, INC.

The results from these samples relate only to the items tested. This report shall not be reproduced, except in full, without the written approval of the laboratory.

### Analytical Services for the Environment

### ANALYTICAL REPORT

Marcia Smith AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

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12/10/1997 Job No.: 97.03081

Page: 2

Project Name: 710505 Date Received: 12/04/1997

Sample NumberSample Description88188710505-01

| PARAMETERS               | METHODS | RESULTS | REPORT LIMIT | UNITS | DATE ANALYZED | FLAG  |
|--------------------------|---------|---------|--------------|-------|---------------|-------|
| ICP/AA Digestion - Water | ICP     | -       |              |       | 12/05/1997    |       |
| Calcium, ICP 200.7       | 200.7   | 2200    | 5.00         | mg/L  | 12/09/1997    | DIL,Q |
| Magnesium, ICP 200.7     | 200.7   | 500     | 5.00         | mg/L  | 12/09/1997    | DIL,Q |
| Potassium, ICP 200.7     | 200.7   | 980     | 20.0         | mg/L  | 12/09/1997    | DIL,Q |
| Sodium, ICP 200.7        | 200.7   | 110000  | 2000         | mg/L  | 12/09/1997    | DIL,Q |

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

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American Environmental Network, Inc.(503)684-0447(503)620-0393FAX17400 SW Upper Boones Ferry Rd., Suite 270, Portland, OR 97224

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### **OUALITY CONTROL REPORT** CONTINUING CALIBRATION VERIFICATION

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

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Date: 12/10/1997

Job Number: 97.03081

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Contact: Marcia Smith Project: 710505

|                      | CCV           |               |          |            |
|----------------------|---------------|---------------|----------|------------|
|                      | True          | Concentration | Percent  | Date       |
| Analyte              | Concentration | Found         | Recovery | Analyzed   |
|                      |               |               |          |            |
| Calcium, ICP 200.7   | 25.0          | 24.0          | 96.0     | 12/09/1997 |
| Magnesium, ICP 200.7 | 25.0          | 25.1          | 100.4    | 12/09/1997 |
| Potassium, ICP 200.7 | 5.00          | 4.83          | 96.6     | 12/09/1997 |
| Sodium, ICP 200.7    | 5.00          | 4.91          | 98.2     | 12/09/1997 |
|                      |               |               |          |            |

 $\mathtt{CCV}$  - Continuing Calibration Verification

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American Environmental Network, Inc. (503)684-0447 (503)620-0393 FAX 17400 SW Upper Boones Ferry Rd., Suite 270, Portland, OR 97224

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### **QUALITY CONTROL REPORT** LABORATORY CONTROL STANDARD

Date: 12/10/1997

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

Job Number: 97.03081

Contact: Marcia Smith Project: 710505

|                      | LCS           |               |            |       |            |
|----------------------|---------------|---------------|------------|-------|------------|
|                      | True          | Concentration | LCS        |       | Date       |
| Analyte              | Concentration | Found         | % Recovery | Flags | Analyzed   |
| Calcium, ICP 200.7   | 5.00          | 4.64          | 92.8       |       | 12/09/1997 |
| Magnesium, ICP 200.7 | 5.00          | 4.86          | 97.2       |       | 12/09/1997 |
| Potassium, ICP 200.7 | 5.00          | 6.77          | 135.4      |       | 12/09/1997 |
| Sodium, ICP 200.7    | 5.00          | 5.25          | 105.0      |       | 12/09/1997 |

LCS - Laboratory Control Standard

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American Environmental Network , Inc. (503)684-0447 (503)620-0393 FAX 17400 SW Upper Boones Ferry Rd., Suite 270, Portland OR 97224

### OUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Date: 12/10/1997

Job Number: 97.03081

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

Contact: Marcia Smith Project: 710505

|                      | Matrix |        |        |       |          |        | MSD    |       |          |        |        |  |
|----------------------|--------|--------|--------|-------|----------|--------|--------|-------|----------|--------|--------|--|
|                      | Spike  | Sample | Spike  |       | Percent  | MSD    | Spike  |       | Percent  | MS/MSD |        |  |
| Analyte              | Result | Result | Amount | Units | Recovery | Result | Amount | Units | Recovery | RPD    | Flags  |  |
| Calcium, ICP 200.7   |        | 280    | 5,00   | mg/L  |          |        | 5.00   | mg/L  |          |        | MD     |  |
| Magnesium, ICP 200.7 |        | 94     | 5.00   | mg/L  |          |        | 5.00   | mg/L  |          |        | MD     |  |
| Potassium, ICP 200.7 | 20.4   | 12     | 5,00   | mg/L  | 168.0    | 20.4   | 5.00   | mg/L  | 168.0    | 0.0    | DILQ,M |  |
| Sodium, ICP 200.7    |        | 350    | 5,00   | mg/L  |          |        | 5.00   | mg/L  |          |        | DIL,Q, |  |

QC Sample:

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NOTE: Matrix Spike Samples may not be samples from this job.

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MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
dil.= Diputed Out

American Environmental Network, Inc. (503)684-0447 (503)620-0393 FAX 17400 SW Upper Boones Ferry Rd., Portland, OR 97224

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# QUALITY CONTROL REPORT BLANKS

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

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Date: 12/10/1997

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Job Number: 97.03081

Contact: Marcia Smith Project: 710505 Location:

|                      | Blank    | Report |       | Date       |
|----------------------|----------|--------|-------|------------|
| Analyte              | Analysis | Limit  | Units | Analyzed   |
|                      |          |        |       |            |
| Calcium, ICP 200.7   | ND       | 0.05   | mg/L  | 12/09/1997 |
| Magnesium, ICP 200.7 | ND       | 0.05   | mg/L  | 12/09/1997 |
| Potassium, ICP 200.7 | ND       | 0.2    | mg/L  | 12/09/1997 |
| Sodium, ICP 200.7    | ND       | 0.2    | mg/L  | 12/09/1997 |
|                      |          |        |       |            |

American Environmental Network, Inc. (503)684-0447 (503)620-0393 FAX 17400 SW Upper Boones Ferry Rd., Portland, OR 97224

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FLAG GLOSSARY

This sample does not have a typical gasoline pattern. Α **B1** This sample does not have a typical diesel pattern. в Analyte found in the associated blank as well as the sample. Ċ The sample contains a lighter hydrocarbon than gasoline. CN See case narrative CS Outside control limits or unusual matrix; see case narrative. D The sample extends to a heavier hydrocarbon range than gasoline. Results on a dry weight basis d DIL Result was calculated from dilution. ε The sample extends to a lighter hydrocarbon range than diesel. F The sample extends to a heavier hydrocarbon range than diesel. G The positive result for gasoline is due to single component comtamination. I The oil pattern for this sample is not typical. J The result for this compound is an estimated concentration. Ъ The LCS recovery exceeded control limits. See the LCS page of this report. T.M The LCS recovery exceeded control limits; the MS/MSD were in control validating the batch. М MS and/or MSD percent recovery exceeds control limits. MD Unable to calculate MS/MSD recovery due to high amount of analyte; greater than 4 times spike level. MR The MS/MSD RPD is greater than method critera. The sample was re-extracted and re-analyzed with similar results indica a non-homogeneous sample. MM The Matrix Spike exceeded control limits; LCS/LCS-D were in control validating the batch. MI Outside control limits due to matrix interference. N Manual integration performed on sample for quantification. N/A Not Applicable. NC Not calcuable. NO Not Analyzed. Ρ A post digestion spike was analyzed, and recoveries were within control limits. 0 Detection limits elevated due to sample matrix. 01 Detection limits elevated due to high levels of non-target compounds. Sample(s) run at a dilution. The duplicate RPD was greater than 20%. The sample was re-extracted and re-analyzed with similar results. This R indicates a matrix interference in the sample, likely a non-homogeneity of the sample. RD RPD not applicable for results less than five times the reporting limit. RP MS/MSD RPD is greater than 20% SR Surrogate recovery outside control limits. See the surrogate page of the report.

SD Unable to quantitate surrogate due to sample dilution.

SC Sample not provided to laboratory in proper sampling container.

V Volatile analysis was requested, sample container received with headspace.

X1 The duplicate RPD was greater than 20%. Due to insufficient sample, re-analysis was not possible.

X Sample was analyzed outside recommended holding times.

Y The result for this parameter was greater than the TCLP regulatory limit.

Z The pattern seen for the parameter being analyzed is not typical.

| /97 PAGE / OF /                                          |                  |             | <br>                                                                                                        | 2,                     | к<br>К<br>200  | ARL F                    | ISHER<br>G          | ASE                                      | BESTOS<br>PA 528<br>PA 1613              |      |   |              |   |  |  | JISHED BY:          | Signature. Time:               | Printed Name: Date:    | Contrany                                                            |                     | D BY: (LAB) |                              | Printed Name: Date:     | Сопрану:   | DISTRIBUTION: White. Canary - AEN (Auzona), Inc. • Pink - ORIGINATOR                                                                     |
|----------------------------------------------------------|------------------|-------------|-------------------------------------------------------------------------------------------------------------|------------------------|----------------|--------------------------|---------------------|------------------------------------------|------------------------------------------|------|---|--------------|---|--|--|---------------------|--------------------------------|------------------------|---------------------------------------------------------------------|---------------------|-------------|------------------------------|-------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------|
| b<br>ustody DATE.                                        | ANALYSIS REQUEST |             | VOL                                                                                                         | ATIL                   | EORG           | SU                       | TOT<br>FEC<br>RFACT | EPA 610<br>TAL COL<br>TAL COL<br>TANTS ( | COE<br>BOE<br>LIFORM<br>(MBAS)           |      |   |              |   |  |  | ENT TO: RE          | PERSACOLA Signation ULL MALLED | TIC VINITAME           | ALBUQUE CONFIGURATION AND A BUQUEBOUE CONFIGURATION AND A BUDUEBOUE |                     |             | H-URI COLLINS NOTABULY I TEW | Date Antica Manuel Date | Compart Tr |                                                                                                                                          |
| Interlab<br>Chain of Custody                             |                  | <i>H</i>    | nk (Arizona), Inc.                                                                                          |                        |                | G<br>0 <sub>2</sub> , CO | RAD<br>ROSS         | IUM 22<br>ALPHA<br>THANE,                | 26 / 228<br>/ BETA<br>CO, N <sub>2</sub> |      | + |              |   |  |  | SAMPLE RECEIPT      | TOTAL NUMBER OF CONTAINERS     | CHAIN OF CUSTODY SEALS | RECEIVED GOOD COND. / COLD                                          | LAB NUMBER 47,03081 |             | P rease / Melins +           | mudcon /                |            | Albuquerque (505) 344-3777 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Columbia (410) 730-8525 • Pleasant Hill (510) 930-9090 |
| American<br>Bunironmental<br>MEN Network (Arizona), Inc. | kΓ               | MARCH UNITH | COMPANY: <i>American Environmental Network (Arizona), Inc.</i><br>ADDRESS: 9830 S. 51st Street, Suite B-113 | Phoenix, Arizona 85044 | (602) 496-4400 |                          |                     |                                          | SAMPLE ID DATE                           | 2 10 |   | 1105 05 - 0d | Ó |  |  | PROJECT INFORMATION | PROJECT NUMBER: 7/0505         | PROJECT NAME:          | STANDA                                                              | WORKORDER #         |             | DUE DATE                     | HIME:                   |            | AEN Labs: Albuquerque (505) 344-3777 • Pensacola (904) 47                                                                                |

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|-----------|-------------|--------------------------------------------------------------|-------------|----------------|-------------------------------------------------------------------|--|--|--|--|--|--|
|           |             | FAX                                                          | TRANSMITTAL |                | DEC 3 1 1997<br>Environmental Bureau<br>Oil Conservation Division |  |  |  |  |  |  |
| DELIVER T | :0: <u></u> | Bu Ocson                                                     |             | PHONE NUMBER:  |                                                                   |  |  |  |  |  |  |
| COMPANY   | -<br>-<br>- | NMID                                                         |             | FAX NUMBER:    | 505-827-8177                                                      |  |  |  |  |  |  |
| NUMBER O  | F PAGES I   | BEING SENT:                                                  | // (INCLUD  | ING THIS PAGE) |                                                                   |  |  |  |  |  |  |
| FROM:     |             |                                                              |             | DATE:          | 12/11                                                             |  |  |  |  |  |  |
| <u> </u>  | Kimberly    | D. McNeill, Proje                                            |             | TIME:          |                                                                   |  |  |  |  |  |  |
|           | John Cald   | iansky, Senior Cho<br>dwell, Sample Cor<br>Torivio, Administ | ntrol       | FAX NUI        | NUMBER: (505) 344-4413                                            |  |  |  |  |  |  |

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### **COMMENTS:**

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DEC 10 '97 02:26PM AEN PORTLAND



<u>American Environmental Network, Inc.</u>

17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 684-0447

Marcia Smith AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

Date: 12/10/1997 AEN Account No.: 80 AEN Job Number: 97.03081

P.9/22

Project: 710505 Location:

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

| Sample |                    | Matrix | Date       | Date       |
|--------|--------------------|--------|------------|------------|
| Number | Sample Description | Type   | Takon      | Received   |
| A81#8  | 710805-01          | Waler  | 10/28/1997 | 12/04/1997 |

Approved by:

710420

Andi Hoevet Project Manager AEN, INC.

Technical Review AEN, INC.

The results from these samples relate only to the items tested. This report shall not be reproduced, except in full, without the written approval of the laboratory.

ANALYTICAL SERVICES FOR THE ENVIRONMENT

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# ANALYTICAL REPORT

12/10/1997 Job No.: 97.03081

BANK 18787 V725

PLAG

Marcia Smith AEN - Phoenix 9830 8 51st Street Suite B-113 Phoenix, AZ 85044

Page; 2

Project Name: 710505 Date Received: 12/04/1997

Sample Number Sample Description Salas 710505-01

| PARLMETREE                                                        | METHODS                 | RESULTS          | REPORT LIMIT | UNITS        | 12/05/1997               | a sectores       |
|-------------------------------------------------------------------|-------------------------|------------------|--------------|--------------|--------------------------|------------------|
| ICP/AA Digestion - Weter<br>Calcium, ICP 200.7                    | ICP<br>200.7            | -<br>2200<br>500 | 5.00<br>5.00 | mg/L<br>mg/L | 12/09/1997<br>12/09/1997 | dil.Q<br>Dil.Q   |
| Magnosium, ICP 200.7<br>Rotabsium, ICP 200.7<br>Bodium, ICP 200.7 | 200.7<br>200.7<br>200.7 | 980<br>110000    | 0.06         | mg/L<br>mg/L | 12/09/1997<br>12/09/1997 | dil, q<br>Dil, q |



A samplo result of MD indicates the parameter was Not Detected at the reporting limit.

American Environmentol Matwork, Inc. (503) 664-0447 (603) 620-0393 FAX 17400 SW Upper Econes Forty Rd., Suite 270, Porcland, OR 07224

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### OUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Date: 12/10/1997

Job Number: 97.03081

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

Contact: Marcia Smith Project: 710505

| Analyte              | conconeration<br>Leng<br>Conconeration | Concentration<br>Yound | Persens<br>Rocavery | Dat#<br>Analyzed |
|----------------------|----------------------------------------|------------------------|---------------------|------------------|
|                      | 25.0                                   | 24.0                   | 96.0                | 12/03/1997       |
| Caldium, ICP 200.7   |                                        | 25.1                   | 100.4               | 12/03/1997       |
| Magnesium, ICP 200.7 | 25.0                                   | 4.83                   | 96.6                | 22/09/2897       |
| Porassium, ICP 200.7 | 5.00                                   |                        | 99.2                | 12/09/1997       |
| sodium. ICP 200.7    | 5.00                                   | 4.91                   | <b>*</b> **         |                  |

CCV - Concinuing Calibration Verification

American Environmental Network, Inc. (508)684-0447 (503)620-0193 VAR 17400 SU Upper Boones Forry Rd., Suite 370, Fortland, OR 97224

ALCOLUMN THE
### QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

### Date: 12/10/1997

Job Number: 97.03081

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 65044

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Contact: Marcia Smith Project: 710505

|                               | LCS                   |                        | LCS        |       | DATE                     |  |  |
|-------------------------------|-----------------------|------------------------|------------|-------|--------------------------|--|--|
| <b>-</b>                      | Truc<br>Conceptration | Concentración<br>Found | * Redovery | 71ag# | Analyzed                 |  |  |
| Analyce<br>Calcium, ICP 200.7 | 5.00                  | 4.64                   | 92.5       |       | 12/09/1997               |  |  |
| Mognesium, ICF 200.7          | 5,00                  | 4,65                   | 97.2       |       | 12/09/1997<br>12/09/1997 |  |  |
| Potagaium, ICP 300.7          | 5.00                  | 6.77                   | 135.4      |       | 12/09/1997               |  |  |
| Sodium, ICP 200.7             | 5.00                  | 5.25                   | 105.0      |       | 10/03/135/               |  |  |

LCS - Laboratory Control Standard

American Environmental Network , Inc. (503)684-0447 (503)620-0393 FAX 17400 SW Upper Roomes Ferry Kd., Suite 270, Pereland OR 97224

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### OUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Date: 12/10/1997

Job Number: 97.03081

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

Contact: Marcia Smith Project: 710505

| Analyte                                                                                 | Matrix<br>Spike<br>Røsult | Sample<br>Regult       | Spike<br>Amount              | Units                        | Percent<br>Recovery | MSD<br>Ræsult | NSD<br>Spike<br>Ancuac       | Unita                        | Percont<br>Recovery | mg/ <b>MSD</b><br>RPD | Flage                        |
|-----------------------------------------------------------------------------------------|---------------------------|------------------------|------------------------------|------------------------------|---------------------|---------------|------------------------------|------------------------------|---------------------|-----------------------|------------------------------|
| Calcium, ICP 200.7<br>Magnesium, ICP 200.7<br>Fotassium, ICP 200.7<br>Sodium, ICF 200.7 | 20 - <del>1</del>         | 280<br>94<br>12<br>350 | 5,00<br>5,00<br>5,00<br>5,00 | mg/l<br>mg/l<br>mg/l<br>mg/l | 165.0               | 20.4          | 5.00<br>5.00<br>5,00<br>5,00 | mg/L<br>mg/L<br>mg/L<br>mg/L | 168.0               | 0.0                   | nd<br>Md<br>Dilq.n<br>Dil.q, |

QC Sample:

NOTE: Matrix Spike Samples may not be samples from this job.

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference dil.= Diluted Out (501)630:0283

American Environmental Network, Inc. (503)684-0447 (503)620-0393 FAX 17500 SE Upper Boones Ferry Rd., Fortland, OR 97234

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### QUALITY CONTROL REPORT

Date: 12/10/1997

AEN - Phoenix 9830 S 51st Street Suite B-113 Phoenix, AZ 85044

Job Number: 97.03081

Contact: Marcia Smith Project: 710505 Location:

| Yualiyee                                                                                | Blank<br>Analysio        | Roport<br>Limic            | Unise                        | Dace<br>Analyzed                                                   |
|-----------------------------------------------------------------------------------------|--------------------------|----------------------------|------------------------------|--------------------------------------------------------------------|
| Calcium, ICP 300.7<br>Magnesium, ICP 200.7<br>Potassium, ICP 200.7<br>Sodium, ICP 200.7 | בזא<br>נדע<br>נדע<br>נדע | 0.05<br>0.05<br>0.2<br>0.2 | ng/l<br>ng/l<br>mg/l<br>ng/l | 12/09/1997<br>12/09/1997<br>12/09/1997<br>12/09/1997<br>12/09/1997 |

American Environmental Metwork, Inc. (503)684-0447 (503)620-0393 FAX 17400 SN Upper Boonst Farry Rd., Fortland, OR 57224

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### FLAG GLOSSARY

- A This sample does not have a typical gaseline pattern.
- El This sample doos not have a typical diesel pattern.
- B Analyte found in the associated blank as well as the sample.
- C The sample contains a lighter hydrocarbon than gasoline.
- CN Sec case narrative

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- CS Outside concrol limits of unusual matrix; see case marrative.
- D The sample extends to a heavier hydrocathon range than gasoline.
- d Results on a dry weight basis
- DIL Regult was calculated from dilution.
- E The sample excends to a lighter hydrosarbon range than diosel.
- F The sample extends to a hosvier hydrocarbon range than dissal.
- O The positive result for gasoline is due to single component comtamination.
- I The oil pattern for this sample is not typical.
- J The result for this compound is as estimated concentration.
- L The LCS recovery exceeded control limits. See the LCS page of this report.
- M MS and/or MSD percent recovery exceeds control limits.
- MD Unable to calculate MS/MSD recovery due to high amount of analyto; groater than 4 times spike level.
- MR The MS/MSD RPD is greater than method criters. The sample was re-extracted and ro-analyzed with similar results indica a non-homogeneous sample.
- MM The Natrix Spike exceeded control limits; LCS/LCS-D wore in control validating the batch.
- MI Outside control limits due to matrix interference.
- N Menual integration performed on sample for quantification.
- N/A Not Applicable.
- NC Not calcuable.
- NO Not Analyzed.
- P A post digertion spike was analyzed, and resoveries were within control limits.
- Q Detection limits clevated due to cample matrix.
- Q1 Detection limits elevated due to high levels of non-target compounds. Sample (s) wun at a dilution.
- R The duplicate RMD was greater than 20%. The sample was re-extracted and re-analyzed with similar results. This indicates a matrix interference in the sample, likely a non-homogeneity of the sample.
- RD RPD not applicable for results less than five times the reporting limit.
- RP MS/MSD RPD is greater than 20%

- SR Surrogace recovery outside control limits, say the surrogate page of the report.
- SD Unable to quantitate surregate due to sample dilution.
- SC Sample not provided to laboratory in proper sampling container.
- V Volatile analysis was requested, sample container received with headspace.
- X1 The duplicate RPD was greater than 200. Due to insufficient sample, re-analysis was not possible.
- Y Sample was analysed outside recommended holding times.
- Y The result for this parameter was greater than the TCLP regulatory limit.

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Z The pattern seen for the parameter being analyzed is not typical.

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| ,                                            |           |                  | ATI 1.D. 2 710505        |
|----------------------------------------------|-----------|------------------|--------------------------|
| CLIENT : AMERICAN ENV.<br>PROJECT # : 710420 | NETWORK C | FNM, INC.        | DATE RECEIVED : 10/31/97 |
| PROJECT NAME : NM OCD                        |           |                  | REPORT DATE : 12/11/97   |
| PARAMETER                                    | UNITS     | 01               |                          |
| MERCURY (EPA 245.2/7470)<br>ION BALANCE      | MG/L      | <0.0002<br>(INC) |                          |
| SELENIUM (EPA 270.2/7740)                    | MG/L      | 0.025            |                          |

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DEC 11 .35 D2:SEPM REN NEW MEXICO

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ATI I.D. : 71050501

### TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

| CLIENT : AMERICAN ENV. NETWORK OF<br>PROJECT # : 710420<br>PROJECT NAME : NM OCD<br>CLIENT I.D. : 710420-01<br>SAMPLE MATRIX : AQUEOUS | DATE RECEIVED : 10/31/97<br>DATE EXTRACTED : N/A<br>DATE ANALYZED : 11/18/97<br>UNITS : UG/L<br>DILUTION FACTOR : 5 |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| COMPOUNDS                                                                                                                              | RESULTS                                                                                                             |
| N-NITROSODIMETHYLAMINE                                                                                                                 |                                                                                                                     |
| PHENOL                                                                                                                                 | <50<br>200                                                                                                          |
| ANILINE                                                                                                                                | <50                                                                                                                 |
| BIS (2-CHLOROETHYL) ETHER                                                                                                              | <50                                                                                                                 |
| 2 - CHLOROPHENOL                                                                                                                       | <50                                                                                                                 |
| 1, 3-DICHLOROBENZENE                                                                                                                   | <50                                                                                                                 |
| 1,4-DICHLOROBENZENE                                                                                                                    | <50                                                                                                                 |
| BENZYL ALCOHOL                                                                                                                         | <50                                                                                                                 |
| 1,2-DICHLOROBENZENÉ                                                                                                                    | <50                                                                                                                 |
| 2-METHYLPHENOL                                                                                                                         | 110                                                                                                                 |
| BIS (2-Chloroisopropyl) ether                                                                                                          | <50                                                                                                                 |
| 4-Mèthylphenol                                                                                                                         | 93.                                                                                                                 |
| N-NITROSO-DI-N-PROPYLAMINE                                                                                                             | <50                                                                                                                 |
| HEXACHLOROETHANE                                                                                                                       | <50                                                                                                                 |
| NITROBENZENE                                                                                                                           | <50                                                                                                                 |
| ISOPHORONE                                                                                                                             | <50                                                                                                                 |
| 2-NITROPHENOL                                                                                                                          | <50                                                                                                                 |
| 2,4-DIMETHYLPHENOL                                                                                                                     | <100                                                                                                                |
| BENZOIC ACID                                                                                                                           | <250<br><50                                                                                                         |
| BIS (2-CHLOROETHOXY) METHANE<br>2,4-DICHLOROPHENOL                                                                                     | <50                                                                                                                 |
| 1,2,4 ~ TRICHLOROBENZENE                                                                                                               | <50                                                                                                                 |
| NAPHTHALENE                                                                                                                            | <50                                                                                                                 |
| 4 - CHLOROANILINE                                                                                                                      | <50                                                                                                                 |
| HEXACHLOROBUTADIENE                                                                                                                    | <50                                                                                                                 |
| 4 - CHLORO - 3 - METHYLPHENOL                                                                                                          | <50                                                                                                                 |
| 2-METHYLNAPHTHALENE                                                                                                                    | <50                                                                                                                 |
| HEXACHLOROCYCLOPENTADIENE                                                                                                              | <250                                                                                                                |
| 2,4,6-TRICHLOROPHENOL                                                                                                                  | <50                                                                                                                 |
| 2,4,5-TRICHLOROPHENOL                                                                                                                  | < 50                                                                                                                |
| 2 - Chloronaphthalene                                                                                                                  | < 50                                                                                                                |
| 2-NITROANILINE                                                                                                                         | <50                                                                                                                 |
| DIMETHYLPHTHALATE                                                                                                                      | <50                                                                                                                 |
| ACENAPHTHYLENE                                                                                                                         | <50                                                                                                                 |
| 3-NITROANILINE                                                                                                                         | <50<br><50                                                                                                          |
| acenaphthene<br>2,4-dinitrophenol                                                                                                      | <100                                                                                                                |
| 4-NITROPHENOL                                                                                                                          | <50                                                                                                                 |
| DIBENZOFURAN                                                                                                                           | <50                                                                                                                 |
| 2.4-DINITROTOLUENE                                                                                                                     | <50                                                                                                                 |
| 2, G-DINITROTOLUENE                                                                                                                    | <50                                                                                                                 |
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### GCMS - RESULTS

ATI I.D. : 71050501

### TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

| COMPOUNDS                                 | RESULTS          |
|-------------------------------------------|------------------|
| DIETHYLPHTHALATE                          | <50              |
| 4 - Chlorophenyl - Phenylether            | <50              |
| FLUORENE                                  | <50              |
| 4-NITROANILINE                            | <50              |
| 4,6-DINITRO-2-METHYLPHENOL                | <50              |
| N-NITROSODIPHENYLAMINE                    | <50              |
| 4 - Bromophenyl - Phenylether             | <50              |
| HEXACHLOROBENZENE                         | <50              |
| PENTACHLOROPHENOL                         | <50              |
| Phenanthrene                              | <50              |
| ANTHRACENE                                | <50              |
| DI-N-BUTYLPHTHALATE                       | <50              |
| FLUORANTHENE                              | <50              |
| BENZIDINE                                 | <250             |
| PYRENE                                    | <50              |
| BUTYLBENZYLPHTHALATE                      | <50              |
| 3,3'-DICHLOROBENZIDINE                    | <50              |
| BENZO (a) ANTHRACENE                      | <50              |
| BIS (2-ETHYLHEXYL) PHTHALATE              | <50              |
| CHRYSENE                                  | < 50             |
| DI -N-OCTYLPHTHALATE                      | <50              |
| BENZO (b) FLUORANTHENE                    | < 50             |
| BENZO (k) FLUORANTHENE                    | <50              |
| BENZO (a) PYRENE                          | < 50             |
| INDENO (1,2,3-cd) PYRENE                  | < 50             |
| DIBENZO (a, h) ANTHRACENE                 | <50              |
| BENZO(g, h, i) PERYLENE                   | <50              |
| 1,2-dph (As azobenzene)                   | <50              |
| SURROGATE PERCENT RECOVERIES              |                  |
| NITROBENZENE-D5 (%)                       | 66               |
| 2-FLUOROBIPHENYL (%)                      | 68               |
| TERPHENYL (%)                             | 73               |
| PHENOL-D6 (4)                             | 59               |
| 2-FLUOROPHENOL (*)                        | 51               |
| 2,4,6-TRIBROMOPHENOL (%)                  | 39 <b>*</b>      |
| * Result out of limits due to sample mat: | rix interference |
|                                           |                  |

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|                                                                                                                      |                  | General Chemistry: Containters<br>X. T. Y. Y. Y. Y. Y. Y. Y. Y. Y. Y. Y. Y. Y.                                                                                                                                                                                                         |                  |    |    |    |  |      |   | RELINQUISHED BY:                                  | Signature: Trme:       | Printed Name: Date:                         |                       | Company:            | RECEIVED BY: (LAB) 2.<br>Signature | Brind Marrie Dato | r Inteu value. Vale | American Enviromental Network (NM), Inc. | DISTRIBUTION: White, Canary - AEN Pink - ORIGINATOR                                  |
|----------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----|----|----|--|------|---|---------------------------------------------------|------------------------|---------------------------------------------|-----------------------|---------------------|------------------------------------|-------------------|---------------------|------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                                                      | ANALYSIS REQUEST | 504 EDB \ DBCP<br>Folynuclear Aromatics (610/8310)<br>Volatile Organics (624/8240) GC/MS<br>Volatile Organics (8260) GC/MS<br>Pesticides/PCB (608/8080)<br>Herbicides (615/8150)<br>Base/Neutral/Acid Compounds GC/MS (625/8270)<br>Merbicides (615/8150)                              |                  |    |    |    |  |      | × | RELINQUISHED BY: 25-7-7 1.                        | Signature Ime          | te: 1 Date: 1 6                             | 11600 -514            | Company CO *        | RECEIVED BY:<br>Signature          | Date:             | Card.               | Company:                                 | DISTRIBUTION                                                                         |
| etwork (NM), Inc. CHAIN OF CUSTODY<br>• Pleasant Hills • Columbia DATE (13/22/15) PAGE 1 OF 1                        |                  | Petroleum Hydrocarbons (418.1) TRPH<br>(MOD.8015) Gas/Purge & Trap<br>(MOD.8015) Gas/Purge & Trap<br>(MS015) Gas/Purge & Trap<br>(MS015) Gas/Purge & Trap<br>BTEX & Chlorinated Aromatics (602/8020)<br>BTEX & Chlorinated Aromatics (602/8020)<br>Chlorinated Hydrocarbons (601/8010) |                  |    |    |    |  |      |   | PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS | (RUSH)                 | CERTIFICATION REQUIRED: 🗌 NM 🛛 SDWA 🗍 OTHER | METHANOL PRESERVATION | COMMENTS: FIXED FEE |                                    |                   |                     |                                          | Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107               |
| American Environmental Network (NM), Inc<br>Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia | PROJECT MANAGER: | ADRESS: 3347 5 64.14<br>ADDRESS: 3347 5 64.14<br>PHONE: 7347 5 7 64.14<br>FAX: 777 7 7 7 7 7 6<br>FAX: 777 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7                                                                                                                                           | 21028 2913 hbd/2 | 30 | ×- | IS |  | <br> |   | PROJECT INFORMATION                               | PROJ. NO.: 5-14, 13:11 | PROJ. NAME: 👾 🎢                             | P.O. NO.:             | SHIPPED VIA:        |                                    | 49 B. 67 68       | RECEIVED INTACT     | BUVERCEACE                               | 4/1/96 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Fre |

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# COMMONLY REQUESTED GENERAL CHEMISTRY

### ALK ABV. Alkalinity (Bicarbonate+Carbonate) ANALYSES

| TOX                  | TOC                         | S-2     | S04     | TSS                    | TDS                           | PH | 0<br>G     | TKN                     | N02     | N02/N03         | N03     | Π        | CN             | E.C.         | COD                    | Q        | BR      | BOD                              | NH4     |  |
|----------------------|-----------------------------|---------|---------|------------------------|-------------------------------|----|------------|-------------------------|---------|-----------------|---------|----------|----------------|--------------|------------------------|----------|---------|----------------------------------|---------|--|
| Total Organic Halide | <b>Total Organic Carbon</b> | Sulfide | Sulfate | Total Suspended Solids | <b>Total Dissolved Solids</b> | PH | Oil-Grease | Total Kjaidahl Nitrogen | Nitrite | Nitrite/Nitrate | Nitrate | Fluoride | Cyanide, Total | Conductivity | Chemical Oxygen Demand | Chloride | Bromide | <b>Biochemical Oxygen Demand</b> | Ammonia |  |

## **PRIORITY POLLUTANT LIST (PP) • RCRA •** METALS COMMONLY ANALYZED

| PP, TAL       | Zn                        | Zinc       |
|---------------|---------------------------|------------|
| TAL           | <                         | Vanadium   |
|               | C                         | Uranium    |
|               | Ξ                         | Titanium   |
|               | Sn                        | Tin        |
| PP, TAL       | T                         | Thallium   |
|               | S                         | Sulfur     |
|               | Sr                        | Strontium  |
| TAL           | Na                        | Sodium     |
| RCRA, PP, TAL | Ag                        | Silver     |
|               | S                         | Silicon    |
| RCRA, PP, TAL | Se                        | Selenium   |
| TAL           | ~                         | Potassium  |
| PP, TAL       | Z                         | Nickel     |
|               | Mo                        | Molybdenum |
| RCRA, PP, TAL | Нg                        | Mercury    |
| TAL           | Mn                        | Manganese  |
| TAL           | Mg                        | Magnesium  |
|               | <b>.</b>                  | Lithium    |
| RCRA, PP, TAL | Pb                        | Lead       |
| TAL           | Fe                        | Iron       |
|               | Au                        | Gold       |
| PP, TAL       | 5                         | Copper     |
| TAL           | C<br>0                    | Cobalt     |
| RCRA, PP, TAL | ç                         | Chromium   |
| TAL           | Ca                        | Calcium    |
| RCRA, PP, TAL | G                         | Cadmium    |
|               | ₿                         | Boron      |
|               | B                         | Bismuth    |
| PP,TAL        | Be                        | Beryllium  |
| RCRA, TAL     | Ba                        | Barium     |
| RCRA, PP, TAL | As                        | Arsenic    |
| PP,TAL        | Зb                        | Antimony   |
| TAL           | AI                        | Aluminum   |
| LIST          | SYMBOL                    | NAME       |
| ST (TAL)      | TARGET ANALYTE LIST (TAL) |            |



### LEE CONSULTING, INC. P.O. Box 8280 Roswell, NM 88202 505-622-7355 505-624-2911 Fax 505-626-4292 Cellular

December 15, 1997

Martyne J. Kieling New Mexico Oil Conservation Division Environmental Bureau 2040 S. Pacheco St. Santa Fe, NM 87505

### RE: Mrs. Corinne B. Grace Salty Bill SWD Facility

### Dear Ms. Kieling,

I am in receipt of your letter dated Dec. 12, 1997 giving approval of the pit closure and soil remediation plan. You approved the plan I submitted with some conditions, of which I have some concern.

In item #1, you reference close proximity of populations and a school training center. The school training center is operated for the training of personnel to dangers more contaminating than the Salty Bill SWD facility, ie, radioactive materials. We cannot agree to conditions which are more restrictive than is allowed by the OCD and ED in other areas. The City of Carlsbad had zoned the area around Salty Bill SWD as industrial when the surface area and permit was issued to Mrs. Grace. The requirements placed on Mrs. Grace should not be allowed to be more restrictive, especially retroactive, as the industrial park area is developed.

Item #5 also causes problems again due to the apparent more stringent levels being applied to Salty Bill SWD because of proximity of populations, and possible future use of the surface. Salty Bill SWD was approved by the City of Carlsbad prior to the lands being annexed into the city limits and prior to becoming an industrial park. Mrs. Grace is prepared to stay within the normal required compliance levels of VOC, BTEX & TPH published to all persons operating an authorized commercial oil field produced water disposal facility in the State of New Mexico but does not agree to any more stringent regulations than the published standards applicable to disposal facilities. Salty Bill SWD does plan to fully stay within compliance levels published by the OCD and ED.

Item #8 refers to samples taken and analyzed by Cardinal Laboratories. These samples were taken using standard QA/QC methods with uncontaminated, glass containers, clean gloves and gathering utensils. The samples were then placed in the sealed containers and hand delivered to Cardinal Laboratories. Salty Bill plans to split samples and their results with the OCD but would also like to be present on any samples the OCD or Environmental Dept takes and have them split as well. As of this date, representatives of Salty Bill SWD were present when samples were taken referred to in Item #8 which show BTEX. These samples were taken from the tanks in which the trucks unload. As any geologist and lab technician dealing with the oil industry knows, BTEX would be present as it is in any oil operation; however, if the OCD and Environmental Dept had taken samples further down the line of tanks and at the tank the water injection pumps pull from, it would have noticed that no unacceptable levels of BTEX, TPH, or VOC were present.

At the present time, several steps have been taken toward cleaning up the SWD facility and improving the general housekeeping around the area. Steps which have been taken or changes made are as follows:

- 1. The facility has been under supervision 24 hrs per day as requested. This will prevent over filling tanks, leaks, etc.
- 2. The fiberglass tanks have been dismantled and removed along with all associated piping.
- 3. The heater treater separator which was never used was totally removed from the facility.
- 4. The roads have been improved and cleaned up to prevent puddling of fluids from heavy rains.
- 5. The sump by the pumps has been emptied and is no longer is use.
- 6. The pit was emptied and will not be used.
- 7. New valves installed and/or repaired to prevent leakage at load lines.

Salty Bill SWD is prepared to start remediation and pit closure of the sump and pit as soon as the concerns addressed above have come to an amicable solution for both parties concerned.

Sincerely.

H. E. Gene LEE

cc: NMOCD-Artesia

;

CORINNE B. GRACE 3722 National Parks Hwy. P.O. Box 1418 Carlsbad, N.M. 88221-1418 (505) 887-5581 FAX: (505) 885-8497 \* \* \* \* \* \* DATE: 17/31/97 PLEASE DELIVER THE FOLLOWING PAGE(S) TO: NAME: Martyne J. Hieling FIRM: New Mexico OCD, Environmen

talBure 505 - 827 - 8177 FAX NO: FROM: TOTAL NUMBER OF PAGES INCLUDING COVER PAGE: 3 BRIEF DESCRIPTION OF TRANSMITTAL: ene fel e

If you DO NOT receive all the pages indicated above, please call us back as soon as possible.

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H. E. Gene LEE

cc: NMOCD-Artesia

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March 19th Murch 5th



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

December 12, 1997

### CERTIFIED MAIL RETURN RECEIPT NO. P.326-936-373

Ms. Corinne B. Grace P.O. Box 1418 3722 National Parks Hwy. Carlsbad, N.M. 88220

### Re: Salty Bills Water Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

### Dear Ms. Grace:

The New Mexico Oil Conservation Division (OCD) has reviewed Salty Bill Salt Water Disposal Facility's (Salty Bill) November 25, 1997 Inspection Report Response and Pit Closure Plan. This document was submitted on behalf of Salty Bill by their consultant Lee Consulting, Inc. This document contains Salty Bill's plan for facility soil remediation in and around the tanks and closure of pits and sumps.

The above referenced soil remediation and pit closure plan is approved with the following conditions:

- 1. Due to the proximity of populations including a school training center, on site landfarming of contaminated soils will not be approved for Salty Bill. All waste removed from the site will be recycled if possible and contaminated soils and other non-recyclable wastes will be disposed of at an OCD approved facility.
- 2. Prior to transporting the waste for recycling and disposal Salty Bill must obtain written approval from the OCD Santa Fe Office.
- 3 The OCD Santa Fe and Artesia District offices shall be notified 72 hours prior to each phase of the remediation including excavation and sampling of soils located at the pits, tanks and sumps to allow an OCD representative the opportunity witness excavations and to split samples.

### Ms. Corinne B. Grace December 12, 1997 Page 2

All soil samples for verification of completion of remedial activities including the vertical extent of contamination and completion of soil remedial actions will be sampled and analyzed for WQCC metals including mercury and selenium; chloride, volatile organic compounds (VOC) by EPA method 8240, benzene, toluene, ethylbenzene, xylene (BTEX) and total petroleum hydrocarbons (TPH) in accordance with the OCD's "Surface Impoundment Closure Guidelines". This is to include sampling at the pit areas, around the tank systems, and beneath all sumps, barrels or tanks burried below grade.

Due to the proximity of populations including a school training center and possible future use by the surface owner (City of Carlsbad), the required soil cleanup levels shall be benzene at 10 ppm, BTEX at 50 ppm and TPH at 100 ppm. In addition, remediation cleanup levels for metals and other site contaminants will be the New Mexico State ground-water standards and/or site background levels. These remediation levels are for the protection of ground water. Additional remediation requirements may be imposed if remaining contaminants have the potential to pose a threat to public health.

The OCD Santa Fe Office's Environmental Bureau Chief and the OCD Artesia District office will be notified within 24 hours of the discovery of ground water contamination related to the soil remediation and pit closure.

Upon completion of all closure activities, Salty Bill will submit to the OCD for approval a completed OCD "Pit Remediation and Closure Report" form which will contain the final results of all pit closure and soil remediation activities including all laboratory or field analytical data sheets for all soil and water quality analysis and copies of all associated quality assurance/quality control (QA/QC) data.

8. Salty Bill shall submit the Cardinal Laboratories test results referenced on page 3, paragraph 4 of the response including how the samples were taken and all QA/QC that was followed. The OCD and New Mexico Environment Department have preliminary results that show BTEX in the tanks and pit.

9. All documents submitted for approval will be submitted to the OCD Santa Fe Offices with copies provided to the OCD Artesia Office.

 Salty Bill must submit an itemized list of work that has been started, is in progress, or has been completed at the facility prior to receiving this remediation and pit closure approval. This itemized list should be submitted to the OCD Santa Fe and Artesia District offices no later than December 31, 1997.

To simplify the approval process for both Salty Bill and OCD, the OCD requests that a final pit

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Ms. Corinne B. Grace December 12, 1997 Page 3

closure report be submitted only upon completion of all closure activities.

Please be advised that OCD approval does not relieve Salty Bill of liability should closure activities determine that contamination exists which is beyond the scope of the work plan or if the closure activities fail to adequately investigate or remediate contamination related to the site activities. In addition, OCD approval does not relieve Salty Bill of responsibility for compliance with any other federal, state, or local laws or regulations.

If you require any further information, please contact me at (505) 827-7153.

Sincerely,

Martyn J Kuly

Martyne J. Kieling Environmental Geologist

xc: Artesia OCD Office
 Mark Weidler, NMED, Secretary
 John Tymkowych, HRMB
 Marcy Leavitt, Chief, GWQB
 Gene Lee, Lee Consulting, Inc.
 John Waters, Carlsbad Environmental Services
 Jim Trustly, USEPA, Region 6

### LEE CONSULTING, INC. P.O. Box 8280 Roswell, NM 88202 505-622-7355 505-624-2911 Fax 505-626-4292 Cellular

NOV 26 1997

Martyne J. Kieling New Mexico Oil Conservation Division Environmental Bureau 2040 S. Pacheco St. Santa Fe, NM 87505

### RE: Mrs. Corinne B. Grace Salty Bill SWD Facility

### Dear Ms. Kieling,

I have been retained by Mrs. Corinne B. Grace and Grace Oil Company to review their SWD facility and your inspection report of the same, dated October 28, 1997. Upon review of your deficiency report, I went to the above location and personally examined the facility and its equipment, tanks, etc. My review and consultation with Mrs. Grace has led to the following proposal to remedy the deficiencies pointed out in your report. Along with the plan to correct the deficiencies, the appropriate form to close the two lined pits at the facility will be submitted for OCD approval.

Pertaining to the deficiencies listed in Attachment 1, Salty Bill proposes the following plan to correct them as outlined:

### 1. Drum Storage:

There are no drums at this facility.

### 2. Process Area:

The process area and storage areas will be cleaned up, contaminated soils excavated and removed, and impermeable plastic lining applied to the ground inside the bermed area around the tanks. Any and all valves that are in need of repair will be replaced and/or repaired to prevent leaking of fluids. The facility will be manned on a routine basis 24 hrs per day to prevent trucks from overtopping tanks and spilling fluids in the loading and unloading areas.

### 3. Above Ground Tanks:

Fiberglass tanks not in use will be dismantled and properly disposed. The area around the tanks will have a berm to contain the entire

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volume of all the storage tanks. The area within the berm will have plastic lining installed and include the berm wall. Approximate size of the berm area will be 180' X 60' X 2.5'. This will yield a capacity of 27,000 cu ft or 4821 barrels of fluid.

### 4. Open Top Tanks and Pits:

The netted pits will be closed and no longer utilized. Remediation of the pit areas will be addressed in the pit closure plan.

### 5. Above Ground Saddle Tanks:

Saddle tank will be dismantled and no longer used. Saddle tank will be properly removed and disposed.

### 6. Tank Labeling:

Labels will be prepared and placed on each tank at the facility stating the contents thereof, hazards, and emergency information.

### 7. Below Grade Tanks/Sumps:

All sumps, barrels or tanks buried below grade will be removed. No sumps or barrels below grade will be utilized at the facility.

### 8. Ponds and Pits:

All pits will be closed and will no longer be utilized.

### 9. Housekeeping:

Tank system shall have equalizing lines and a pump connected to an emergency tank in the event capacity of the storage tanks exceeds 85% of rated capacity. The facility will be manned on a routine basis 24 hrs per day to prevent overtopping by trucks unloading fluids. The pit will be closed and no longer utilized. The fiberglass lined pits will have wooden sides and soils removed. Concrete pad below pumps will have cement curbing integrated into the edges to form an impermeable containment with pump to remove any accumulations of fluid. This fluid will be pumped back into the storage system. Tanks will have all sides cleaned and soils removed around the base of the tanks. All valves will be repaired or replaced to prevent leaking. Berms will be placed around storage tanks and have sufficient capacity to hold tank volume. No locks will be installed since the facility will be manned 24 hrs/day.

### 10. Spill Reporting:

All spills/releases will be reported to the OCD.

11. <u>Trash & Potentially Hazardous Materials:</u> All trash will be properly disposed of.

### 12. Berming:

A berm shall be constructed around the entire facility to prevent rain/flood water from outside sources to enter the perimeter of the facility. This will also prevent any storm water from leaving the facility. An elevated area at the entrance will allow trucks to enter the facility but will be constructed to sufficient height to maintain the integrity of the perimeter berm.

### 13. Security:

No fences or locks will be placed around the facility or on valves since the site will be manned at all times. This will not only prevent overtopping or disposal of fluids when the site is shut down, but prevent unloading of hazardous materials or materials of unknown nature from entering the site.

### 14. Signs:

New signs are being prepared and will be installed at the facility.

### 15. General Facility Location Information:

The Salty Bill Water Disposal Facility is located within the City Limits of Carlsbad, NM in the center of what was once the Carlsbad Army Air Field. There are no surface waters within one mile of the facility and has no potable water wells within the immediate area.

The above are responses for correcting the deficiencies contained in your report. These measures will be implemented as soon as you review them. I expect all measures to be able to be completed within 30 days from your approval.

I have also reviewed your guidelines for surface impoundment closure. Based on the current ranking system consisting of Depth to Ground Water, Wellhead Protection Area, and Distance to Nearest Surface Water Body, it seems to me that this site would be very low risk based on the assessment for severity of contamination and potential environmental & public health threats.

This ranking criteria used as a basis for soil and water remediation levels gives a ranking score of 0. Currently, tests have been run at Cardinal Laboratories and show no signs of Benzene, BTEX or TPH.

Closing the current pits at the Salty Bill facility will consist of removing all liquids from the lining. All nets and boards around the pits will be removed. The liners will be rolled up and removed to expose the soils below the pit. An examination will be done and soil samples sent to approved labs for further testing. All soils will be removed by excavation that contain any staining. The pit area at the South edge of the facility is approximately 125' X 45' X 3'. This area will be excavated to 135' X 55' X 8' to remove any possibly contaminated soils. At this time, further soil sampling will occur to verify no

contaminants exist. When no contaminants exist, new clean, uncontaminated soil will be used to fill the old pit areas. All work performed will be done under inspection and with the approval of the OCD. Lab tests on soils will be performed by an approved lab. Any contaminated soils will be hauled to an approved disposal site or farmed within the perimeter of the Salty Bill facility until tests prove the soils to be free of contaminants.

If these recommendations meet with your approval, they may be implemented immediately with completion of all necessary work to rectify the deficiencies to occur within 30 days from commencement. The pit closure will be done within the same time frame since the closure will help correct many of the deficiencies within your report.

Please contact me at the above address if I may be of any assistance or if you have any questions. I will be awaiting your approval to start correcting these deficiencies at Salty Bill Water Disposal. The facility has started being manned regularly 24 hrs/day as we speak to prevent anything from happening to worsen any of the deficiencies already outlined. Thank you for your assistance in this matter.

Sincerely. H. E. Géne LEE

### Send Confirmation

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### Successful

Pages scanned Pages confirmed

| Job    | Sent                                                                   | To Rem      | o Remote Station [               |    |                                       | Mode | Pages | Results                                                  |
|--------|------------------------------------------------------------------------|-------------|----------------------------------|----|---------------------------------------|------|-------|----------------------------------------------------------|
| 102    | Nov-25 09:42am                                                         | 505827      | 8177                             |    | 03:15                                 |      | 4/4   | OK,144                                                   |
| A<br>C | Phone charge code<br>Auto-distribute<br>Cover page<br>Error Correction | F<br>G<br>M | Forward<br>Group dial<br>Mailbox | PW | Poll<br>to/from<br>Passwor<br>Receive |      |       | 4800 bps chosen<br>9600 bps chosen<br>4 14400 bps chosen |

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Above Ground Tanks: Fiberglass tanks not in use will be dismantled and properly disposed The area around the tanks will have a berm to contain the entire

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### **Fax Transmission**

Date: Tuesday, November 25, 1997

**Time:** 9:28:00 AM



<u>|</u>

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- To: Martyne J. Kieling NMOCD--Environmental Bureau
- phone: 1-505-827-7153 fax: 1-505-827-8177
- From: Gene Lee Lee Consulting, Inc.
- phone: 1-505-622-7355 fax: 1-505-624-2911
  - Re: Ms. Kieling,

Here is a fax copy of my report. A hard copy is being sent to you by Fed. Ex. today and should be in your office tomorrow AM. Thanks.

Gene Lee

LEE CONSULTING, INC. P.O. Box 8280 Roswell, NM 88202 505-622-7355 505-624-2911 Fax 505-626-4292 Cellular

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Fiberglass tanks not in use will be dismantled and properly disposed. The area around the tanks will have a berm to contain the entire

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volume of all the storage tanks. The area within the berm will have plastic lining installed and include the berm wall. Approximate size of the berm area will be 180' X 60' X 2.5'. This will yield a capacity of 27,000 cu ft or 4821 barrels of fluid.

### 4. Open Top Tanks and Pits:

The netted pits will be closed and no longer utilized. Remediation of the pit areas will be addressed in the pit closure plan.

### 5. Above Ground Saddle Tanks:

Saddle tank will be dismantled and no longer used. Saddle tank will be properly removed and disposed.

### 6. Tank Labeling:

Labels will be prepared and placed on each tank at the facility stating the contents thereof, hazards, and emergency information.

### 7. Below Grade Tanks/Sumps:

All sumps, barrels or tanks buried below grade will be removed. No sumps or barrels below grade will be utilized at the facility.

### 8. Ponds and Pits:

All pits will be closed and will no longer be utilized.

### 9. Housekeeping:

Tank system shall have equalizing lines and a pump connected to an emergency tank in the event capacity of the storage tanks exceeds 85% of rated capacity. The facility will be manned on a routine basis 24 hrs per day to prevent overtopping by trucks unloading fluids. The pit will be closed and no longer utilized. The fiberglass lined pits will have wooden sides and soils removed. Concrete pad below pumps will have cement curbing integrated into the edges to form an impermeable containment with pump to remove any accumulations of fluid. This fluid will be pumped back into the storage system. Tanks will have all sides cleaned and soils removed around the base of the tanks. All valves will be repaired or replaced to prevent leaking. Berms will be placed around storage tanks and have sufficient capacity to hold tank volume. No locks will be installed since the facility will be manned 24 hrs/day.

### 10. Spill Reporting:

All spills/releases will be reported to the OCD.

### 11. Trash & Potentially Hazardous Materials:

All trash will be properly disposed of.

### 12. Berming:

A berm shall be constructed around the entire facility to prevent rain/flood water from outside sources to enter the perimeter of the facility. This will also prevent any storm water from leaving the facility. An elevated area at the entrance will allow trucks to enter the facility but will be constructed to sufficient height to maintain the integrity of the perimeter berm.

### 13. Security:

No fences or locks will be placed around the facility or on valves since the site will be manned at all times. This will not only prevent overtopping or disposal of fluids when the site is shut down, but prevent unloading of hazardous materials or materials of unknown nature from entering the site.

### 14. Signs:

New signs are being prepared and will be installed at the facility.

### 15. General Facility Location Information:

The Salty Bill Water Disposal Facility is located within the City Limits of Carlsbad, NM in the center of what was once the Carlsbad Army Air Field. There are no surface waters within one mile of the facility and has no potable water wells within the immediate area.

The above are responses for correcting the deficiencies contained in your report. These measures will be implemented as soon as you review them. I expect all measures to be able to be completed within 30 days from your approval.

I have also reviewed your guidelines for surface impoundment closure. Based on the current ranking system consisting of Depth to Ground Water, Wellhead Protection Area, and Distance to Nearest Surface Water Body, it seems to me that this site would be very low risk based on the assessment for severity of contamination and potential environmental & public health threats.

This ranking criteria used as a basis for soil and water remediation levels gives a ranking score of 0. Currently, tests have been run at Cardinal Laboratories and show no signs of Benzene, BTEX or TPH.

Closing the current pits at the Salty Bill facility will consist of removing all liquids from the lining. All nets and boards around the pits will be removed. The liners will be rolled up and removed to expose the soils below the pit. An examination will be done and soil samples sent to approved labs for further testing. All soils will be removed by excavation that contain any staining. The pit area at the South edge of the facility is approximately 125' X 45' X 3'. This area will be excavated to 135' X 55' X 8' to remove any possibly contaminated soils. At this time, further soil sampling will occur to verify no

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contaminants exist. When no contaminants exist, new clean, uncontaminated soil will be used to fill the old pit areas. All work performed will be done under inspection and with the approval of the OCD. Lab tests on soils will be performed by an approved lab. Any contaminated soils will be hauled to an approved disposal site or farmed within the perimeter of the Salty Bill facility until tests prove the soils to be free of contaminants.

If these recommendations meet with your approval, they may be implemented immediately with completion of all necessary work to rectify the deficiencies to occur within 30 days from commencement. The pit closure will be done within the same time frame since the closure will help correct many of the deficiencies within your report.

Please contact me at the above address if I may be of any assistance or if you have any questions. I will be awaiting your approval to start correcting these deficiencies at Salty Bill Water Disposal. The facility has started being manned regularly 24 hrs/day as we speak to prevent anything from happening to worsen any of the deficiencies already outlined. Thank you for your assistance in this matter.

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Environmental Bureau Oil Conservation Division



Scientific Laboratory Division

700 Camino de Salud, NE

P.O. Box 4700

Albuquerque, NM 87196-4700

FAX #(505) 841-2543

FAX TRANSMISSION SHEET

| (827-1544) Fax # |
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|                  |
| (841-2571)       |
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You should receive 8 pages, including this cover sheet. If you do not receive all of these pages, please call (505) 841-2500 and ask for

Additional Comments:

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| STATE OF NEW I              | MEXICO                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DEP                                                                                                              | PARTME     | INT OF HE,                      | ALT  |
| ×                           | SCIENTIFIC LABORAT                             | ORY DI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VISION                                                                                                           | •          |                                 |      |
|                             | P.O. Box 4700                                  | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 00 Camino de Salu                                                                                                | d, NE      |                                 |      |
| A                           | ibuquerque, NM 87196-4700                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | [505] 841-2500                                                                                                   |            |                                 |      |
|                             | ORGANIC CHEMISTRY SECTION                      | N [505] 841-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2570                                                                                                             |            |                                 |      |
|                             | REPORT TO CLIENT                               | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                  |            |                                 |      |
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| ED Fleld Offic              | sa Santa Eq                                    | ╢┺━                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | REQUEST ID No .:                                                                                                 | 19         | 7305                            |      |
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| 525 Camino d                | ie los Marquez, #5                             | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RECEIVED                                                                                                         | AT SLD:    | 11/10/97                        |      |
| Santa Fe, NN                | 1 87502                                        | SLI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | D ÇOPY                                                                                                           | USEA       | 55840                           |      |
|                             |                                                | <u>-1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                  |            |                                 |      |
| SAMPLE CO                   | LLECTION: DATE: 11/5/97                        | TIME: 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 46 BY:                                                                                                           | San        |                                 |      |
|                             | AMPLING LOCATION: 4A                           | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                  |            |                                 |      |
|                             | SAMPLE MATRIX: water                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REPORTING UNITS:                                                                                                 | μg/L       |                                 |      |
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| EDA 1                       | TETHOD 8260 MASS SPECTROMETER                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | S BY PURGE AND                                                                                                   | TRAP       |                                 |      |
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| DATE AN                     | IALYZED: 11/18/97 13 Days: Within EPA Analysis | s Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SLD BA                                                                                                           | TCH No.:   | 433                             |      |
|                             | E VOL (ml): 0.1                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DILUTION F                                                                                                       | ACTOR:     | 50.00                           | )    |
| ••••••                      |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REQUES                                                                                                           | TID No.:   | 19730                           | 5    |
|                             | RVATION: Sample Temperature when received: r/a |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0H = 5                                                                                                           |            |                                 |      |
|                             |                                                | nedices or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | and the second second second second second second second second second second second second second second second | QUAL       | SOL                             |      |
| CAS#                        | ANALYTE NAME                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CONC. (ug/L)                                                                                                     | UUAL.      | 50.0                            |      |
| 71-43-2                     | Benzene                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 166.0                                                                                                            | u          | 50.0                            |      |
| <u>108-86-1</u><br>74-97-5  | Bromobenzenc<br>Bromochloromethane             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | U          | 50.0                            |      |
| 75-27-4                     | Bromodichloromethane*                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | U          | 50.0                            |      |
| 75-25-2                     | Bromoform                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | U          | 50.0                            |      |
| 74-83-9                     | Bromomethane                                   | and 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 sec |                                                                                                                  | U          | 50.0                            |      |
| 78-93-3                     | 2-Butanone (MEK)                               | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                  | U          | 500.0                           |      |
| 104-51-8                    | n-Butylbenzene                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | บ          | 50.0                            |      |
| 135-98-8                    | sec-Butylbenzene                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | U.         | 50.0                            |      |
| 98-06-6                     | tert-Butylbenzene                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u>u</u>   | 50.0                            |      |
| 1634-04-4                   | tert-Butyl methyl ether (MTBE)                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u>u</u>   | 500.0                           |      |
| 56-23-5                     | Carbon tetrachloride                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u> </u>   | 50.0                            |      |
| 108-90-7                    | Chlorobenzene (monochlorobenzene)              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u> </u>   | 50.0                            |      |
| 75-00-3                     | Chloroethane                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u>u</u>   | 50.0<br>50.0                    |      |
| 67-66-3                     | Chloroform*                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  |            | 50.0                            |      |
| <u>74-87-3</u><br>95-49-8   | Chloromethane<br>2-Chlorotoluene               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  |            | 50.0                            |      |
| 106-43-4                    | 4-Chlorotoluene                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  |            | 50.0                            |      |
| 96-12-8                     | 1,2-Dibromo-3-chloropropane (DBCP)             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | t u        | 50.0                            |      |
| 124-48-1                    | Dibromochloromethane*                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | u          | 50.0                            |      |
| 106-93-4                    | 1.2-Dibromoethane (Ethylene dibromide)         | (EDB))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                  | U          | 50.0                            |      |
| 74-95-3                     | Dibromomethane                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | U          | 50.0                            |      |
| 95-50-1                     | 1,2-Dichlorobenzene (o-Dichlorobenzene         | e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                  | U          | 50.0                            |      |
| 541-73-1                    | 1,3-Dichlorobenzene (m-Dichlorobenzen          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | U          | 50,0                            |      |
| 106-46-7                    | 1,4-Dichlorobenzene (p-Dichlorobenzene         | 9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                  | <u>  u</u> | 50.0                            |      |
| 75-71-8                     | Dichlorodifluoromethane                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u> </u>   | 50.0                            |      |
| 75-34-3                     | 1,1-Dichloroethane                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | U          | 50.0                            |      |
| 107-06-2                    | 1,2-Dichloroethane                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u> </u>   | 50.0                            |      |
| 75-35-4                     | 1,1-Dichloroethene                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u> </u>   | 50.0                            |      |
| 156-59-2                    | cis-1,2-Dichloroethene                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  |            | 50.0                            |      |
| 156-60-5                    | trans-1,2-Dichloroethene                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  |            | 50.0                            |      |
| 78-87-5                     | 1,2-Dichloropropane                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u> </u>   | 50.0                            | ł    |
| <u>142-28-9</u><br>594-20-7 | 1,3-Dichloropropane                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u> </u>   | 50.0                            | 1    |
| 594-20-7                    | 1,1-Dichloropropene                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | 1 0        | 50.0                            | 1    |
| 1006-10-15                  | cis-1,3-Dichloropropene                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | 1 U        | 50.0                            |      |
| 1006-10-26                  | trans-1,3-Dichloropropene                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | <u> </u>   | 50.0                            |      |
| 100-41-4                    | Ethylbenzene                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 93.5                                                                                                             | 1          | 50.0                            |      |
| 87-68-3                     | Hexachlorobutadiene                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | U          | 50.0                            |      |

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| 99-87-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4-isopropyitoluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 52.0                                                                                                                                       |                                         | 50.0                               |  |
| 75-09-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Methylene chloride (Dichloromethane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                            | <u> </u>                                | 100.0                              |  |
| 91-20-3<br>103-65-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Naphthalene<br>Propylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 64.0                                                                                                                                       | U                                       | 50.0                               |  |
| 100-42-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Styrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                            | <u>u</u>                                | 50.0                               |  |
| 630-20-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,1,1,2-Tetrachioroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                            |                                         | 50.0                               |  |
| 79-34-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.1.2.2-Tetrachloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                            | U I                                     | 50.0                               |  |
| 127-18-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Tetrachloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                            | U                                       | 50.0                               |  |
| 109-99-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Tetrahydrofuran (THF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                            | U                                       | 500_0                              |  |
| 108-88-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 745.0                                                                                                                                      |                                         | 50.0                               |  |
| 87-61-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,2,3-Trichlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                            | U                                       | 50.0                               |  |
| 120-82-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,2,4-Trichlarobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                            | U                                       | 50.0                               |  |
| 71-55-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,1,1-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                            | U                                       | 50.0                               |  |
| 79-00-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,1,2-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                            | <u>u</u>                                | 50.0                               |  |
| 79-01-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Trichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                            | U                                       | 50.0                               |  |
| 75-69-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Trichlorofluoromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                            | U                                       | 50.0                               |  |
| 96-18-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,2,3-Trichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                            | <u> </u>                                | 50.0                               |  |
| 95-63-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1,2,4-Trimethylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 198.0                                                                                                                                      |                                         | 50.0                               |  |
| 108-67-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1,3,5-Trimethylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 146.0                                                                                                                                      | U                                       | <u>50.0</u><br>50.0                |  |
| <u>75-01-4</u><br>95-47-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Vinyl chloride<br>o-Xylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                            |                                         | 50.0                               |  |
| 95-47-6<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | p- & m-Xylene"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 211.0                                                                                                                                      | ┟╌╌╍╼┼                                  | 50.0                               |  |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Total Xylenes"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 540.0                                                                                                                                      | <del> </del>                            | 50.0                               |  |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | *Total Trihalomethanes*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0                                                                                                                                        | U                                       | 50,0                               |  |
| CAS #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ollowing Compound(s) Were Tentatively Identified by GC/MS<br>Tentatively Identified Compound Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | % Match                                                                                                                                    | R.T.<br>42.70                           | Approx Cor                         |  |
| 112-40-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Dodecane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 98.3%                                                                                                                                      |                                         | 500 µg                             |  |
| 629-62-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pentadecane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 97.4%                                                                                                                                      | 47.20<br>37.95                          | 500 µg                             |  |
| <u>1120-21-4</u><br>2809-65-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1-Chloro-4-(1-propynyi)-benzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 74.4%                                                                                                                                      | 37.50                                   | 500 µg                             |  |
| 62108-23-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,5,6-Trimethyl-decane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$4.9%                                                                                                                                     | 32.85                                   | 500 µg                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - CHARLENY                                                                                                                                 |                                         |                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LABORATORY BATCH QUALITY CONTRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                            |                                         | Y DCOOVER                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UNCENTRA                                                                                                                                   | CONCENTRATION % RECOV                   |                                    |  |
| SURROGATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SURROGATE COMPOUNDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 514                                                                                                                                        | 5 (                                     | 102 9%                             |  |
| SURROGATE<br>RECOVERIES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Toluene - D8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 514.                                                                                                                                       |                                         | <u>    102.9%</u><br>99.7%         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Toluene - D8<br>4 - Bromofluorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 498.                                                                                                                                       | 5                                       | 99.7%                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Toluene - D8<br>4 - Bromofluorobenzene<br>1,2 - Dichlorobenzene - D4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 498.<br>453.                                                                                                                               | 5<br>5                                  | 99.7%<br>90.7%                     |  |
| RECOVERIES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 498.<br>453.                                                                                                                               | 5<br>5                                  | 99.7%<br>90.7%                     |  |
| RECOVERIES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Toluene - D8<br>4 - Bromofluorobenzene<br>1,2 - Dichlorobenzene - D4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 498.<br>453.                                                                                                                               | 5<br>5                                  | 99.7%<br>90.7%                     |  |
| RECOVERIES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik exception of the compounds listed below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 498.<br>453.                                                                                                                               | 5<br>5<br>20% wit                       | 99.7%<br>90.7%                     |  |
| RECOVERIES:<br>ABORATORY<br>FORTIFIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik exception of the compounds listed below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 498.<br>453.<br>9 were from 80% to 1                                                                                                       | 5<br>5<br>20% wit                       | 99.7%<br>90.7%                     |  |
| RECOVERIES:<br>ABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 498.<br>453.<br>e were from 80% to 1<br>(ATION (ug/L) % RECOV                                                                              | 5<br>5<br>20% wit                       | 99.7%<br>90.7%<br>h the            |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 498.<br>453.<br>9 were from 80% to 1<br>(ATION (ug/L) % RECOV                                                                              | 5<br>5<br>20% wit                       | 99.7%<br>90.7%<br>h the            |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the same<br>with the exception of the compound(s) listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 498.<br>453.<br>9 were from 80% to 1<br>(ATION (ug/L) % RECOV                                                                              | 5<br>5<br>20% wit                       | 99.7%<br>90.7%<br>h the            |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 498.<br>453.<br>9 were from 80% to 1<br>(ATION (ug/L) % RECOV                                                                              | 5<br>5<br>20% with<br>rERY<br>aborator  | 99.7%<br>90.7%<br>h the            |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the same<br>with the exception of the compound(s) listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 498.<br>453.<br>a ware from 80% to 1<br>IATION (ug/L) % RECOV<br>Apple detection limit in 1<br>I below:                                    | 5<br>5<br>20% with<br>rERY<br>aborator  | 99.7%<br>90.7%<br>h the            |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANK:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 498.<br>453.<br>(a ware from 80% to 1<br>(ATION (ugA.) % RECOV<br>(ugA.) % RECOV<br>(ugA.)<br>(below:<br>CONCENTRATION (ugA.)              | 5<br>5<br>20% with<br>(EBY)<br>aborator | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>ABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 498.<br>453.<br>were from 80% to 1<br>(ATION (ug/L) % RECOV<br>apple detection limit in 1<br>below:<br>CONCENTRATION (ug/L)                | 5<br>5<br>20% with<br>(EBY)<br>aborator | 99.7%<br>90.7%<br>h the            |  |
| RECOVERIES:<br>ABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         B. L Keller       QC APPRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 498.<br>453.<br>(a ware from 80% to 1<br>(ATION (ugA.) % RECOV<br>(ugA.) % RECOV<br>(ugA.)<br>(below:<br>CONCENTRATION (ugA.)              | 5<br>5<br>20% with<br>(EBY)<br>aborator | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         B. L. Keller       QC APPRO<br>ONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 498.<br>453.<br>(a ware from 80% to 1<br>(ATION (ugA.) % RECOV<br>(ugA.) % RECOV<br>(ugA.)<br>(below:<br>CONCENTRATION (ugA.)              | 5<br>5<br>20% with<br>(EBY)<br>aborator | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANK:<br>ANALYST<br>DEFINITIN<br>Concentratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         B. L Keller       QC APPRO         DNS<br>n Exceeds EPA's allowable Maximum Contamination Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 498.<br>453.<br>g ware from 80% to 1<br>(ATION (ugA.) % RECOV<br>nple detection limit in l<br>below:<br>CONCENTRATION (ugA.)<br>VED BY:Ti  | 5<br>5<br>20% with<br>(EBY)<br>aborator | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>BLANKS<br>ANALYST<br>DEFINITIN<br>Concentratio<br>CAS# Chemical Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> <u>CONCENTE</u><br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         B. L. Keller       QC APPRO         DNS       n Exceeds EPA's allowable Maximum Contamination Level<br>stract Services Number - Unique number to help idontify analytes for the same services number - Unique number to help idontify analytes for the same services number - Unique number to help idontify analytes for the same services number - Unique number to help idontify analytes for the same services number - Unique number to help idontify analytes for the same services number - Unique number to help idontify analytes for the same services number - Unique number to help idontify analytes for the same services number - Unique number to help idontify analytes for the same services number - Unique number to help idontify analytes for the same services number - Unique number to help idontify analytes for the same services number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Unique number - Uni | 498.<br>453.<br>g ware from 80% to 1<br>(ATION (ugA.) % RECOV<br>nple detection limit in l<br>below:<br>CONCENTRATION (ugA.)<br>VED BY:Ti  | 5<br>5<br>20% with<br>(EBY)<br>aborator | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>BLANKS<br>ANALYST<br>DEFINITIN<br>Concentratio<br>CAS# Chemical Ab<br>CONC. Concentratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> <u>CONCENTE</u><br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         B. L. Keller       QC APPRO         DNS       n Exceeds EPA's allowable Maximum Contamination Level<br>stract Services Number - Unique number to help identify analytes for<br>n (ug/L) of analyte actually detected in the sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 498.<br>453.<br>g ware from 80% to 1<br>(ATION (ugA.) % RECOV<br>nple detection limit in l<br>below:<br>CONCENTRATION (ugA.)<br>VED BY:Ti  | 5<br>5<br>20% with<br>(EBY)<br>aborator | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>BLANKS<br>ANALYST<br>DEFINITIN<br>Concentratio<br>CAS# Chemical Ab<br>CONC. Concentratio<br>QUAL Qualifier of a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         B. L. Keller       QC APPRO         DNS       n Exceeds EPA's allowable Maximum Contamination Level<br>stract Services Number - Unique number to help identify analytes for<br>n (ug/L) of analyte actually detected in the sample<br>nallytical results as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 498.<br>453.<br>g ware from 80% to 1<br>(ATION (ugA.) % RECOV<br>nple detection limit in l<br>below:<br>CONCENTRATION (ugA.)<br>VED BY:Ti  | 5<br>5<br>20% with<br>(EBY)<br>aborator | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>BLANKS<br>ANALYST<br>DEFINITIN<br>Concentratio<br>CAS# Chemical Ab<br>CONC. Concentratio<br>QUAL Qualifier of a<br>B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         B. L. Keller       QC APPRO         DNS       analyte actually detected in the sample<br>nebytical results as follows:<br>Analyte was detected in laboratory blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 498.<br>453.<br>Re were from 80% to 1<br>IATION (ug/L) % RECOV<br>Type detection limit in 1<br>I below:<br>CONCENTRATION (ug/L)<br>VED BY: | 5<br>5<br>20% with<br>(EBY)<br>aborator | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>BLANKS<br>BLANKS<br>DEFINITIN<br>Concentratio<br>CAS# Chemical Ab<br>CONC. Concentratio<br>CONC. CONCENTRATION<br>CONC. TRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATION<br>CONCENTRATI | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         B. L. Keller       QC APPRO         DNS       n Exceeds EPA's allowable Maximum Contamination Level<br>stract Services Number - Unique number to help identify analytes for<br>n (ug/L) of analyte actually detected in the sample<br>nallytical results as follows:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 498.<br>453.<br>g ware from 80% to 1<br>IATION (ug/L) % RECOV<br>TIPLE detection limit in 1<br>below:<br>CONCENTRATION (ug/L)<br>VED BY:   | 5<br>5<br>20% with<br>/ERY<br>aborator  | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>BLANKS<br>BLANKS<br>DEFINITIN<br>CONC. Concentratio<br>CAS# Chemical Ab<br>CONC. Concentratio<br>CONC. Concentratio<br>GUAL Qualifier of a<br>B<br>E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         B. L. Keller       QC APPRO         DNS       Exceeds EPA's allowable Maximum Contamination Level<br>stract Services Number - Unique number to help identify analytes for<br>n (ug/L) of analyte actually detected in the sample<br>nalytical results as follows:<br>Analyte was detected in laboratory blank<br>Analyte was detected at a level above the concentration of the call                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 498.<br>453.<br>g ware from 80% to 1<br>IATION (ug/L) % RECOV<br>TIPLE detection limit in 1<br>below:<br>CONCENTRATION (ug/L)<br>VED BY:   | 5<br>5<br>20% with<br>/ERY<br>aborator  | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>BLANKS<br>ANALYST<br>DEFINITIN<br>Concentration<br>CAS# Chemical Ab<br>CONC. Concentration<br>QUAL Qualifier of a<br>E<br>J<br>U<br>SDL Sample Dete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         .       B. L. Keller         QC APPRO         DNS<br>n Exceeds EPA's allowable Maximum Contamination Level<br>stract Services Number - Unique number to help idontify analytes for<br>n (ugL) of analyte actually detected in the sample<br>nalytical results as follows:<br>Analyte was detected at a level above the concentration of the cal<br>Analyte was detected at a level above the concentration of the cal<br>Analyte was detected at a level above the Sample Detection Limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 498.<br>453.<br>g ware from 80% to 1<br>(ATION (ugA.) % RECOV<br>apple detection limit in 1<br>below:<br>CONCENTRATION (ugA.)<br>VED BY:   | 5<br>5<br>20% with<br>/ERY<br>aborator  | 99.7%<br>90.7%<br>h the<br>y blank |  |
| RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST<br>DEFINITIN<br>CONC. Concentratio<br>CAS# Chemical Ab<br>CONC. Concentratio<br>QUAL Qualifier of a<br>B<br>U<br>SDL Sample Dete<br>99% confide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spik<br>exception of the compounds listed below:<br><u>COMPOUND</u> CONCENTE<br>No Exceptions         No target compounds were detected above the sam<br>with the exception of the compound(s) listed<br><u>COMPOUND</u><br>No Exceptions         .       B. L. Keller         QC APPRO         DNS<br>n Exceeds EPA's allowable Maximum Contamination Level<br>stract Services Number - Unique number to help identify analytes for<br>n (ug/L) of analyte actually detected in the sample<br>nalytical results as follows:<br>Analyte was detected at a level above the concentration of the cal<br>Analyte was detected at a level above the concentration of the cal<br>Analyte was detected at a level below which an accurate quantitat<br>No analyte was detected above the Sample Detection Limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 498.<br>453.<br>(g were from 80% to 1<br>(ATION (ugA.) % RECOV<br>apple detection limit in 1<br>below:<br>CONCENTRATION (ugA.)<br>VED BY:  | 5<br>5<br>20% with<br>/ERY<br>aborator  | 99.7%<br>90.7%<br>h the<br>y blank |  |

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| <sup>1</sup> Request ID No. ORGANIC CHEMISTRY AN                                                                                                                                                                                                                                       | NALYTICAL REQUEST FORM <sup>2</sup> SLD's Accession No.                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| ID No. 197305-A UM Albuquerque. NN                                                                                                                                                                                                                                                     | Laboratory Division<br>dud, NE (P.O. Box 4700)<br>A 87106 (87196-4700)<br>A1-2500/-2570/-2566                               |
| <sup>3</sup> User<br>Code: 15151814101 Receipt at SLD: 97 H07 -                                                                                                                                                                                                                        | 4 Sample         If 1 or 2           7 ??! 4:09         Priority: 1_1 call SLD                                              |
| <sup>5</sup> Submitter WSS<br>Code: Code:                                                                                                                                                                                                                                              | User's 6 <sup>6</sup> Sample Temp.<br>Site ID: 1 8.00 C                                                                     |
| <sup>7</sup> Facility or<br>WSS Name: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                            |                                                                                                                             |
| Facility/WSS If No WSS Code & County:<br>Location: Complete 8, 9 & 10                                                                                                                                                                                                                  | <sup>9</sup> City: 10 State: or CHANGE<br>N M TO                                                                            |
| <sup>11</sup> Sampling $\mathcal{L} \mathcal{A}$<br>Location:                                                                                                                                                                                                                          |                                                                                                                             |
| $\begin{array}{c c} 1^{12} \text{ Sample} \\ \hline \text{Collection:} & On: \\ \hline \\ \hline \\ Date: \\ \hline \\ MM \mid DO \mid YY \\ \hline \\ \hline \\ MM \mid DO \mid YY \\ \hline \\ \hline \\ \\ Last Name \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $ | NICHERTI                                                                                                                    |
| At: 12: 46 from 15 16-1<br>Time: 24:00 Hour Clock First Name                                                                                                                                                                                                                           | ANK                                                                                                                         |
| <sup>13</sup> Sample Info.<br>Contact: Ph: <u>505</u> - <u>827</u> - <u>1573</u>                                                                                                                                                                                                       | If not collector, per box 12,<br>Picase print name here: 827-1558 (Melinly Oleache                                          |
| appropriate boxes below and complete address form.                                                                                                                                                                                                                                     | Tode (when present). However, if one of the following applies, please check $\mathbb{Z}$ , $\mathcal{MED} - \mathcal{HRMB}$ |
| □ New Address for:       □ Send an additional         □ Submitter       Report to >         □ W\$\$\$ / Client                                                                                                                                                                         | P.D. Box 2611D<br>entre EC                                                                                                  |
| <sup>15</sup> Field Data: (When upproprime)                                                                                                                                                                                                                                            | <sup>16</sup> Field Remarks: (Optional)                                                                                     |
| Temperature:°C; pH:SDWA Compositing;<br>Chlorinated 7 I YES or I NO I No Compositing Permi                                                                                                                                                                                             |                                                                                                                             |
| Photos Check Box  Within This System Of Chlorine Residual:mG/L                                                                                                                                                                                                                         | dy                                                                                                                          |
| Sulfate:mG/L<br><sup>17</sup> Sample Type:                                                                                                                                                                                                                                             | ue Other: D'Liquid:                                                                                                         |
| (Check Sonly one) Soil Plant Bloc                                                                                                                                                                                                                                                      |                                                                                                                             |
| <sup>18</sup> Preservation: □ No Preservation<br>(Check Eall that apply) □ Stored at 4°C □ Preserved with I                                                                                                                                                                            | HCl to $pH < 2$ $\Box$ Other:                                                                                               |
| <sup>19</sup> Analyses Requested: Please Check B the appropriate box<br>and, please indice                                                                                                                                                                                             | (es) below to indicate your analytical request(s);<br>ate the number of bottles & vials submitted: Bottles Vials            |
| Volatile Screens:                                                                                                                                                                                                                                                                      | Semivolatile Screens:                                                                                                       |
| □-(154) Aromatic & Halogenated Volatiles (EPA 8021)                                                                                                                                                                                                                                    | -(789) Drinking Water Semivolatile Screens (Indented list)                                                                  |
| E-(765) Mass Spectrometer Volatiles (EPA 8260)                                                                                                                                                                                                                                         | □-(775) EDB, DBCP & TCP (EPA 504.1)<br>□-(758) Acid Herbicides (EPA 515.2)                                                  |
| □-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)                                                                                                                                                                                                                                 | $\square$ -(772) Carbamates (EPA 531.1)                                                                                     |
| D-(766) SDWA Total Trihalomethanes (EPA 502.2)                                                                                                                                                                                                                                         | □-(781) Glyphosate (EPA 547)                                                                                                |
|                                                                                                                                                                                                                                                                                        | $\Box_{-(782)} \text{ Endothall (EPA 548.1)}$                                                                               |
| Other Specific Compounds or Classes:                                                                                                                                                                                                                                                   | □-(783) Diquat (EPA 549.1)<br>□-(788) SOC (EPA 525.2)                                                                       |
| <b>G</b> -()                                                                                                                                                                                                                                                                           | -(755) Rase/Neutral Semivolatiles (No Acids) (EPA 8270)                                                                     |
|                                                                                                                                                                                                                                                                                        | □-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)<br>□-(760) Organochlorine Pesticides / PCB's (EPA 608)              |
|                                                                                                                                                                                                                                                                                        | □-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)                                                                         |
| Remarks:                                                                                                                                                                                                                                                                               | -(768) Disinfection Byproducts Screen (Indented list)                                                                       |
|                                                                                                                                                                                                                                                                                        | $\Box$ -(771) Haloacetic Acids (EPA 552.2)                                                                                  |
|                                                                                                                                                                                                                                                                                        | □-(769) Haloacetonitriles / THM's (EPA 551.1)<br>□-(770) Chloral Hydrate (EPA 551.1)                                        |
|                                                                                                                                                                                                                                                                                        | □-(773) Total Organic Halides [TOX] (EPA 5320b)                                                                             |
| SLD-OR-8912 Revised: Oct-96                                                                                                                                                                                                                                                            | Please RETAIN A COPY of your completed form for your records                                                                |

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|------------------------------------------------------|---------------------------------------------|-------------------------|----------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------|-----------------------|
| STATE OF NEW N                                       |                                             |                         |                                        | PARTME     | NT OF HE                                                                                                        | ALTH                  |
|                                                      | SCIENTIFIC LABORAT                          | ORY DIVIS               | SION                                   |            |                                                                                                                 |                       |
|                                                      | P.O. Box 4700                               | 700 C                   | amino de Salu                          | d. NE      |                                                                                                                 |                       |
| A                                                    | buquerque; NM 87196-4700                    |                         | [505] 841-2500                         | •          |                                                                                                                 |                       |
|                                                      | ORGANIC CHEMISTRY SECTIO                    | N 15051 841-2570        | • •                                    |            |                                                                                                                 |                       |
|                                                      | REPORT TO CLIENT:                           |                         |                                        |            |                                                                                                                 |                       |
|                                                      |                                             |                         | D No.: OR-                             |            | 2020                                                                                                            |                       |
|                                                      |                                             |                         | D NO.: UR-                             | 310        | Zaza 👋                                                                                                          |                       |
| ED Field Offic                                       | ce, Santa Fe                                | F                       | REQUEST ID No .:                       | 19         | 7304                                                                                                            |                       |
| 525 Camino de los Marguez, #5 RECEIVED AT SLD. 11/10 |                                             |                         | 11/10/97                               |            |                                                                                                                 |                       |
|                                                      |                                             |                         |                                        |            |                                                                                                                 |                       |
| Santa Fe, NM 87502 SLD COPY USER 55840               |                                             |                         |                                        |            |                                                                                                                 |                       |
|                                                      |                                             | 2                       |                                        |            |                                                                                                                 |                       |
| SAMPLE COLI                                          | ECTION: DATE: 11/5/97                       | TIME: 1318              | BY:                                    | San        |                                                                                                                 |                       |
| SAMPLING LOCATION: 5A                                |                                             |                         |                                        |            |                                                                                                                 |                       |
| •                                                    | SAMPLE MATRIX: water                        | RE                      | ORTING UNITS:                          | ugl        |                                                                                                                 |                       |
|                                                      |                                             |                         | Grining Grining,                       |            |                                                                                                                 |                       |
|                                                      | Demoste an este d'anne batterier            |                         | nahtana data                           |            |                                                                                                                 |                       |
| Remarks:                                             | Sample marked as: being prese               | ved with Hyd            | rochioric Acid;                        |            |                                                                                                                 |                       |
|                                                      | ·                                           | <u> </u>                | ······································ |            |                                                                                                                 |                       |
|                                                      |                                             |                         |                                        |            |                                                                                                                 |                       |
| EPA M                                                | ETHOD 8260 MASS SPECTROMETER                | VOLATILES E             | Y PURGE AND                            | TRAP       |                                                                                                                 |                       |
|                                                      |                                             | No. of Concession, Name |                                        |            | ana ana amin'ny faritr'o ana amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr | and the second second |
| DATE EXTR                                            | ACTED: N/A                                  |                         | NALYSIS No.                            | .: OR-     | - 97029                                                                                                         | 29                    |
| DATE ANA                                             | LYZED: 11/18/97 13 Days: Within EPA Analysi | s Time                  | SLD BA                                 | TCH No.;   | 433                                                                                                             |                       |
| SAMPLE                                               | VOL (ml): 0.25                              |                         | DILUTION F                             | ACTOR      | 20,00                                                                                                           | )                     |
| Orani EL                                             |                                             |                         |                                        | TID No .:  |                                                                                                                 | COLUMN TWO IS NOT     |
|                                                      |                                             |                         |                                        | 1          |                                                                                                                 | للمستعد               |
|                                                      | VATION: Sample Temperature when received: 8 | Degrees C.; pH s        | 6                                      |            |                                                                                                                 |                       |
| CAS #                                                | ANALYTE NAME                                |                         | CONC. (ug/L)                           | QUAL       | SDL                                                                                                             |                       |
| 71-43-2                                              | Benzene                                     |                         | 610.0                                  |            | 20.0                                                                                                            |                       |
| 108-86-1                                             | Bromobenzene                                |                         |                                        | U          | 20.0                                                                                                            |                       |
| 74-97-5                                              | Bromochloromethane                          |                         |                                        | U          | 20.0                                                                                                            |                       |
| 75-27-4                                              | Bromodichloromethane*                       |                         |                                        | U          | 20.0                                                                                                            |                       |
| 75-25-2                                              | Bromoform*                                  |                         |                                        | U          | 20.0                                                                                                            |                       |
| 74-83-9                                              | Bromomethane                                |                         |                                        | U          | 20.0                                                                                                            |                       |
| 78-93-3                                              | 2-Butanone (MEK)                            |                         |                                        | U          | 200.0                                                                                                           |                       |
| 104-51-8                                             | n-Butylbenzene                              |                         |                                        | <u> </u>   | 20.0                                                                                                            |                       |
| 135-98-8                                             | sec-Butylbenzene                            |                         |                                        | U          | 20.0                                                                                                            |                       |
| 98-06-6                                              | tert-Butylbenzene                           |                         |                                        | U          | 20.0                                                                                                            |                       |
| 1634-04-4                                            | tert-Butyl methyl ether (MTBE)              |                         |                                        | U          | 200.0                                                                                                           |                       |
| 56-23-5                                              | Carbon tetrachloride                        |                         |                                        | U          | 20.0                                                                                                            |                       |
| 108-90-7                                             | Chlorobenzene (monochlorobenzene)           |                         |                                        | U          | 20.0                                                                                                            |                       |
| 75-00-3                                              | Chloroethane                                |                         |                                        | U          | 20.0                                                                                                            |                       |
| 67-66-3                                              | Chloroform*                                 |                         |                                        | U          | 20.0                                                                                                            |                       |
| 74-87-3                                              | Chioromethane                               |                         | ļ                                      | U          | 20.0                                                                                                            |                       |
| 95-49-8                                              | 2-Chiorotoluene                             |                         |                                        | U          | 20.0                                                                                                            |                       |
| 106-43-4                                             | 4-Chiorotoluene                             |                         |                                        | U          | 20.0                                                                                                            |                       |
| 96-12-8                                              | 1,2-Dibromo-3-chloropropane (DBCP)          |                         | L                                      | U          | 20.0                                                                                                            |                       |
| 124-48-1                                             | Dibromochloromethane*                       |                         | [                                      | <u> </u>   | 20.0                                                                                                            |                       |
| 106-93-4                                             | 1,2-Dibromoethane (Ethylene dibromide       | (EDB))                  |                                        | U          | 20.0                                                                                                            |                       |
| 74-95-3                                              | Dibromomethane                              |                         | ļ                                      | <u>u</u>   | 20.0                                                                                                            |                       |
| 95-50-1                                              | 1,2-Dichlorobenzene (o-Dichlorobenzene      |                         | L                                      | U          | 20.0                                                                                                            |                       |
| 541-73-1                                             | 1,3-Dichlorobenzene (m-Dichlorobenzen       |                         | l                                      | U          | 20.0                                                                                                            |                       |
| 106-46-7                                             | 1,4-Dichlorobenzene (p-Dichlorobenzene      | <u></u>                 | L                                      | U          | 20.0                                                                                                            |                       |
| 75-71-8                                              | Dichlorodifluoromethane                     | <b></b> -               |                                        | U          | 20.0                                                                                                            |                       |
| 75-34-3                                              | 1,1-Dichloroethane                          |                         | Į                                      | U          | 20.0                                                                                                            |                       |
| 107-06-2                                             | 1,2-Dichloroethane                          |                         | <u> </u>                               | U          | 20.0                                                                                                            |                       |
| 75-35-4                                              | 1,1-Dichloroethene                          |                         | Į                                      | U          | 20.0                                                                                                            |                       |
| 156-59-2                                             | cis-1,2-Dichloroethene                      |                         | ļ                                      | <u>u</u>   | 20.0                                                                                                            |                       |
| 156-60-5                                             | trans-1,2-Dichloroethene                    |                         |                                        | <u> </u>   | 20.0                                                                                                            |                       |
| 78-87-5                                              | 1,2-Dichloropropane                         |                         |                                        | U          | 20.0                                                                                                            |                       |
| 142-28-9                                             | 1,3-Dichioropropane                         | ····                    |                                        | U          | 20.0                                                                                                            |                       |
| 594-20-7                                             | 2,2-Dichloropropane                         |                         |                                        | U          | 20.0                                                                                                            |                       |
| <u>563-58-6</u><br>1006-10-15                        | 1,1-Dichloropropene                         |                         | <b></b>                                | <u>- u</u> | 20.0                                                                                                            |                       |
| 1006-10-26                                           | cis-1,3-Dichloropropene                     |                         | <u> </u>                               | <u> </u>   | 20.0                                                                                                            |                       |
| 100-10-26                                            | trans-1,3-Dichloropropene                   |                         |                                        | U          | 20.0                                                                                                            |                       |
| 1 10044144                                           | i Ethvidenzene                              |                         | 660.0                                  | 1          | 20.0                                                                                                            |                       |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------|
| 87-68-3                                                                                                                                                                                                                                                                                   | Hexachlorobutadiene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 98-82-8                                                                                                                                                                                                                                                                                   | Isopropylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 159.0                                                                                                                                                                                       |                                                    | 20.0                                                    |
| 99-87-6                                                                                                                                                                                                                                                                                   | 4-Isopropyitoluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 199.0                                                                                                                                                                                       |                                                    | 20.0                                                    |
| 75-09-2                                                                                                                                                                                                                                                                                   | Methylene chloride (Dichloromethane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                             | U                                                  | 40.0                                                    |
| 91-20-3                                                                                                                                                                                                                                                                                   | Naphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$54.0                                                                                                                                                                                      |                                                    | 20.0                                                    |
| 103-65-1                                                                                                                                                                                                                                                                                  | Propylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 372.0                                                                                                                                                                                       |                                                    | 20.0                                                    |
| 100-42-5                                                                                                                                                                                                                                                                                  | Styrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 630-20-6                                                                                                                                                                                                                                                                                  | 1,1,1,2-Tetrachloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 79-34-5                                                                                                                                                                                                                                                                                   | 1,1,2,2-Tetrachloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 127-18-4                                                                                                                                                                                                                                                                                  | Tetrachloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | · · ·                                                                                                                                                                                       | U                                                  | 20.0                                                    |
| 109-99-9                                                                                                                                                                                                                                                                                  | Tetrahydrofuran (THF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                             | U                                                  | 200.0                                                   |
| 108-88-3                                                                                                                                                                                                                                                                                  | Toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2080.0                                                                                                                                                                                      | E                                                  | 20.0                                                    |
| 87-61-6                                                                                                                                                                                                                                                                                   | 1,2,3-Trichlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 120-82-1                                                                                                                                                                                                                                                                                  | 1,2,4-Trichlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 71-55-6                                                                                                                                                                                                                                                                                   | 1,1,1-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 79-00-5                                                                                                                                                                                                                                                                                   | 1,1,2-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 79-01-6                                                                                                                                                                                                                                                                                   | Trichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 75-69-4                                                                                                                                                                                                                                                                                   | Trichlorofluoromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 96-18-4                                                                                                                                                                                                                                                                                   | 1,2.3-Trichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 95-63-6                                                                                                                                                                                                                                                                                   | 1,2,4-Trimethylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1786.0                                                                                                                                                                                      | E                                                  | 20.0                                                    |
| 108-67-8                                                                                                                                                                                                                                                                                  | 1,3,5-Trimethylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 471.0                                                                                                                                                                                       |                                                    | 20.0                                                    |
| 75-01-4                                                                                                                                                                                                                                                                                   | Vinyl chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                             | U                                                  | 20.0                                                    |
| 95-47-6                                                                                                                                                                                                                                                                                   | o-Xylene"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1259.0                                                                                                                                                                                      | E                                                  | 20.0                                                    |
| N/A                                                                                                                                                                                                                                                                                       | p- & m-Xylene*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                             | Ū                                                  | 20.0                                                    |
| N/A                                                                                                                                                                                                                                                                                       | *Total Xylenes*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1259.0                                                                                                                                                                                      |                                                    | 20,0                                                    |
| N/A                                                                                                                                                                                                                                                                                       | "Total Trihalomethanes"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0                                                                                                                                                                                         | U                                                  | 20.0                                                    |
|                                                                                                                                                                                                                                                                                           | lowing Compound(s) Were Tentatively Identified by GC/MS (by L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ibrary Match of M                                                                                                                                                                           | ass Spec                                           | trum)                                                   |
| CAS #                                                                                                                                                                                                                                                                                     | Tentatively Identified Compound Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | % Match                                                                                                                                                                                     | R.T.                                               | Approx, Co                                              |
| 1120-21-4                                                                                                                                                                                                                                                                                 | Undecane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 83.9%                                                                                                                                                                                       | 32.90                                              | 1000 µ                                                  |
| 10042-59-8                                                                                                                                                                                                                                                                                | 2-Propyl-1-heptanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 96.1%                                                                                                                                                                                       | 37,90                                              | 1000 µ                                                  |
| 112-40-3                                                                                                                                                                                                                                                                                  | Dodecane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 97.9%                                                                                                                                                                                       | 42.70                                              | 1000 µ                                                  |
|                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 05 79/                                                                                                                                                                                      | 43.40                                              | (00                                                     |
| 62108-25-2                                                                                                                                                                                                                                                                                | 2,4,6-Trimethyldecane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | \$5.7%                                                                                                                                                                                      | 43.40                                              | 400 µ                                                   |
| 62108-25-2<br>111-65-9                                                                                                                                                                                                                                                                    | 2,4,6-1 rimethyldecane<br>Octane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 97.2%                                                                                                                                                                                       | 21,80                                              | 400 μ<br>400 μ                                          |
|                                                                                                                                                                                                                                                                                           | Octane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 97.2%                                                                                                                                                                                       |                                                    |                                                         |
| 111-65-9                                                                                                                                                                                                                                                                                  | Octane<br>LABORATORY BATCH QUALITY CONTROL SU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 97.2%<br>MMARY                                                                                                                                                                              | 21.80                                              | 400 µ                                                   |
| 111-65-9<br>SURROGATE                                                                                                                                                                                                                                                                     | Octane<br>LABORATORY BATCH QUALITY CONTROL SU<br>SURROGATE COMPOUNDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 97.2%<br>MMARY<br>CONCENTRA                                                                                                                                                                 | 21,80<br>TION                                      | 400 µ<br>% RECOVE                                       |
| 111-65-9                                                                                                                                                                                                                                                                                  | Octane<br>LABORATORY BATCH QUALITY CONTROL SU<br>SURROGATE COMPOUNDS<br>Toluene - D8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 97.2%<br>MMARY<br>CONCENTRA<br>251,-                                                                                                                                                        | 21.80<br>TION<br>4                                 | 400 μ<br>% RECOVE<br>125.7%                             |
| 111-65-9<br>SURROGATE                                                                                                                                                                                                                                                                     | Octane<br>LABORATORY BATCH QUALITY CONTROL SU<br>SURROGATE COMPOUNDS<br>Taluene - D8<br>4 - Bromofluorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 97.2%<br>MMARY<br>CONCENTRA<br>251,<br>181                                                                                                                                                  | 21.80<br>TION<br>4                                 | 400 μ<br>% RECOVE<br>125.7%<br>90.5%                    |
| 111-65-9<br>SURROGATE                                                                                                                                                                                                                                                                     | Octane<br>LABORATORY BATCH QUALITY CONTROL SU<br>SURROGATE COMPOUNDS<br>Taluene - D8<br>4 - Bromofluorobenzene<br>1,2 - Dichlorobenzene - D4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177                                                                                                                                          | 21,80<br>TION<br>4                                 | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%           |
| 111-65-9<br>SURROGATE                                                                                                                                                                                                                                                                     | Octane<br>LABORATORY BATCH QUALITY CONTROL SU<br>SURROGATE COMPOUNDS<br>Taluene - D8<br>4 - Bromofluorobenzene<br>1,2 - Dichlorobenzene - D4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177                                                                                                                                          | 21,80<br>TION<br>4                                 | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%           |
| 111-65-9<br>SURROGATE<br>RECOVERIES;                                                                                                                                                                                                                                                      | Octane<br>LABORATORY BATCH QUALITY CONTROL SU<br>SURROGATE COMPOUNDS<br>Toluene - D8<br>4 - Bromofluorobenzene<br>1,2 - Dichlorobenzene - D4<br>The % recoveries for compounds in the batch spike we                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177                                                                                                                                          | 21,80<br>TION<br>4                                 | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%           |
| 111-65-9<br>SURROGATE<br>RECOVERIES;<br>LABORATORY<br>FORTIFIED                                                                                                                                                                                                                           | Octane<br>LABORATORY BATCH QUALITY CONTROL SU<br>SURROGATE COMPOUNDS<br>Toluene - D8<br>4 - Bromofluorobenzene<br>1,2 - Dichlorobenzene - D4<br>The % recoveries for compounds in the batch spike we<br>exception of the compounds listed below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 97.2%<br>MMARY<br>CONCENTRA<br>251.4<br>181<br>177<br>re from 80% to                                                                                                                        | 21.80<br>TION<br>4<br>120% Wi                      | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%           |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK                                                                                                                                                                                                                  | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND       CONCENTRATIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177                                                                                                                                          | 21.80<br>TION<br>4<br>120% Wi                      | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%           |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED                                                                                                                                                                                                                           | Octane<br>LABORATORY BATCH QUALITY CONTROL SU<br>SURROGATE COMPOUNDS<br>Toluene - D8<br>4 - Bromofluorobenzene<br>1,2 - Dichlorobenzene - D4<br>The % recoveries for compounds in the batch spike we<br>exception of the compounds listed below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 97.2%<br>MMARY<br>CONCENTRA<br>251.4<br>181<br>177<br>re from 80% to                                                                                                                        | 21.80<br>TION<br>4<br>120% Wi                      | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%           |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES                                                                                                                                                                                                    | Octane         LABORATORY BATCH QUALITY CONTROL SU         SURROGATE COMPOUNDS         Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND       CONCENTRATIC         No Exceptions       CONCENTRATIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N (ug/L) % REC                                                                                                     | 21.80<br>TION<br>4<br>120% wi                      | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY                                                                                                                                                                                      | Octane         LABORATORY BATCH QUALITY CONTROL SU         SURROGATE COMPOUNDS         Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND         COMPOUND         Mo Exceptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N (ug/L) % RECO                                                                                                    | 21.80<br>TION<br>4<br>120% wi                      | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES                                                                                                                                                                                                    | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND         COMPOUND       CONCENTRATIC         No Exceptions       No target compounds were detected above the sample of with the exception of the compound(s) listed below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>PN (ug/L) % RECO<br>Detection limit in<br>w:                                                                        | 21.80<br>TION<br>4<br>120% wi<br>DVERY<br>łaborato | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY                                                                                                                                                                                      | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Toluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND         COMPOUND         No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND         COMPOUND         COMPOUND         COMPOUND         COMPOUND         COMPOUND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N (ug/L) % RECO                                                                                                    | 21.80<br>TION<br>4<br>120% wi<br>DVERY<br>łaborato | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY                                                                                                                                                                                      | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND         COMPOUND       CONCENTRATIC         No Exceptions       No target compounds were detected above the sample of with the exception of the compound(s) listed below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>PN (ug/L) % RECO<br>Detection limit in<br>w:                                                                        | 21.80<br>TION<br>4<br>120% wi<br>DVERY<br>łaborato | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES;<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS                                                                                                                                                                            | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND CONCENTRATIC         No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND         COMPOUND         No Exceptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N.(ug/L) % RECO<br>detection limit in<br>w:<br>CENTRATION (ug/                                                     | 21.80<br>TION<br>4<br>120% wi<br>2VERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY                                                                                                                                                                                      | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND CONCENTRATIC         No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND         No Exceptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N.(ug/L) % RECO<br>detection limit in<br>w:<br>CENTRATION (ug/                                                     | 21.80<br>TION<br>4<br>120% wi<br>2VERY<br>laborato | 400 µ<br>% RECOVE<br>125.7%<br>90.5%<br>88.5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES;<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS                                                                                                                                                                            | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND CONCENTRATIC         No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND         COMPOUND         No Exceptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N.(ug/L) % RECO<br>detection limit in<br>w:<br>CENTRATION (ug/                                                     | 21.80<br>TION<br>4<br>120% wi<br>2VERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES;<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS                                                                                                                                                                            | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND CONCENTBATIC No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND CONCENTBATIC No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND CON         No Exceptions         B. L. Keller         QC APPROVED E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N.(ug/L) % RECO<br>detection limit in<br>w:<br>CENTRATION (ug/                                                     | 21.80<br>TION<br>4<br>120% wi<br>2VERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST:<br>DEFINITIC                                                                                                                                                   | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below;         COMPOUND       CONCENTRATIC         No Exceptions       No target compounds were detected above the sample of with the exception of the compound(s) listed below;         COMPOUND       CON         No Exceptions       CON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N.(ug/L) % RECO<br>detection limit in<br>w:<br>CENTRATION (ug/                                                     | 21.80<br>TION<br>4<br>120% wi<br>2VERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST:<br>DEFINITIC<br>Concentration                                                                                                                                  | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND CONCENTRATIC NO Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND CONCENTRATIC NO Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND CON NO Exceptions         B. L. Keller         QC APPROVED E         B. L. Keller         QC APPROVED E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N (µg/L) % RECO<br>Detection limit in<br>W:<br>CENTRATION (µg/L)<br>3Y:                                            | 21.80<br>TION<br>4<br>120% wi<br>2YERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST:<br><u>DEFINITIC</u><br>Concentration<br>CAS# Chamical Abs                                                                                                      | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below;         COMPOUND       CONCENTRATIC         No Exceptions       No target compounds were detected above the sample of with the exception of the compound(s) listed below;         COMPOUND       CON         No Exceptions       CON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N (µg/L) % RECO<br>Detection limit in<br>W:<br>CENTRATION (µg/L)<br>3Y:                                            | 21.80<br>TION<br>4<br>120% wi<br>2YERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST:<br>DEFINITIO<br>Concentration<br>CAS# Charmical Absolution                                                                                                     | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND CONCENTRATIC NO Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND CONCENTRATIC No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND CON No Exceptions         B. L. Keller       QC APPROVED E         B. L. Keller       QC APPROVED E         DNS         Caceeds EPA's allowable Maximum Contamination Level         Services Number - Unique number to help identify analytes lister                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N (µg/L) % RECO<br>Detection limit in<br>W:<br>CENTRATION (µg/L)<br>3Y:                                            | 21.80<br>TION<br>4<br>120% wi<br>2YERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST:<br>DEFINITIC<br>Concentration<br>CAS# Chamical Abs<br>CONC. Concentration<br>QUAL Qualifier of al                                                              | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below;         COMPOUND       CONCENTRATIC         No Exceptions       COMPOUND         No target compounds were detected above the sample of with the exception of the compound(s) listed below;         COMPOUND       CON         No target compounds were detected above the sample of with the exception of the compound(s) listed below;         COMPOUND       CON         No Exceptions       CON         No Exceeds EPA's allowable Maximum Contamination Level         Stract Services Number - Unique number to help identify analytes listen         (ug/L) of analyte actually detected in the sample         Subjrical results as follows:         Analyte was detected in lab                                                                                                                                                                                                                                                                                                                                                | 97.2%<br>MMARY<br>CONCENTRA<br>251,<br>181<br>177<br>re from 80% to<br>2N (ug/L) % REC<br>detection limit in<br>w:<br>CENTRATION (ug/<br>BY:                                                | 21.80<br>TION<br>4<br>120% wi<br>2YERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST:<br>DEFINITIC<br>Concentration<br>CAS# Charmical Absolutions<br>CONC. Concentration<br>GUAL Qualifier of all<br>E                                               | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below;         COMPOUND CONCENTBATIC No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below;         COMPOUND CONCENTBATIC No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below;         COMPOUND CON         No Exceptions         B. L. Keller         QC APPROVED E         MSS         a Exceeds EPA's allowable Maximum Contamination Level         stract Services Number - Unique number to help identify analytes listen (ugL) of analyte actually detected in the sample halytical results as follows:         Analyte was detected in laboratory blank         Analyte was detected in laboratory blank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N (ug/L) % REC<br>Detection limit in<br>w:<br>CENTRATION (ug/<br>3Y: Timeson<br>d by different name<br>tion curve. | 21.80<br>TION<br>4<br>120% wi<br>2VERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST:<br>DEFINITIC<br>Concentration<br>CAS# Charmical Absolution<br>CONC. Concentration<br>CONC. Concentration<br>B<br>B<br>J                                        | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND CONCENTRATIC No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND CONCENTRATIC No Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below:         COMPOUND CON No Exceptions         No target compounds were detected above the sample of COMPOUND CON No Exceptions         B. L. Keller       QC APPROVED E         In Exceeds EPA's allowable Maximum Contamination Level       Stract Services Number - Unique number to help identify analytes listen (uqL) of analyte actually detected in the sample halytical results as follows:         Analyte was detected in laboratory blank       Analyte was detected at a level above the concentration of the calibra Analyte was detected at a level above the concentration of the calibra                                                                                                                                                                                                                                                                                                                                                                    | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N (ug/L) % REC<br>Detection limit in<br>w:<br>CENTRATION (ug/<br>3Y: Timeson<br>d by different name<br>tion curve. | 21.80<br>TION<br>4<br>120% wi<br>2VERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST:<br>DEFINITIO<br>Concentration<br>CAS# Chamical Absolutions<br>CONC. Concentration<br>QUAL Qualifier of a<br>B<br>E<br>J<br>U                                   | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND CONCENTBATIC NO Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below COMPOUND CON No Exceptions         No target compounds were detected above the sample of COMPOUND CON No Exceptions         No target compounds were detected above the sample of WNS         No target compounds were detected above the sample of COMPOUND CON No Exceptions         No Exceeds EPA's allowable Maximum Contamination Level stract Services Number - Unique number to help identify analytes listen (ug/L) of analyte actually detected in the sample allytical results as follows:         Analyte was detected at level above the concentration of the calibra Analyte was detected at a level above the concentration of the calibra construction of the calibra construction of the calibra construction the sample Detection Limit.                                                                                                                                                                                                                                                                                                                                                                              | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N (µg/L) % RECO<br>Detection limit in<br>W:<br>CENTRATION (µg/<br>BY:                                              | 21.80<br>TION<br>4<br>120% wi<br>2VERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST:<br>DEFINITIO<br>Concentration<br>CAS# Chamical Abs<br>CONC. Concentration<br>QUAL Qualifier of an<br>B<br>E<br>J<br>U<br>SDL Sample Dete                       | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND CONCENTRATIC NO Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below COMPOUND CON No Exceptions         No target compounds were detected above the sample of COMPOUND CON No Exceptions         No target compounds were detected above the sample of COMPOUND CON No Exceptions         No target compounds were detected above the sample of COMPOUND CON No Exceptions         No target compounds were detected above the sample of UND CON No Exceptions         No Exceeds EPA's allowable Maximum Contamination Level stract Services Number - Unique number to help identify analytes listen a (ug/L) of analyte actually detected in the sample allytical results as follows:         Analyte was detected at level above the concentration of the calibra Analyte was detected at a level above the concentration of the calibra construction Limit.         No analyte was detected at a level above the concentration of the calibra Construction Limit.                                                                                                                                                                                                                                        | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>2N (µg/L) % RECO<br>Detection limit in<br>W:<br>CENTRATION (µg/<br>BY:                                              | 21.80<br>TION<br>4<br>120% wi<br>2VERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |
| 111-65-9<br>SURROGATE<br>RECOVERIES:<br>LABORATORY<br>FORTIFIED<br>BLANK<br>RECOVERIES<br>LABORATORY<br>BLANKS<br>ANALYST:<br>DEFINITIO<br>Concentration<br>CAS# Chamical Abs<br>CONC. Concentration<br>CONC. Concentration<br>CONC. Concentration<br>U<br>SDL Sample Date<br>99% confide | Octane         LABORATORY BATCH QUALITY CONTROL SUR         SURROGATE COMPOUNDS         Taluene - D8         4 - Bromofluorobenzene         1,2 - Dichlorobenzene - D4         The % recoveries for compounds in the batch spike we exception of the compounds listed below:         COMPOUND CONCENTBATIC NO Exceptions         No target compounds were detected above the sample of with the exception of the compound(s) listed below COMPOUND CON No Exceptions         No target compounds were detected above the sample of COMPOUND CON No Exceptions         No target compounds were detected above the sample of WNS         No target compounds were detected above the sample of COMPOUND CON No Exceptions         No Exceeds EPA's allowable Maximum Contamination Level stract Services Number - Unique number to help identify analytes listen (ug/L) of analyte actually detected in the sample allytical results as follows:         Analyte was detected at level above the concentration of the calibra Analyte was detected at a level above the concentration of the calibra construction of the calibra construction the calibra construction of the calibra construction the calibra construction of the calibra construction of the calibra construction of the calibra construction of the calibra construction of the calibra construction of the calibra construction of the calibra construction of the calibra construction of the calibra construction of the calibra constructin the calibra consthe calibra constructin the calibra consthe cal | 97.2%<br>MMARY<br>CONCENTRA<br>251,-<br>181<br>177<br>re from 80% to<br>PN (ug/L) % REC<br>Detection limit in<br>W:<br>CENTRATION (ug/<br>BY:                                               | 21.80<br>TION<br>4<br>120% wi<br>2VERY<br>laborato | 400 µ<br>% RECOVE<br>125,7%<br>90.5%<br>88,5%<br>th the |

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DEC-01-97 MON 02:16 PM

| Request ID No. ORGANIC CHEMISTRY A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NALYTICAL REQUEST FORM <sup>2</sup> SLD's Accession No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| ID No. 197304-A UN Albuquerque. N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Laboratory Division<br>Salud, NE (P.O. Box 4700)<br>M 87106 (87196-4700)<br>841-2500/-2570/-2566                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| User<br>Code: $15151914101$ Date & Time of<br>Receipt at SLD: 97 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | V - 7     F(1)     l;:     0.3     4     Sample     If I or 2       Priority:     11     call SLD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Submitter         WSS           Code:         1         1         Code:         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | User's 6 Sample Temp. Sample Temp. C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Facility or<br>WSS Name: L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Facility/WSS     If No WSS Code     8 County:       Location:     Complete 8.9 & 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <sup>9</sup> City: <sup>10</sup> State: or CHANGE<br>NM TO 1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sampling 5A-<br>Location: LILLLLLLLLLLLL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Collection: Date: MM / DD / YY Lass Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | N <sub>1</sub> C <sub>1</sub> H <sub>1</sub> E <sub>r</sub> Z <sub>1</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| At: $\frac{1}{1000} = \frac{18}{2400} \frac{PM}{Hour Clock} = \frac{1}{1000} \frac{1}{1000} \frac{F}{1000} \frac{F}$ | $\underline{A} \underline{N} \underline{K} \underline{I} \underline{I} \underline{I} \underline{I} \underline{I} \underline{I} \underline{I} I$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <sup>3</sup> Sample Info.<br>Contact: Ph: [35] - 827 - 1513                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | If not collector, per box 12.<br>Please print name here:827 -1558 (Melinde Oleacher                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Code (when present). However, if one of the following applies, please check 🖻 NMED - HRMB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| □ New Address for: □ Send an additional<br>□ Submitter Report to ➤ Address:<br>□ WSS / Client <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pa ly 2/112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <sup>5</sup> Field Data: (When appropriate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <sup>16</sup> Field Remarks: (Optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Temperature:      *C;       pH:       SDWA Compositing         Chlorinated ?       I YES or I NO       I No Compositing Perm         Presse Check Box       I Within This System O         Chlorine Residual:      mG/L       I Within All Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sulfac: mGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| (Check B only one) □ Soil □ Plant □ Blo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <sup>8</sup> Preservation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | HCl to pH < 2 $\Box$ Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <sup>9</sup> Analyses Requested: Please Check E the appropriate box<br>and please indic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | x(es) below to indicate your analytical request(s);<br>ate the number of bottles & vials submitted: Bottles Vials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Volatile Screens:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Semivolatile Screens:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| D-(754) Aromatic & Halogenated Volatiles (EPA 8021)<br>D-(765) Mass Spectrometer Volatiles (EPA 8260)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | □-(789) Drinking Water Semivolatile Screens (Indented list)<br>□-(775) EDB, DBCP & TCP (EPA 504.1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| □-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | C (759) A statistica (EDA 615 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| -(776) SDWA Total Trihalomethanes (EPA 502.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | □-(772) Carbamates (EPA 531.1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | □-(781) Glyphosate (EPA 547)<br>□-(782) Endothall (EPA 548.1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Other Specific Compounds or Classes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 🗆-(783) Diquat (EPA 549.1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | □-(788) SOC (EPA 525.2)<br>□-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| □-()                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | □-(760) Organochlorine Pesticides / PCB's (EPA 608)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Remarks:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | □-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)<br>□-(768) Disinfection Byproducts Screen (Indented list)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -(771) Haloacetic Acids (EPA 552.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| SLD-OR-8912 Revised: Oct-96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Please RETAIN A COPY of your completed form for your records                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 20 'd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DEC-01-01 WON OS:11 bW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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### **Roger Anderson**

| From:    | John Waters[SMTP:jwaters@carlsbadnm.com] |
|----------|------------------------------------------|
| Sent:    | Monday, December 01, 1997 9:08 AM        |
| То:      | RANDERSON                                |
| Subject: | Salty Bill Results                       |

The City is interested in the progress of the Salty Bill Investigation. We had assumed from our conversations, that we would be kept up to date on the situation.

Over the past two weeks, calls have been made from the City to David Catanach and Bill Olsen. Messages were left and have yet to be returned. I did finally contact Martyne Kieling. Ms. Kieling had stated that she had "received negative results on the nitrogen analysis, which was what we were interested in." I stated that the City was concerned about all of the results and that it was my understanding that the City would be provided with all of the information as it became available.

AEN cannot release these results to us, but they have indicated that at least some of the results (ten days ago) have been faxed to Bill Olsen.

A couple of weeks after your visit the NMED Haz Mat Bureau sampled from the tanks on site. The City has received results on the tanks on both sides of the gunbarrel tank (which you sampled) and BOTH showed substances which are NOT in produced water. These results are available for your review.

Please call me at (505) 887-1191 or email me at jwaters@carlsbadnm.com or get in touch with us next week. (week of Dec. 1)

Thank you for your attention to this.

Sincerely, John Waters Environmental Services Manager City of Carlsbad



### NEW MEXICO ONERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

November 21, 1997

### CERTIFIED MAIL RETURN RECEIPT NO. P.326-936-368

Ms. Corinne B. Grace P.O. Box 1418 3722 National Parks Hwy. Carlsbad, N.M. 88220

### Re: Salty Bills Water Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Ms. Grace:

The New Mexico Oil Conservation Division (OCD) received a phone call from Mr. Gene Lee, environmental contractor for Salty Bill Water Disposal, on November 21, 1997 requesting additional time to submit the required closure plan. The OCD hearby grants an extension for the closure plan submittal from the previous extension of November 21, 1997 to November 25, 1997.

If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

. Jhuly

Martyne J. Kieling Environmental Geologist

Attachments
 xc: Artesia OCD Office
 Hobbs OCD Office
 Mr. Ernest L. Padilla, Padilla Law Firm, PA, 1512 St. Francis Drive, Santa Fe, NM 87501
# MEMORANDUM OF CONVERSATION

| TELEPHONE       | PERSONAL TIME                                                                                                  | DATE                            |
|-----------------|----------------------------------------------------------------------------------------------------------------|---------------------------------|
| ORIGINATTING PA | RTY                                                                                                            |                                 |
| OTHER PARTIES   |                                                                                                                | _                               |
| DISCUSSION      |                                                                                                                | _                               |
|                 | S:00 Nov 25th.<br>Wull Avound.<br>Contractors<br>Curdnich<br>Values Fixed<br>Pickedop Some Soil<br>24 Hove Man | wonte extension de time letter. |
|                 |                                                                                                                |                                 |
|                 |                                                                                                                |                                 |
| CONCLUSIONS     |                                                                                                                |                                 |
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## NEW MEXICO WERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

November 19, 1997

### CERTIFIED MAIL RETURN RECEIPT NO. P.326-936-365

Mr. Ernest L. Padilla Padilla Law Firm, PA 1512 St. Francis Drive Santa Fe, NM 87501

Re: Salty Bills Water Disposal Facility NE/4, NW/4 of Section 36, Township 22 South, Range 26 East, NMPM Eddy County, New Mexico

Mr. Padilla:

I have received your letter dated November 12, 1997 requesting an extension from the November 17, 1997 deadline to November 21, 1997 for the above referenced location. The extension request is hearby granted.

If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

Martyn goliely

Martyne J. Kieling Environmental Geologist

Attachments xc: Artesia OCD Office Hobbs OCD Office Ms. Corinne B. Grace, P.O. Box 1418, 3722 National Parks Hwy., Carlsbad, N.M. 88220

#### Martyne Kieling

To:LeeghSubject:RE: Grace Oil Co.--Salty Bill Salt Water Disposal FacilityImportance:High

#### Mr. Gene Lee:

I have recieved your phone message and just attempted to return your call. I have received a letter form Ernest L. Padilla requesting an extension of the November 17, 1997 deadline to November 21, 1997. I am in the process of writing a letter approving the request for the extension. I will be in the office for the rest of the week please contact me if you have any questions concerning the Salty Bill Water Disposal Facility.

Sincerely,

Martyne J. Kieling

From: Sent: To: Subject:

Leegh[SMTP:Leegh@aol.com] Saturday, November 15, 1997 12:42 AM mkieling Grace Oil Co.--Salty Bill Salt Water Disposal Facility

Martyne J. Kieling Environmental Geologist OCD Environmental Bureau Santa Fe, NM

Dear Sir,

I was contacted by Grace Oil Company of Carlsbad, NM in reference to the above Salt water disposal facility. I would like to talk to you about submitting a remediation plan. There are also a couple of questions I have about your report. I will attempt to contact you by telephone on Monday, 11-17-97. Thanks.

Gene Lee

E Mail--Leegh@AOL.com 505-622-7355 505-624-2911 Fax 505-626-4292 Cellular.

#### PADILLA LAW FIRM, P.A.

STREET ADDRESS 1512 S. ST. FRANCIS DRIVE SANTA FE, NEW MEXICO 87501 MAILING ADDRESS P.O. BOX 2523 SANTA FE, NEW MEXICO 87504-2523 Telephone (505) 988-7577 Facsimile (505) 988-7592

#### FAX TRANSMITTAL COVERSHEET

Date: November 12, 1997

To: Martyne J. Kicling

From: Ernest L. Padilla

Fax No. (505) 827-8177

Re: SALTY BILL WATER DISPOSAL FACILITY

2 Pages Transmitted Including Coversheet

### 

(505) 988-7577 ASK FOR: Angel

MESSAGE: Scc attached letter.

cc: Corinne Grace, via/faesimile (505) 885-8497 Joel Carson, Esq., via/faesimile (505) 746-6316

Note: The information contained in this facsimile message is attorney/client privileged and confidential information intended only for use by the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivery to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this facsimile in error, please immediately notify us by collect telephone call and return the original message to us at the above address via the U.S. Postal Service. Thank you.

Sent \_\_\_\_\_ Time

LI al

## PADILLA LAW FIRM, P.A.

TELEPHONE 505-988-7577 **STREET ADDRESS** 1512 ST. FRANCIS DRIVE SANTA FE, NM 67501 MAILING ADDRESS P.O. BOX 2523 SANTA FE, NM 67504-2523

PACSIMILE 505-988-7592

#### VIA FACSIMILE (505) 827-8177

November 12, 1997

New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Attention: Martyne J. Kicling Environmental Geologist

### RE: SALTY BILL WATER DISPOSAL FACILITY NW/4 NW/4 OF SECTION 36, T22S, R26E, NMPM, EDDY COUNTY, NEW MEXICO

Dear Ms. Kieling:

Pursuant to Mr. Carson's discussion with you this afternoon, this letter request an extension of time from November 17, 1997 to and including November 21, 1997 within which to file a response to your letter to Corinne B. Grace dated November 5, 1997.

The extension is required so that we may submit a meaningful response. I, myself, tried to reach you this past Monday but was informed that you would be out until today. I did meet with Mr. Anderson and Mr. Olson this morning, not knowing that Mr. Carson was going to try to see you this afternoon. Nonetheless, we definitely need more time to assess the problems addressed in your letter.

Please let us know whether this request will be granted. Thank you,

Very truly yours, ERNEST L. PADILLA

4 11 6 1

ELP/as cc: Corinne Grace, via/facsimile (505) 885-8497 Joel Carson, Esq., via/facsimile (505) 746-6316

American Environmental Network (NM), Inc. Analytical Services for the Environment Phone: (505)344-3777 FAX: (505)344-4413

## FAX

|                                                                                                                      | BILL OLSON<br>NMED-OCD<br>(505)827-7152<br>(505)827-8177                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                      | Kim McNeill<br>11/12/97<br>2                                                                                                                                                                                                                                                                                                                          |
| AEN ID NO:<br>PROJECT NAME/NO.:<br>SAMPLES RECEIVED:                                                                 | SALTY BILL                                                                                                                                                                                                                                                                                                                                            |
| COMMENTS:                                                                                                            | John Waters of City of Carlsbad was                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                      | wanting to know about this data.                                                                                                                                                                                                                                                                                                                      |
| ,                                                                                                                    | His name was not in the chain of custon,                                                                                                                                                                                                                                                                                                              |
|                                                                                                                      | so I was unable to give any results to                                                                                                                                                                                                                                                                                                                |
|                                                                                                                      | him.                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                      | I will far the rest of the data as soon.<br>as it is available                                                                                                                                                                                                                                                                                        |
|                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |
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| protested from disclosure under upplicable law. If the r<br>transmission (a the intended recipient, you are hereby r | ist or untilly to which it is addressed. It may contain information that is privileged, confidential, or otherwise<br>adder at this transmission is not the intended recipient or the amployee again responsible for delivering the<br>willice that any dissentination, distribution, copying or use of this transmission or its contents is strictly |
| prohibited. If you have received this transmission in 60<br>ucceive the serve number of phone as stated above, dis   | or, please noilly us at the phone number listed above. If thy of the FAX copies are itegible, or you do not<br>base contact us intrividialely.                                                                                                                                                                                                        |

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## GAS CHROMOTOGRAPHY RESULTS

| TEST         | : PURGEABLE H | ALOCARBC | NS / AROMA | TICS (EPA 8010 | /8020)   |          |
|--------------|---------------|----------|------------|----------------|----------|----------|
| CLIENT       | : NMED-OCD    |          |            |                | AEN I.D. | ; 710420 |
| PROJECT #    | : SALTY BILL  |          |            |                |          |          |
| PROJECT NAME | : SALTY BILL  |          |            |                |          |          |
| SAMPLE       |               |          | DATE       | DATE           | DATE     | DIL.     |
|              |               |          |            |                |          | ELOTOR   |

| ID. # CLIENT I.D,             |                                         | MATRIX  | SAMPLED     | EXTRACTED | ANALYZED | FACTOR |
|-------------------------------|-----------------------------------------|---------|-------------|-----------|----------|--------|
| 01 9710280910                 |                                         | AQUEOUS | 10/28/97    | NA        | 11/5/97  | 50     |
| PARAMETER                     | DET. LIMIT                              | UN      | ITS         | 01        |          |        |
| BENZENE                       | 0,5                                     | UG      | i/L         | 2600      |          |        |
| BROMODICHLORMETHANE           | 0.2                                     | UC      | s/L         | < 10      |          |        |
| BRÓMOFORM                     | 0.5                                     | UG      | J/L         | < 25      |          |        |
| BROMOMETHANE                  | 1.0                                     | UG      | 5/L         | < 50      |          |        |
| CARBON TETRACHLORIDE          | 0.2                                     | ŲG      | 5/L         | < 10      |          |        |
| CHLOROBENZENE                 | 0.5                                     | UG      | 5/L         | < 25      |          |        |
| CHLOROETHANE                  | 0.5                                     | UĢ      | ì/L         | < 25      |          |        |
| CHLOROFORM                    | 0.5                                     | UG      | 1/L         | < 25      |          |        |
| CHLOROMETHANE                 | 1.0                                     | UG      | 6/L         | < 50      |          |        |
| BROMOCHLOROMETHANE            | 0.2                                     | UG      | i/L         | < 10      |          |        |
| ,2-DIBROMOETHANE (EDB)        | 0.2                                     | UG      |             | < 10      |          |        |
| 2-DICHLOROBENZENE             | 0.5                                     | UG      | i/L         | < 25      |          |        |
| 3-DICHLOROBENZENE             | 0.5                                     | UG      | <i>:/</i> L | < 25      |          |        |
| ,4-DICHLOROBENZENE            | 0.5                                     | UG      | ;/L         | < 25      |          |        |
| 1-DICHLOROETHANE              | 0.3                                     | UG      | i/L         | < 15      |          |        |
| ,2-DICHLOROETHANE (EDC)       | 0.5                                     | UG      |             | < 25      |          |        |
| ,1-DICHLOROETHENE             | 0.2                                     | UG      | /L          | < 10      |          |        |
| is-1,2-DICHLOROETHENE         | 0. <b>2</b>                             | UG      | i/L_        | < 10      |          |        |
| rans-1,2-DICHLOROETHENE       | 1.0                                     | UG      | i/L         | < 50      |          |        |
| ,2-DICHLOROPROPANE            | 0.2                                     | UG      | VL          | < 10      |          |        |
| is-1,3-DICHLOROPROPENE        | 0.2                                     | UG      | 1/L         | < 10      |          |        |
| rans-1,3-DICHLOROPROPENE      | 0.2                                     | UG      | i/L         | < 10      |          |        |
| THYLBENZENE                   | 0.5                                     | UG      | i/L         | 440       |          |        |
| METHYL-I-BUTYL ETHER          | 2.5                                     | UG      | i/L         | < 125     |          |        |
| METHYLENE CHLORIDE            | 2.0                                     | UG      | i/L         | < 100     |          |        |
| 1,1,2,2-TETRACHLOROETHANE     | 0.5                                     | UG      | i/L.        | < 25      |          |        |
| TETRACHLOROETHENE             | 0.5                                     | UG      | 5/L         | < 25      |          |        |
| TOLUENE                       | 0.5                                     | UG      | i/L         | 2400      |          |        |
| 1,1,1-TRICHLOROETHANE         | 1.0                                     | UG      | i/L         | < 50      |          |        |
| 1,1,2-TRICHLOROETHANE         | 0.2                                     | UG      | /L          | < 10      |          |        |
| (RICHLOROETHENE               | 0.3                                     | UG      | i/L         | < 15      |          |        |
| <b>FRICHLOROFLUOROMETHANE</b> | 0.2                                     | UG      | 1/L         | < 10      |          |        |
| /INYL CHLORIDE                | 0.5                                     | UG      | i/L         | < 25      |          |        |
| TOTAL XYLENES                 | 0.5                                     | UG      | /L          | 950       |          |        |
| SURROGATE:                    |                                         |         |             |           |          |        |
| BROMOCHLOROMETHANE (%)        |                                         |         |             | 111       |          |        |
| SURROGATE LIMITS              | (73 - 117)                              |         |             |           |          |        |
| RIFLUOROTOLUENE (%)           | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |         |             | 89        |          |        |
| SURROGATE LIMITS              | (69 - 117)                              |         |             |           |          |        |
| ALENIAT NOTES                 |                                         |         |             |           |          |        |
| CHEMIST NOTES:                |                                         |         |             |           |          |        |

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|                         | City of Carlsbad<br>New Mexico<br>Iax IransmissionCover Sheet<br>Environmental Services Dept. |                        |
|-------------------------|-----------------------------------------------------------------------------------------------|------------------------|
|                         |                                                                                               |                        |
| TO: David Catanach, Ber | Stone; NM OCD Fax                                                                             | Number: (505) 827-1389 |
| FROM: John Waters, En   | vironmental Services Manager                                                                  |                        |
| DATE: October 27, 1997  | , }                                                                                           |                        |
| NUMBER OF PAGES (i      | ncl. cover): 5                                                                                |                        |

RE: Salty Bill Problem

These are the results of our VOC & Metals analysis of surface water ponds and TPH of contaminated soil onsite from the first week of October. Local NMED officials were present while samples were collected. In addition, the NMED Secretary and District Manager also visited the polluted site.

We have a water well 3/4 of a mile from this mess. You can probably see our problem with this well. This well has shown contamination for nitrate and carbon tetrachloride in recent NMED Safe Drinking Water Act sampling. No agriculture, septic tanks, or industry is nearby to account for the pollution. This kind of mess is commonplace for Salty Bill It is important to note that the ponds at the site were not created by rainfall (it had not rained for at least 10 days) and had yellow-green crystals growing across the surface of the grey water. I took several interesting photos of the site which illustrate this and the other deplorable conditions of Salty Bill.

The City would like the OCD to 1. Shut the facility down immediately and 2. To sample all onsite storage tanks at three zones (top, middle, and bottom) for the following contaminants: VOC's, Metals, Pesticides, Nitrates, and Nitrites. If the OCD cannot do the latter, please give the authority to the City to sample and analyze (at SLD, AEN, or a lab of your choice) the tank's contents. The City wants to know what is contaminating our well and what Ms. Grace has REALLY been flushing down the hole at Salty Bill. In addition, CERCLA language is rather allencompassing when it come to who has the liability for superfund sites. As the City has been against this large-scale operation from the moment it was discovered, we want none of the liability. If you have any problems with this transmission or need additional information, please give me a call at (505) 887-1191, extension 115. Thank you for your assistance.

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P.01

## American Environmental Network, Inc.

## GENERAL CHEMISTRY RESULTS

|           | 0 <b>346</b><br>/10/97 |
|-----------|------------------------|
| : 10      | /10/97                 |
|           |                        |
|           |                        |
| DATE      | DIL.                   |
| NALYZED F | ACTOR                  |
| 10/16/97  | 100                    |
|           |                        |
|           |                        |
|           |                        |

CHEMIST NOTES: N/A

10:19

0<u>CT-27-97 MON</u>

Contributoritor

### American Environmental Network, Inc.

#### GG/MS REBUILTS.

| TEST<br>CLIENT                | · VOLATILE ORG |               | 00 8260 EXT | ENDED AEN LE | •        | 710346                    |
|-------------------------------|----------------|---------------|-------------|--------------|----------|---------------------------|
| PROJECT                       | : (none)       |               |             | DATE RECEIVE |          | 10/10/97                  |
| PROJECT NAME                  | : (none)       |               |             | BAIL NEVELLE |          |                           |
| SAMPLE                        | ((name)        |               | CATE        | DATE         | DATE     | DIL.                      |
| 10 #                          | CLIENT ID      | MATRIX        | SAMPLED     | EXTRACTED    | ANALYZED | FACTOR                    |
| 710346-02                     | AQ SAMPLE      | AQUEOUS       | Unknown     | NA           | 10/15/97 | 1                         |
| PARAMETER                     | DET. LIMIT     |               | UNITS       |              | 1        |                           |
| Slyrana                       | 1.0            | < 1.0         | up/L        |              |          | and the second difference |
| Bromoform                     | 1,0            | < 1.0         | VOL         |              | 1        |                           |
| 1.1.2.2-Tetrachloroethane     | 1.0            | < 1.0         | ug/L        |              |          |                           |
| 1,2,3-Trichioropropens        | 1.0            | < 1, <b>0</b> | ug/L        |              |          |                           |
| hopropyi Senzena              | 1.0            | < 1.0         | ugil        |              |          |                           |
| Bromobenzene                  | 1.0            | < 1.0         | ug/L        |              |          |                           |
| trans-1,4-Dichloro-2-Butene   | 1.0            | < 1.0         | ug/L        |              |          |                           |
| n-Propylbenzene               | 1.0            | ◄ 1.0         | ug/L        |              | l.       |                           |
| 2-Chlorololuene               | 1.0            | < 1.0         | ug/L        |              |          |                           |
| 4-Chlorototuene               | 1.0            | < 1.0         | UGAL        |              |          |                           |
| 1,3,5-Trimsthylbenzene        | 1.0            | < 1.0         | ug/L        |              |          |                           |
| tert-Butylbanzana             | 1.0            | < 1.0         | ug/L,       |              |          |                           |
| 1,2,4-Trimathylbenzene        | 1.0            | < 1.0         | ugiL        |              |          |                           |
| sec-Buiyibenzene              | * <b>1.0</b>   | < 1.0         | ug/L        |              |          |                           |
| 1,3-Dichlorobensene           | 1.0            | < 1.0         | ug/L        | l            |          |                           |
| 1.4-Dichlorobenzene           | 1.0            | < 1.0         | ug/L        |              |          |                           |
| p-isopropykaluene             | 1.0            | < 1.0         | ug/L        |              |          |                           |
| 1.2-Dichloroberizene          | 1.0            | < 1.0         | ug/L        |              |          |                           |
| n-Bulyibenzene                | 1.0            | < 1.0         | ug/L        | 1            |          |                           |
| 1.2-Dibromomo-3-chioropropena | 1.0            | < 1,0         | ug/L        |              |          |                           |
| 1,2,4-Trichloropenzene        | 1.0            | ≪ 1.0         | ugit        |              |          |                           |
| Napihaléne                    | 1.0            | < 1.0         | ug/L        |              |          |                           |
| Hexachiorobutadiane           | 1.0            | < 1.0         | ug/L        |              |          |                           |
| 1.2.3-Trichlorobenzene        | 1.0            | < 10          | ug/L        |              |          |                           |

#### SAMPLE WAS COLLECTED IN AN UNPRESERVED PLASTIC CONTAINER WITH APPROX. 1/3 OF HEADSPACE (DS0) = 50 X DILUTION, ANALYZED ON 10/17/97

| SURROGATE % RECOVERY  |              |
|-----------------------|--------------|
| 1.2-Dichloraethene-d4 | 105          |
|                       | ( 80 - 120 ) |
| Toluene-d8            | 101          |
|                       | ( 58 - 110 ) |
| Bramafluarabenzene    | 102          |
|                       | (88-115)     |
|                       |              |

5/7'd 0CT-27-97 MON 10:18

## American Environmental Network, Inc.

### GC/MS RESULTS

| CLIENT                                            | : VOLATILE ORGAN |                |         | T   | AENID      | . !      | 710348   |
|---------------------------------------------------|------------------|----------------|---------|-----|------------|----------|----------|
| PROJECT #                                         | : (none)         |                |         | DAT | E RECEIVED | ):       | 10/10/97 |
| PROJECT NAME                                      | ; (none)         |                |         | 1   |            |          |          |
| SAMPLE                                            |                  |                | DATE    |     | DATE       | DATE     | DIL.     |
| 0#                                                | CLIENT ID        | MATRIX         | SAMPLED | Ext | RACTED     | ANALYZED | FACTO    |
| 710346-02                                         | AQ SAMPLE        | AQUEOUS        | Unknown |     | N/A        | 10/15/97 |          |
| PARAMETER                                         | DET. LIMIT       |                | UNITS   |     |            |          |          |
|                                                   |                  |                |         |     |            |          |          |
| Dichlonodifluoromethane                           | 1.0              | < 1.0<br>- 1.0 | ug/L    |     |            |          |          |
| Chloromethane                                     | 1.0              | < 1.0<br>< 1.0 | ug/L    |     |            |          |          |
| Vinyi Chioride                                    | 1.0              | •              | ugiL    |     |            |          |          |
| Sromomethene                                      | 1.0              | < 1.0          | Ug/L    |     |            |          |          |
| Chioroethane                                      | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| Trichlorofluoromethana                            | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| Acatone                                           | 10               | 728 (050)      | ugit    |     |            |          |          |
| Acrolain                                          | 5.0              | < 5.0          | ugh     |     |            |          |          |
| 1,1-Dichloroethene                                | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| odomelhane                                        | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| Vethylene Chlorida                                | 1.0              | < 1.0          | ugh     |     |            |          |          |
| Acryionitrile                                     | \$.0             | < 50           | ug/L    |     |            |          |          |
| au-1,2-Dichloroethene                             | 1.0              | < 10           | ug/L    |     |            |          |          |
| Nethyi-t-butyl Ether                              | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| 1, 1, 2, 1, <b>2, 2-7</b> richlorotnifluoroethane | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| 1.1-Dichloroethene                                | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| rans-1,2-Dichleroelhene                           | 1.0              | ≪ 1.0          | ug/L    |     |            |          |          |
| 2-Sutandhe                                        | 10               | 40             | ug/L    |     |            |          |          |
| Cerbon Disulfide                                  | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| Bramachioromethane                                | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| Chieroform                                        | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| 2,2-Dichloropropana                               | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| 1,2-Dichleroethane                                | 1.0              | ≤ 1.0          | ug/L    |     |            |          |          |
| Vinyl Acetate                                     | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| 1.1.1-Trichlorgethane                             | 1.0              | < 1.0          | با/وں   |     |            |          |          |
| 1,1-Dichloropropene                               | 1.0              | < 1.0          | ug/L    | -   |            |          |          |
| Carbon Tetrechioride                              | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| Banzene                                           | 1.0              | 2.4            | ug/L    |     |            |          |          |
| 1,2-Dichloropropene                               | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| Trichloroethene                                   | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| Bromodichloromethane                              | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| 2-Chioroathyl Vinyl Ether                         | 10               | < 10           | Ug/L    | 1   |            |          |          |
| sis-1,3-Dichloropropene                           | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| rene-1,3-Dichioropropene                          | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| 1, 1, 2-Trichlorosthane                           | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| +.3-Dicitioropropene                              | 1.0              | 4 1,0          | ug/L    |     |            |          |          |
| Dibromomethane                                    | 1.0              | < 1.0          | ug/L    |     |            |          |          |
| Toluene                                           | 1.0              | 1.3            | ug/L    | 1   |            |          |          |
| 1.2-Dibromoethane                                 | 1.0              | 4 1 0          | ug/L    |     |            |          |          |
| -Mennyl-2-Pentanone                               | 10               | < 10           | ug/L    |     |            | •        |          |
| 2-Hexamone                                        | tÖ               | < 10           | ug/L    |     |            |          |          |
| Dibromochloromalhana                              | 1.0              | < 1.0          | սք/ե    |     |            |          |          |
| Tetrachioroethene                                 | 1.0              | 4 1.0          | ug/L    |     |            |          |          |
| Chlorobenzene                                     | 1.0              | <b>4 10</b>    | ug/L    |     |            |          |          |
| Ethylbenzene                                      | 1.0              | < 1.Q          | ug/L    | 1   |            |          |          |
| 1.1.1.2-Tetrachioroelhane                         | 1.0              | <b>4</b> 1.0   | ug/L    | 1   |            |          |          |
| måp Xylenes                                       | 1.0              | < 1.0          | ug/L    | 1   |            |          |          |
| c-Xylené                                          | 1.0              | < 1,0          | ug/L    | 1   |            |          |          |

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## ANALYTICAL REPORT

Kim McNeill AEN - Albuquerque 2709-D Pan American Fwy NE Albuquerque, NM 87107 10/23/1997 Job No.: 97.02750

Page: 2

#### Project Name: 710346-02 City Of Carisbad Date Received: 10/17/1997

Sample Number Semple Description 46513 AQ Sample (710346-02)

| PARAMETERS               | H\$776008 | ARST-TS | BEFORT LINET | <u>98175</u> | DATE ANALYZED | ELAG   |
|--------------------------|-----------|---------|--------------|--------------|---------------|--------|
| ICP/AA Digestion - Water | XCP       | -       |              |              | 10/30/1997    |        |
| Antimony, ICP            | 6010      | , MED   | 0.05         | rig / L      | 10/20/1997    | bil,g  |
| Arsenic, 1CP             | 2070      | 0.071   | 0.05         | mg/L         | 10/20/1997    | DIL,Q  |
| Seryllium. ICP           | 6010      | MD-     | ê.02         | mg/L         | 10/20/1997    | DIL.Q  |
| Cadmaum, ICP             | 6010      | סא      | ¢.03         | mg/1         | 10/20/1997    | DIL, O |
| Chronium, ICP            | 6018      | 0.13    | 9.05         | mg/L         | 10/20/1997    | DÍL.Q  |
| Copper, ICP              | 6010      | 0.14    | đ.os         | mg/1,        | 10/20/1997    | DIL,Q  |
| Land. ICP                | 6010      | 0.12    | 0.05         | mg/L         | 10/20/1997    | ott,c  |
| Mezcury Prep (W)         | 7476      | -       |              |              | 10/20/1997    |        |
| Marcury, CV (N)          | 7470      | 6.026   | 0.002        | mg/L         | 10/33/1997    | DTL.O  |
| Nickel, ICP              | 6029      | 9.092   | 0.0\$        | mg/S         | 10/20/1947    | DIL.Q  |
| Selenium. ICP            | 6010      | ¥0      | a.95         | mg/1         | 10/20/1997    | DIL, Q |
| Silver, ICP              | 6010      | ND .    | Q.05         | thg/L        | 10/20/1997    | DIL, C |
| Thallium, ICP            | 6010      | СN СN   | 0.1          | mg/L         | 10/20/1997    | díl, q |
| Sine, ICP                | 6010      | 1.5     | 6.95         | mg/1         | 10/20/1997    | DIL.Q  |

A sample result of MD indicates the parameter was Not Detected at the seporting limit.

American Environmental Macwork, Inc. (503) 684-0467 (503) 630-0393 93X 17400 SM Upper Boones Perry Rd., Suice 270, Possiand, OR 17324

Sample SALTY Bill

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0CT-27-97 MON

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