# 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 UO 7 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 H 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
rue 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	
H6882-1 SB #1	0	0	238	3334	2772	-
Quality Control	NR	NR	1016	1451	NR	-
True Value QC	NR	NR	1000	1413	NR	1
% Recovery	NR	NR	102	103	NR	
Relative Percent Difference	NR	NR	13.6	0.1	8.8	
METHODS: EPA 600/4-79-02	-	-	-	120.1	160.1	
Standard Method	2320 B	2320 B	2320 B	-	-	

Amy Hill Chemist

-13 F

1.1

-02 Date

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† Cardinal ennot	Sampler - UPS - Bus	Delivered By: (Circ	Relinquished By:	Jan II	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	Project Location:	Project Name: Sali	Project #: Suace	Fax #: 2 - 69	Phone # 2. 223	city: Holms	Address: (an 1 U	Project Manager: E	Company Name: E		ARDIN	मे
accept verbal changes.	- Other:	le One)	Date:	Ang Time:	Date: 7	she for incidental or consequental damag related to the performance of services he	<ul> <li>Cardinate labitly and ollerit's exclusive in negligence and any other cause whatsoer</li> </ul>						1 # 8		Sample I.D.		whichard N.M	£ 5.11	D. Project Owner	49	5	State: NW Zip	2. III. 12	led ier in Sala	die Soon	(915) 673-7001 Fax (1	AL LABORATO	
Please fax written chanç		Sample Condit	Received By: (		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	≪ <b>#</b> G S S O S	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	11e, 1 A 7 9003 101 E3 915) 673-7020 (505)	RIES, INC.	
jes to 915-673-7020.		PN CHECKED BY:	Lab Staff $1 $			xemuptions, loss of use, or loss of profits i er such claim is based upon any of the abo	ed in contract or tort, shall be finited to the In writing and received by Cardinal within 3					•	1/1/15			PRES. SAMPLI	Fax #:	Phone #:	State: Zhp:	City:	Address:	Attn:	Company:	BULTO PO#		ast Mariand, Hobbs, N 393-2326 Fax (505) 39		
D			Grace -	REMARKS:	Phone Result  Yes Fax Result:  Yes	nourred by client, its subsidiaries, we stated reasons or otherwise.	amount paid by the client for the 30 days after completion of the applicat								TPH Gen Cha		01.	$s_{rad}$	   							3-2476	<u>CI II 111</u>	CHAIN
		-	Selly 3.1	•	No Additional Fax #:     No	and all costs o	Je Terms and C 30 days past		 																ANALYSI			-OF-CUSTODY
			ME	-		of collections, including attorney's fees.	onditions: interest will be charged on a due at the rate of 24% per annum from (																		S REQUEST	Page		AND ANAI YSI
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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 6 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 Rd, 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 SAMPLE ID	P-Alkalinity (mg/L)	T-Alkalinity (mg/L)	Hardness (mg/L)	Chloride (mg/L)	Sulfates (mg/L)	рН (s.u.)
ANALYSIS DATE	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
Quality Control	NR	NR	41	1050	50.20	6.91
True Value QC	NR	NR	50	1000	50.00	7.00
% Recovery	NR	NR	82.0	105	100	98.7
Relative Percent 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 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	
	NR	NR	1068	1322		
	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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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

	GRO	DRO			ETHYL	TOTAL
LAB NUMBER SAMPLE ID	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE	BENZENE	XYLENES
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ANALYSIS DATE:	01/22/03	01/22/03	01/23/03	01/23/03	01/23/03	01/23/03
H7422-1 MW # <b>3</b>	<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.

OF-CUSTODY AND ANALYSIS REQUEST	Page of	ANALYSIS REQUEST					5	BILL IG		my 2	ризд На На (3 18			Terms and Conditions. Interest will be cherced on all accents more than	the second se	uit: 🗆 Yes 🗖 No Add" Phone #: 🗇 Yes 🗇 No Add" Fax #:			
CHAIN	nd, Hobbs, NM 88240 Fax (505) 393-2476		P.O. # Compa <del>ly:</del>	Attn:	Address:	CHY:	State: Zip:	Phone #:	Fax <del>å</del> :	X PRESERV SAMPLING	SLUDGE OTHER : OCHER : OCH COOL OTHER : A M	1/20 13:45		at or tort shell be immed to the emocard and hu the diert for the	nd received by Cardinate to state antanate parts by an address of the application of the application of the application (a loss of days) of the application of the ap	Phone Result: Fax Result: REMARKS:	Stam HA ANA	ndition CHECKED BY: ndition CHECKED BY: (Initials) No	
	RDINAL LABORATORIES, INC.     11 Beechwood, Abilene, TX 79603   101 East Mariai     (915) 673-7001 Fax (915) 673-7020   (505) 393-2326	Eddie Sean Consultin.	Eddie Le Burn	State: NM ZIP: \$1247	2236 Fax#:	Bill Project Owner: C. Grace	Salty Bull Digged	(M. N. Wardstrad)	Elder W San		CRUDE OIL CRUDE OIL SOIL SOIL CRUDE OIL	m.) #3		Dumences. Cardinatis, lability and dijetitis, and taken remedy for any calamarian whether based in ontra	here iteratives and any other cause whethere staff be deemed whether staff be here iteratives and the inviting a The staff of the staff of the staff of consequent damages because iteratives iteratives iteratives in and a for staff of the staff of the staff of states because iteratives iteratives and the states of the staff of	shed: Date: Date: 22 Received By: Time: 2:20	Date: Received By: (Lab	(Circle One) Circle One) Circle One) Circle One) Circle One Circle	
le	A A A	<b>Company Name:</b>	Project Manager: Address: (eo )	City: 1 Julia	Phone #: 2 ~	Project #: Salt	Project Name:	Project Location:	Sampler Name:	FOR LAB USE ONLY	Lab I.D.	1-122/1		B FASE NOTE- 1 SAEV and	andynes. All claims including t service. In no event shall Card	Sampler Relinqui	Relinquished By:	Delivered Bv: Sampler - UPS -	

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

and the second se		
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
Relative Perce	ent Difference	6.0
	H6023-1 H6023-2 H6023-3 H6023-4 H6023-5 Quality Contro True Value QC % Recovery Relative Perce	H6023-1 B-1   H6023-2 B-2   H6023-3 P-1   H6023-4 S-1   H6023-5 S-2   Quality Control True Value QC   % Recovery Relative Percent Difference

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						
(A) Owner of Street or I	well U.S. Post Office Ad	Army (Now dress	City of	Carlsb	ad)		Own	er's Well	No	1		
City and S	State		·····		··· <del>····</del>							
Well was drilled	under Permit	No. <u>C-85</u>	3	26	and i	is located in	n the:					
aNE	<u> </u>	<u></u> 1⁄4	WW ¼ of Sec	tion_30	Tov	wnship	<u> </u>	ange	10 E	<u>N.M.P.M</u> .		
b. Tract M	No	of Map No.			f the	·						
c. Lot No Subdiv	ision, recorded	of Block No 1 inEdd	у		f the County							
d. X= the		_ feet, Y=		fee	t, N.M. Co	ordinate Sy	/stem			Zone in Grant.		
(B) Drilling C	ontractor	Brininsto	01				License No					
Addresse										<u></u>		
Delli a Deserve		<u></u>	July	v. 1942								
Drilling Began _		Comp	3228 ]		Type	e tools		Si	ze of hole_ 300			
Elevation of lan	id surface or _			a	t well is	<u> </u>	. ft. Total dept	h of wel	1	ft.		
Completed well	is 🗆 si	hallow 🗔 a	rtesian.		Depth	to water u	ipon completio	on of wel	11	ft.		
Danth	in East	Sec	tion 2. PRIN	CIPAL WA	ATER-BEA	RING STR	RATA					
From	To	in Feet	I	Description	n of Water-	Bearing Fo	rmation	tion (gallons per minute)				
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Diamatan	Davada	1 50	Section	n 3. RECC	ORD OF C	ASING			Deaf			
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From	То	Diameter	of M	uđ	of Cem	ent						
		+										
<u> </u>	<b>.</b>	·· F	Sectio	on 5. PLU	GGING RE	ECORD	<u></u>			<u> </u>		
Plugging Contr	actor			·····								
Address Plugging Metho	od					No.	Depth	in Feet Bott	om	Cubic Feet of Cement		
Date Well Plug	ged						<u> </u>					
r nugging appro	vea by:					$\frac{2}{3}$						
		State Eng	gineer Repres	sentative	-	4						
			FOR USE	OF STAT	TE ENCIN	FER ONI	v					

Date Received

C-853

Use.

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

File No.\_

\_\_\_\_ Location No.\_\_22.26.36.111214\_
*	_		Section 6. LOG OF HOLE
Depth	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								Revised	105 1-1-65
ANTA FE	- 1		NEWN			COMMISSION	ſ	5a. Indicate	Type of Lease
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s.g.s.	35			• •			1	5. State Off	Gas Lease No.
AND OFFICE				MAY	6 197		Ł	D (10-4	1.00
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NEW I			PLUG						Camlabad Cam
Name of Operator		DEEPEN	BACK	LI RESVR. L	OTHER			9. Well No.	Carisbad voi
rinne Grace								ו	
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9/15/70	1/2			3/2/71		3226 DF	3206.	<u>g</u> .	Cable Tool-
	• •	ci. Piug Ba	ск I.D.	Many	ie Compl., How	Drilled B	y i	-1001s	
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Type Electric and (	Other Logs	Run						27. Wc	us Well Cored
Gamma Ray, N	eutron	, Micro	-Laterlo	g, Laterolo	g, Acousti	log			No
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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*) ow Tubing Press.	WEIGH	Production Production Production Production Production Production Production Production Production	DEPTH 364 5421 11,969 RECORD BOTTOM BOTTOM Wethod (Flow B Choke Size	PROI	LE SIZE 17 1/2 11 3/4 7 7/8 SCREEN 32. A DEPTH II 11,566-5 DUCTION ping - Size and Oil - Bbl. Ng Gas - MC	CEMENT 500 1650 1650 1025 30. SIZE 27/8 CID, SHOT, FRA NTERVAL 572 type pump) Gas - MCF 3107*	T T DEF 11, CTURE, C AMOU None Wate	Well Status Well Status Shot In T - Bbl. D24	AMOUNT PULL none none none PACKER SET 11,529 JEEZE, ETC. D MATERIAL USED 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* bw Tubing Press. 572	WEIGH	Production Production Production	DEPTH 364 5421 11,969 RECORD BOTTOM BOTTOM ber) ber) Choke Size Calculated 24 How Rate	PROD PROD PROD ving, gas lift, pum Prod'n. For Test Period - Oil - Bbl.	LE SIZE 17 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	CEMENT 500 1650 1025 30. SIZE 2.7/8 CID, SHOT, FRA NTERVAL 572 type pump) Gas - MCF 3107* CF Wate	T T DEF 11, CTURE, C AMOU None Wate	Well Status Well Status Shut In r - Bbl. 32* Oil	AMOUNT PULL none none none none PACKER SET 11;529 JEEZE, ETC. D MATERIAL USED Gas - Oil Ratio TSTM Gravity - API (Corr.,
CASING SIZE 13 3/8 8 5/8 5 1/2 SIZE 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# 1 TOP (Interval, s 572 Hours Te 21: Casing F Pk (Sold, used	IT LB./FT.	DEPTH 364 5421 11,969 RECORD BOTTOM BOTTOM ber) ber) Choke Size Calculated 24 Hour Rate	PROF PROF PROF PROF PROF Prod'n. For Test Period Oil – Bbl.	LE SIZE 17 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 500 1650 1025 30. SIZE 2.7/8 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA NTERVAL CID, SHOT, FRA NTERVAL	T T DEF 11, CTURE, C AMOU None Wate 1( r - Bbl.	Well Status Shut In r - Bbl. 32# Witnessed B	AMOUNT PULL none none none PACKER SET 11,529 JEEZE, ETC. D MATERIAL USED Gas - Oil Ratio TSTM Gravity - API (Corr.,
CASING SIZE 13 3/8 8 5/8 5 1/2 SIZE Perforation Record 11,566 - 11, ite First Production /2/71 ite of Test /2/71* ow Tubing Press. 573 Disposition of Gds be sold	WEIGH	Production Production Production Production Plowin sted	DEPTH 364 542( 11,96 RECORD BOTTOM BOTTOM ber) ber) ber) check Size Calculated 24 How Rate	PROI	LE SIZE 17 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 500 1650 1025 30. SIZE 2.7/8 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA SIZE CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA SIZE CID, SHOT, FRA SIZE SIZE CID, SHOT, FRA SIZE CID, SHOT, SIZE CID, SHOT,	T DEF DEF 11, CTURE, C AMOU None Wate 1( r - Bbl.	Well Status Sint In T - Bbl. Cill Witneased B	AMOUNT PULL none none none PACKER SET 11,529 JEEZE, ETC. D MATERIAL USED Gas - Oil Ratio TSTM Gravity - API (Corr., y
CASING SIZE 13 3/8 8 5/8 5 1/2	WEIGH	IT LB./FT.	DEPTH 364 5421 11,969 RECORD BOTTOM BOTTOM BOTTOM BOTTOM Record Calculated 24 How Rate	PROI Ding, gas lift, pum Prod'n. For Test Period Oil – Bbl. <b>#From Las</b>	LE SIZE 17 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 CAOF 10,59	CEMENT 500 1650 1650 1025 30. SIZE 2.7/8 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA SIZE 2.7/8 CID, SHOT, SIZE 2.7/8 CID, SIZE 2.7/8 CID, SHOT, SIZE 2.7/8 CID, SIZE 2	T T DEF 11, CTURE, C AMOU Nons Wate 1( r - Bbl.	Well Status Shut In Witnessed B	AMOUNT PULL none none none PACKER SET 11,529 JEEZE, ETC. D MATERIAL USED Gas - Oil Ratio TSTM Gravity - API (Corr., y
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 List of Attachments Copy electri	WEIGH 51 33 17# TOP (Interval, s 572 Hours Te 21 Casing F Casing F (Sold, used B Casing F	IT LB./FT.	DEPTH 364 542( 11,969 RECORD BOTTOM BOTTOM BOTTOM Record BOTTOM Record Calculated 24 How Rate	PROI SACKS CEMENT SACKS CEMENT SACKS CEMENT Prod'n. For Test Period Oil - Bbl. Prom Las	LE SIZE 17 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 CAOP 10,59	CEMENT 500 1650 1025 30. SIZE 2 7/8 CID, SHOT, FRA NTERVAL 572 type pump) Gas - MCF 3107* CF Wate 0 int Test 9 MCFPD	T T DEF 11, CTURE, C AMOU None Wate 1( T - Bbl. Test	Well Status Shut In Witnessed B	AMOUNT PULL <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b></b>
CASING SIZE 13 3/8 8 5/8 5 1/2 SIZE Perforation Record 11,566 - 11, tte First Production (2/71 tte of Test (2/71# ow Tubing Press. 573 Disposition of Gds be sold . List of Attachment: COpy electri . I hereby certify that	WEIGH 51 33 17# TOP (Interval, s ,572 Hours Te 21, Casing F Pk (Sold, used s c 10gs ut the inform	Production Production Production Production Production Prossure I for fuel, ve	DEPTH 364 5421 11,969 RECORD BOTTOM BOTTOM BOTTOM BOTTOM Record (Flow B Choke Size Calculated 24 How Rate	PROD SACKS CEMENT SACKS CEMENT SACKS CEMENT Prod'n. For Test Period Oli – Bbl. From las	LE SIZE 17 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 CAOP 10,59 rue and complete	CEMENT 500 1650 1025 30. 512E 27/8 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA SIZE 27/8 CID, SHOT, FRA SIZE 297 CID, SHOT, FRA SIZE 297 CF SIZE 297 SIZE 207 SIZE SIZE 207 SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE	T T DEF 11, CTURE, C AMOU None Wate 10 r - Bbl. Test	Well Status Shot In Well Status Shot In r - Bbl. 32* Witneased B ge and belief.	AMOUNT PULL <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>NONE</b> <b>PACKER SET</b> <b>11,529</b> JEEZE, ETC. D MATERIAL USED Gas - Oil Ratio <b>TSTM</b> Gravity - API (Corr., Y
CASING SIZE 13 3/8 8 5/8 5 1/2 SIZE Perforation Record 11,566 - 11,	WEIGH SI 33 17# 1 TOP (Interval, s 572 Hours Te 21. Casing F Pk (Sold, used s e logs at the inform	Production Production Production Plowin isted for fuel, ve nation shown ) / /i	DEPTH 364 5421 11,969 RECORD BOTTOM BOTTOM BOTTOM Choke Size Calculated 24 How Rate Calculated 24 How Rate	PROD SACKS CEMENT SACKS CEMENT SACKS CEMENT Prod'n. For Test Period Oil – Bbl. From Las S of this form is to	LE SIZE 17 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 CAOP 10,59 rue and complete	CEMENT SOC 1650 1650 1025 30. SIZE 2.7/8 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA SIZE CID, SHOT, FRA SIZE S	T T DEF 11, CTURE, C AMOU None Wate 1( r - Bbl. Test	Well Status Shot In Well Status Shot In Witnessed B ge and belief.	AMOUNT PULL none none none PACKER SET 11,529 JEEZE, ETC. D MATERIAL USED (Prod. or Shut-in) 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 SI 33 17# 1 TOP (Interval, s 572 Hours Te 21; Casing F Pic (Sold, used s c logs t the inform mark	IT LB./FT.	DEPTH 364 5424 11,969 R RECORD BOTTOM BOTTOM ber) ber) checked (Flow B Choke Size Calculated 24 How Rate calculated 24 How Rate	PROI SACKS CEMENT SACKS CEMENT SACKS CEMENT Proof n. For Test Period Oil – Bbl. From Las s of this form is the TITLE	LE SIZE 17 1/2 11 3/4 7 7/8 SCREEN 32. A DEPTH II 11,566-5 DUCTION ping - Size and OII - Bbl. 0II - Bbl. Cas - MC t rate 4-P CAOF 10,59 The and complete Agent	CEMENT CEMENT 500 1650 1025 30. SIZE 2.7/8 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA SIZE 2.7/8 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA NTERVAL 572 CID, SHOT, FRA SIZE 2.7/8 CID, SHOT, SHOT, STA SIZE 2.7/8 CID, SHOT, SHOT, STA SIZE 2.7/8 CID, STA SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE	T T DEF 11, CTURE, C AMOU None Wate 1( T - Bbl. Test	Well Status Shut In Witnessed B ge and belief.	AMOUNT PULL none none none PACKER SET 11,529 JEEZE, ETC. D MATERIAL USED Gas - Oil Ratio TSTM Gravity - API (Corr., y

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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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1.	Anny	1.		1.		1.	Feinr D
т.	Salt	T.	Strawn	Т.	Kirtland-Fruitland	Т.	Penn. "C"
B.	Salt	Т.	Atoka 10,872	Т.	Pictured Cliffs	Т.	Penn. ''D''
т.	Yates	Т.	Morrow 11,420	Т.	Cliff House	Т.	Leadville
т.	7 Rivers	Ţ,	Devonian	Т.	Menefee	Т.	Madison
т.	Queen	Т.	Silurian	т.	Point Lookout	Т.	Elbert
Т.	Grayburg	<b>T</b> .	Montoya	Т.	Mancos	Т.	McCracken
т.	San Andres	T.	Simpson	Т.	Gallup	т.	Ignacio Qtzte
т.	Glorieta	т.	МсКее	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	T.	Delaware Sand	Т.	Entrada	Т.	
т.	Аbo	Т.	Bone Springs Lime 5348	Т.	Wingate	т.	
т.	Wolfcamp 8915	т.	Bone Springs 5d 6318	Т.	Chinle	т.	
т.	Penn.	Т.		Т.	Permian	т.	
т	Cisco (Bough C)	Т.		Т.	Penn. ''A''	Т.	

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

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3 5 7 19 20 54 63 66 69 71 84 114 117	0 65 80 40 1 20 5 10 6 30 6 10 6 30 6 10 6 30 11 70 11 60 11	365 580 740 900 020 410 330 610 900 110 430 470 760 934	365 215 160 1160 120 3390 920 280 290 210 1320 3040 290 174	Surface Sand & Red Bed Anhydrite Salt & Anhydrite Anhydrite Lime & Anhydrite Lime & Anhydrite Lime & Shale Sand, Shale & Lime Lime & Shale Lime, Sand & Shale Lime & Shale Shale & Lime Sand & Shale Lime, Shale & Sand				· · · · · · · · · · · · · · · · · · ·
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2/11/72	4/2/72	<u> </u>	+/: { < 						
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Micro-La	retorog, 1	Lagerorog, (	Jamma It	ay 100					
8.		CA	SING RECO	RD (Rep	ort all string	s set in well)			
CASING SIZE	WEIGHT LB	./FT. DEPT	HSET	HOL	ESIZE	CEME	NTING REC	DRD	AMOUNT PULLE
<u>13 3/8</u>	48#		2		17	400 sks 0			circi.
9 5/8	10# & 30	<u>575 5200</u>	<u>)                                    </u>		12 1/4	1050 sks	& 150 SK	S UL. "	• · · · · · · · · · · · · · · · · · · ·
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9.	I	LINER RECORD	_ <del></del>			30.	1	UBING RE	CORD
A	TOP	BOTTOM	SACKS C	EMENT	SCREEN	SIZE	DE	PTH SET	PACKER SET
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SIZE	10,634	1 11,0/2		1				(71)	
51ZE J <sub>1</sub> 1/2	10,634	11,012	<u>L</u>	<u></u>		2 3/8			
SIZE	10,634 Interval, size an	id number)		L	32.	2 3/8 ACID, SHOT,	FRACTURE,	CEMENT S	QUEEZE, ETC.
512E 1. Perforation Record ( 111,86-88	10,634 Interval, size an (8 shots)	11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 11,075 10,075	( 8 sh		32. DEPTH	2 3/8 ACID, SHOT, INTERVAL	FRACTURE,	CEMENT S	QUEEZE, ETC.
512E 1. Perforation Record ( 11486-88 11490-96 (2	10,634 Interval, size an (8 shots) 14 shots)	11511-14	( 8 sh (12 sh	iots)	32. DEPTH Nor	2 3/8 ACID, SHOT, INTERVAL	FRACTURE,	CEMENT S	QUEEZE, ETC.
512E 1. Perforation Record 11486-88 11490-96 (2 11498-05 (2	10,634 Interval, size an (8 shots) 24 shots) 21 shots)	11,075 11,075 11524-26 11511-14	( 8 sh (12 sh	lots≬ lots)	32. DEPTH NOT	2 3/8 ACID, SHOT, INTERVAL	FRACTURE,	CEMENT S	QUEEZE, ETC.
size <u>1</u> 1/2 1. Perforation Record ( 11486-88 11490-96 (2 11498-05 (2 11507-09 (	10,634 Interval, size an (8 shots) 24 shots) 21 shots) 8 shots)	11,075 11,5214-26 11,5214-26 11,511,-114	( 8 sh (12 sh	iots≬ iots)	32. Depth Not	2 3/8 ACID, SHOT, INTERVAL	FRACTURE, AMOU NC	CEMENT S	QUEEZE, ETC.
size 1. Perforation Record ( 11486-88 11490-96 (2 11498-05 (2 11507-09 ( 11516-22 (2)	10,634 Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 8 shots) 8 shots)	11,075 11524-26 11511-14	( 8 sh (12 sh	iots≬ iots)	32. DEPTH NOT	2 3/8 ACID, SHOT, INTERVAL	FRACTURE, AMOU NC	CEMENT S	ULEEZE, ETC.
size <u>1 1/2</u> 1. Perforation Record ( 114,86-88 114,90-96 (2 114,98-05 (2 11507-09 ( 11516-22 (2) 3.	10,634 Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 18 shots)	11,075 11521,-26 11511,-14	( 8 sh (12 sh	nots nots)	32. DEPTH NOT	2 3/8 ACID, SHOT, INTERVAL	FRACTURE, AMOU NC	CEMENT S	ULEEZE, ETC.
size <u>J. 1/2</u> 1. Perforation Record ( 114,86-88 114,90-96 (2 11498-05 (2 11507-09 ( 11516-22 (2 3. ate First Production	10,634 Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 18 shots) 18 shots)	uction Method (Fla	( 8 sh (12 sh wing, gas l	PRODI	32. DEPTH NOT UCTION ing - Size ar	2 3/8 ACID, SHOT, INTERVAL IC d type pump)	FRACTURE, AMOU NC	CEMENT S UNT AND K ONC	UEEZE, ETC.
size ), 1/2 1. Perforation Record ( 11486-88 11490-96 (2 11498-05 (2 11507-09 ( 11516-22 (2 3. Jate First Production	10,634 Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 8 shots) 18 shots)	uction Method (Flo	( 8 sh (12 sh wing, gas l ing	PRODI	32. DEPTH NOI UCTION ing - Size ar	2 3/8 ACID, SHOT, INTERVAL IC d type pump)	FRACTURE, AMOU NC	CEMENT S UNT AND K DINE Well Stat	UUEEZE, ETC. IND MATERIAL USED
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size J <sub>1</sub> 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	10,634 Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 8 shots) 18 shots) Hours Tested 4	uction Method (Flow Choke Size	( 8 sh (12 sh wing, gas l ing Prod'n. Test Pe	PRODI	32. DEPTH NOT UCTION ing - Size ar Oil - Bbl. O	2 3/8 ACID, SHOT, INTERVAL IC d type pump) Gas - MC + 852	FRACTURE, AMOU NC	CEMENT S INT AND K DRC Well Stat S r - Bbl. O	QUEEZE, ETC. IND MATERIAL USED Jus (Prod. or Shut-in) hut-In Gas-Oll Ratio TSTM
size 1. Perforation Record ( 11486-88 11490-96 (2 11498-05 (2 11507-09 ( 11516-22 (2 3. ate First Production ate of Test 7/7/72 low Tubing Press.	10,634 Interval, size an (8 shots) 24 shots) 21 shots) 8 shots) 8 shots) 18 shots) 18 shots) 19 rod Hours Tested 4 Casing Pressu	uction Method (Flow Choke Size	( 8 sh (12 sh (12 sh wing, gas l ing Prod'n. Test Pe 4- OII - B	PRODI	J2. DEPTH NOT UCTION ing - Size ar OII - Bbl. O Gas - 1	2 3/8 ACID, SHOT, INTERVAL 12 d type pump) Gas - MC   * 852 MCF	FRACTURE, AMOU NC	CEMENT S INT AND K DINE Well Stat K - Bbl. O	UUEEZE, ETC. UND MATERIAL USED UUE (Prod. or Shut-in) hut -In Gas - Oil Ratio TSTM II Gravity - API (Corr.)
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size 1, 1/2 1. Perforation Record ( 11486-88 11490-96 (2 11498-05 (2 11507-09 ( 11516-22 (2 3. Tate First Production ate of Test 7/7/72 low Tubing Press. 1595.0 4. Disposition of Gas ( To be 5. List of Attachments 5. I hereby certify than	10,634 Interval, size an (8 shots) 14 shots) 21 shots) 8 shots) 8 shots) 18 shots) Prod Hours Tested 4 Casing Pressue Pkr. Sold Logs list thethformation	II,0(2 II,0(2 II,2),-26 II,52,-26 II,511,-1, II,511,-1, Uction Method (Fic Flow Choke Size re Calculated 2 Hour Rate iel, vented, etc.) CAOF 11, ;ed above shown on bath fid	( 8 sh ( 12 sh))))))))))))))))))))))))))))))))))))	PRODI PRODI Ift, pumpi For sriod DI. rom la	32. DEPTH NOT UCTION ing - Size ar OII - Bbl. () Gas - I ast rate e and comple Age n	2 3/8 ACID, SHOT, INTERVAL BE d type pump) Gas - MC   * 852 ACF 4-point  te to the best o t	IL: FRACTURE; AMOU NC NC CF Wate 7 Vater Bbl. test Test	CEMENT S JNT AND K DRC Well Stal St - Bbl. O Witnessed ge and beli	QUEEZE, ETC. IND MATERIAL USED USE (Prod. or Shut-in) hut-In Gas-Oil Ratio TSTM II Gravity - API (Corr.) By ef. arch 22, 1973
SIZE J <sub>1</sub> 1/2 1. Perforation Record ( 11486-88 11490-96 (2 11498-05 (2 11507-09 ( 11516-22 (2 3. ate First Production ate of Test 7/7/72 low Tubing Press. 1595.0 4. Disposition of Gas ( To be 5. List of Attachments 5. I hereby certify than SIGNED	10,634 Interval, size an (8 shots) 21 shots) 21 shots) 8 shots) 18 shots) 10,634 21 shots) 21 shots) 19 rod Hours Tested 4 Casing Pressue Pkr. Sold Logs list thethformation	II,0() II,0() II,521,-26 II,511,-11, II,511,-11, Uction Method (Fic Flow Choke Size re Calculated 2 Hour Rate iel, vented, etc.) CAOF 11, ;ed above shown on bath sid	( 8 sh ( 12 sh))))))))))))))))))))))))))))))))))))	PRODI PRODI Ift, pumpi For sriod DI. rom la	32. DEPTH NOT UCTION ing - Size ar OII - Bbl. () Gas - I Ist rate e and comple Age n	2 3/8 ACID, SHOT, INTERVAL BE d type pump) Gas - MC   * 852 ACF 4-point te to the best o t	IL: FRACTURE, AMOU NC NC CF Wate 7 Vater - Bbl. test Test	CEMENT S JNT AND K DRC Well Stal St - Bbl. O Witnessed ge and beli Mg DATE	UUEEZE, ETC. UND MATERIAL USED UUE (Prod. or Shut-in) hut-In Gas-Oll Ratio TSTM II Gravity - API (Corr.) By ef. arch 22, 1973

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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"
т.	Salt	Т,	Strawn	Т.	Kirtland-Fruitland	Т.	Penn. "C"
В.	Salt	т.	Atoka	Т.	Pictured Cliffs	. <b>T</b> .	Penn. "D"
т.	Yates	T.	Miss	Т.	Cliff House	Т.	Leadville
т.	7 Rivers	Т,	Devonian	Т.	Menefee	. т.	Madison
т.	Queen	Т.	Silurian	т.	Point Lookout	т.	Elbert
Т.	Grayburg	Т.	Montoya	<b>T</b> .	Mancos	Т.	McCrecken
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.	· · · · · · · · · · · · · · · · · · ·
т.	Аьо	Т.	Bone Springs	т.	Wingate	т.	· <u></u>
т.	Wolfcamp	Т.		т.	Chinle	. т.	
т.	Penn	Т.	·	Т.	Permian	. <b>T</b> .	
т	Cinco (Bough C)	r		m	Deen (All	m	

## FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet		ormation	
0	500	500	Surface Sand & Shale		1				
<b>500</b> 0	1680	1180	Salt-Anhy.			1	· .		
1680	2050	370	Lime & Sand					· .	
2050	4100	2050	Sand						• •
4100	5200	1100	Lime, Sand, Shale	La	mar Li	me		1828	
5200	6280	1080	Lime and shale	De	laware	Sand	1	1975	
6280	6800	520	Sand & Shale	Bo	ne Spi	ing		5340	
6800	7790	990	Lime and shale	ls	t Bone	Sprin	g Sand	6268	
7790	8120	330	Sand and shale	2r	d Bone	Sorin	g Sand	6803	
8120	9030	910	Lime and shale	3r	d Bone	Sprin	g Sand	8356	
9030	9550	520	Shale and Lime	Wo	lfcam		l de e	8740	
9550	10257	707	Shale Sand & Lime	Ci	sco-Ca	nyon		9945	1
10257	10850	610	Lime and shale	St	rawn		etic 5 h	10257	1
10850	11050	200	Limestone and shale	At	oka		19. N	10578	et et
11050	11100	50	Shale & Lime	. Mo	<b>ðro</b> w		e pañese p	11115	1.1
11100	11350	250	Lime and shale	Ba	rnett	· .	а.	11820	ļ
11350	11420	70	Lime and shale						1
11420	11875	455	Lime and shale						
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DISTRIBUTION				RE	CEIV	ED		ne <sup>-</sup>	vised ]-	1-65
SANTA FE		NEW	MEXICO	01L-CON	SERVATION	COMMISSION	્	Sa. Ind	icate Ty	pe of Lease
FILE	/_/ W	ELL COMPL	ETION O	RREC	OMPLETIO	REPORT	AND LOG	510		
.5,	2			St.	r 19 19	/0		5. 5.01		
LAND OFFICE								Salt	Mini	ng #M19264
OPERATOR					0. C. C.	•		V///	////	MMMMMM
19 ILLALLO	J Mine			AR	TESIA, OFF	CE		$\frac{1}{7}$	Aquean	ent Nrine
	9	[] 645	· · · ·	<b></b>				1. 0	ngreen	ent Mame
b. TYPE OF COMPLET	WELL	.L. WEL	L_J	DRYL	OTHER	Brine Wel	1	B. Farn	n or Lea	se ivane
NEW 1 WOR	··· []		· [_] •					C1		Comlaha d
2. Namerof Operator	R L DEEPEN			LSVR.	OTHER			9. Well	No.	Carisbau
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
UNIT LETTER H	LOCATED 24	20 FEET (	FROM THENC	orth	LINE AND	330	FEET FROM	$\overline{VIII}$	$\overline{\overline{(11)}}$	Millin ()
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THELAST LINE OF		VP. 225 RO	E. ZOE	NMPM				Ed	dy	
7-12-76	8-20 = 7	suchea 17. Date	-31 - 7	leudy 10 [	roa.j   18. E	ievations (DF,	<i>кы</i> , кг, (	, κ, etc.)	19, Ele	iv. Casninghead
20 Total Dapth	0-20-76		-31- / (	0 16 \ (1) 14 (m)			-l- Deter	Trala	L	Cable Tasla
930	21. 1149	Back I.D.	22.	Many	te Compt., Hov	Drille	By i	y 10018		
24. Producing Interval(s	), of this completi	on - Top. Botto	m. Name	×			>		125	Mas Directional Survey
	<i>"</i>								201	Made
Salt - 710'	S	alt 930'							No	
26. Type Electric and O	ther Logs Run				3				27. Was	Well Cored
ne									No	
28.		CA	SING REC	DRD (Rep	ort all strings	set in well)				
CASING SIZE	WEIGHT LB./	FT. DEPT	HSET	но		CEME	NTING REC	ORD		AMOUNT PULLED
8 5/8	32#	3501		1	3"	225 sx (	lass C	<i>c</i>		
5 1/2	14#	710'		7 7/	8"	150 sx 0	lass C	· · · · · · · · · · · · · · · · · · ·		
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29.		NER RECORD				30.	-5.52	 FUBING	RECORI	<u> </u>
29, SIZE	LI 10P	NER RECORD	SACKS	EMENT	SCREEN	30. SIZE		LUBING	RECORI	D _ T PACKER SET
29. SIZE		NER RECORD BOTTOM	SACKS	EMENT	SCREEN	30. 31. 23/8	  	TUBING PTH SE		PACKER SET
29. SIZE		NER RECORD BOTTOM	SACKS	EMENT	SCREEN	30. 31. 23/8	DE .9	IUBING PTH SE 261	RECORI	D _ T PACKER SET NO _ T
29, SIZE 31, Perforation Record (	LI TOP	NER RECORD BOTTOM number)	SACKS	EMENT	SCREEN	30. 31. 31. 31. 31. 31. 31. 31. 31. 31. 31	RACTURE,	LUBING PTH SE 261 CEMENT		ο Γ ΡΑCΚΕΠ SET Νο Γ ΕΖΕ, ΕΤC.
29, SIZE 31, Pertoration Record (	LI TOP	NER RECORD BOTTOM number)	SACKS C	EMENT	SCREEN 32. DEPTH	30. 30. SIZE 2 3/8 ACID, SHOT, F	RACTURE,	ENTH SE		PACKER SET NO 7 EZE, STC. MATERIAL USED
29. SIZE 31. Perforation Record (	LI TOP	NER RECORD BOTTOM number)	SACKS C	EMENT	SCREEN 32. DEPTH	30. 30. SIZE 2 3/8 ACID, SHOT, F	RACTURE,	LUBING PTH SE 261 CEMENT		PACKER SET NO 7 EZE, ETC. MATERIAL USED
29. SIZE 31. Perforation Record ( Open hole 710	LI TOP Interval, size and 0 - 930	NER RECORD BOTTOM number)	SACKS C	CEMENT	SCREEN 32. DEPTH	30. SIZE 23/8 ACID, SHOT, F	RACTURE,	CEMENT		PACKER SET NO 5 EZE, ETC. MATERIAL USED
29. SIZE 31. Perforation Record ( Open hole 710	LI TOP Interval, size and ) = 930	NER RECORD BOTTOM number)	SACKS C	EMENT	SCREEN	30. SIZE 2 3/8 ACID, SHOT, F	RACTURE,	ELENA PTH SE 261 CEMENT UNT AND 05		PACKER SET PACKER SET NO _ T EZE, STC. MATERIAL USED COTP T
29, SIZE 31, Pertoration Record ( Open hole 710	LI TOP Interval, size and ) - 930	NER RECORD BOTTOM number)	SACKS C	EMENT	SCREEN	30. 30. SIZE 2 3/8 ACID, SHOT, F	RACTURE,	EUBING PTH SE 261 CEMENT UNT AND DOST		PACKER SET NO T EZE, ETC. MATERIAL USED
29. SIZE 31. Perforation Record ( Open hole 710	LI TOP Interval, size and ) = 930	NER RECORD BOTTOM number)	SACKS C	PROD	SCREEN 32. DEPTH	30. 30. SIZE 2 3/8 ACID, SHOT, F	RACTURE, AIMO	FUBING PTH SE 261 CEMENT UNT AND POST		PACKER SET PACKER SET NO _ T EZE, ETC. MATERIAL USED OFF - 16 - 1
29. SIZE 31. Perforation Record ( Open hole 71( 33. Date First Production 8-31	LI POP Interval, size and D = 930 Produc C = -	NER RECORD BOTTOM number)	SACKS C	PROD	SCREEN 32. DEPTH UCTION Ding - Size and	30. SIZE 23/8 ACID, SHOT, F INTERVAL		FUBING PTH SE 261 CEMENT UNT AND DOST UNT AND UNT AND UNT AND UNT AND UNT AND		PACKER SET NO 5 EZE, ETC. MATERIAL USED COTP 1 Prod. of Shu(sin)
29. SIZE 31. Perforation Record ( Open hole 710 33. Date First Production 8-31	LI TOP Interval, size and D = 930 Produc Circ	NER RECORD BOTTOM number)	SACKS C	PROD lift, pump	SCREEN	30. SIZE 2 3/8 ACID, SHOT, F INTLEVAL	RACTURE, AMO	FUBING PTH SE 26' CEMENT UNT AND UNT AND UNT AND UNT AND UNT AND UNT AND UNT AND		PACKER SET NO <u>C</u> EZE, STC. MATERIAL USED COMP CO
29. SIZE 31. Perforation Record ( Open hole 710 33. Date First Production 8-31 Date of Test	LI TOP Interval, size and D = 930 Produc Circ Hours Tested	NER RECORD BOTTOM number)	SACKS C sacks c swing, gas resh wa Prod'n. Test P	PROD lift, pump ter For eriod	SCREEN 32. DEPTH UCTION DUCTION Ding – Size and OII – Bbl.	30. 30. SIZE 2 3/8 ACID, SHOT, F INTLRVAL (type pump) Gas - MC	RACTURE, AMO	FUBING PTH SE 261 CEMENT 261 CEMENT UNT AND POST Well C C C or - BbJ	RECORI T T SQUEE T S S S S S S S S S S S S S S S S S S	PACKER SET NO T EZE, ETC. MATERIAL USED COMP T Prod. of Shu(sin) ating os Ofl Bally
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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

т.	Anhy270	T.	Canyon	Т.	Ojo Alamo	T.	Penn. ''B''
т.	Balt 7/5	Т.	Strawn	Т.	Kirtland-Fruitland	T.	Penn. "C"
В.	Salt	Т.	Atoka	Т.	Pictured Cliffs	Т.	Penn. "D"
Т.	Yates	Т.	Miss	Т.	Cliff House	Т.	Leadville
т.	7 Rivers	Ţ.	Devonian	Т.:	Menefee	Т.	Madison
Т.	Queen	т.	Silurian	T.	Point Lookout	т.	Elbert
Т.	Grayburg	Т.	Montoya	Т.	Mancos	Т.	McCracken
Т.	San Andres	T.	Simpson	T.	Gallup	т.	Ignacio Qtzte
r.	Glorieta	т.	McKee	Bas	se Greenhorn	T.	Granite
T.	Paddock	т.	Ellenburger	Т.	Dakola	т.	
<b>T.</b> .	Blinebry	т.	Gr. Wash	Т.	Morrison	T.	
т.	Tubb	т.	Granite	T.	Todilto	т.	
т.	Drinkard	Т.	Delaware Sand	Т.	Entrada	Т.	
Т.	Abo	т.	Bone Springs	Т.	Wingate	Т.	
т.	Wolfcamp	т.	-	Т.	Chinie	Т.	<u> </u>
т.	Penn.	Т.		Т.	Permian	T.	·
т	Cisco (Bough C)	т.		T.	Penn. "A"	T.	

FORMATION RECORD (Attach additional sheets if necessary)

## Thickness Thickness To From Formation From То 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	S-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 Bla	nk		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:

	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.

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 Control		980				
True Value QC		1000				
% Recovery	% Recovery					
Relative Perce	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.

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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
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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 Seary

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

JSTODY AND ANALYSIS REQUEST	ANALYSIS REQUEST																	Terms and Conditions: Marved will be dranged one all south more from Terms and Conditions: Marved will be dranged one all souths more from 30 days part date at the rate of 20% per arrange from the addina date of headen.	and all costs of collection, including attempts fees.	es D No Add'I Phone #: es D No Add'I Fax #: 0^1 1 2	tit samples	- Junyo
CHAIN-OF-CL						- - - -				27 2	CP Prig	11:15 )	11:25 /	11:35 /	11:50 0			e client for the clien of the explicable	s aubaidinden, or otherwhee.	Phone Result: Fax Result: REMARKS:	(srace, ,	86 - 100-
0 5) 393-2476		łŧ	npany:		ines:	<i>J</i>	e: Zip:	ne #:	¢:	PRESERV SAMPLE	стр/веяе: ртнея : д	1 336	2 2	: >	ر ب			be litelihod to the emount peak by th Cardinal within 30 days after corrupt	toes of profile incurred by client, its on any of the above stated reasons			CHECKED BY: (Initials)
C. 1 East Marland, Hob 35) 393-2326 Fax (50	Uus Uus	7 P.O.	Con	R242 Attn	Add	Grace City	Stat	Pho	Fax	MATRIX	ROUNDWATER VASTEWATER OIL RUDE OIL LUDGE LUDGE : MTHER		<u> </u>	2	<u>)</u>			g whether besed in contract or tox, stall a store made in within and received by (	on, business interruptions, loss of use, or dises of whother such daim is based upo	:ved By:	Ned By: (Lab Staff)	
<b>RATORIES, IN</b> ilene, TX 79603 10 (15) 673-7020 (50	ear Conscal	Ser	Vais /	State: NM Zip:	Fax#:	Project Owner: C.		M M			C CONTAINERS		- 7					C codudo remedy for any data attait. Un withhouse data is doomed waked	uental damagas, induthy without limbats of services inscender by Candinii, ragan	Derte: 3 2 ) Terres () 3 )	Date: Rece	- - - -
2DINAL LABO 11 Beechwood, Ab (915) 673-7001 Fax	Fallie S	Eddie w	U JUN		236	, Bill Closure	Salt, Rill	Carlshad	Eddie Say		Sample I.	Grace # 1	Grace # 2.	GVACE # 3	GVACE # 4	8C *	-	l Durages. Cardina's jubility and clien these for restoreds and any other car	utimal be limble for incidential or connectual or connectual or out of or related to the performance of	ished:	2	(Circle One) . Bus - Other:
¥ ₹	Company Name:	Project Manager	Address: ()	CITY: H dds	Phone # 2-2	Project #: کمال	Project Name:	Project Location	Sampler Name:	FOR LAB LISE ONLY	Lab I.D.	HOZY TO H	7	r	7	Y		LEASE NOTE: Libitly and mines: A china Induction	artico. In no exart shell Car Martes or successors artsing	Sampler Relinqu	Relinquished By	Delivered Bv: Sampler - UPS ·

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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)

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

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 ANNINA---. 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	C36 T22 R26 County Eddy
Pit Type: Separator Dehydrator Of	ther
Land Type: BLM, State, Fee $\chi$	, other city of Carlshad
Pit Location: Pit dimensions: length (Attach diagram) Reference: wellhead	<u>100</u> , width <u>30</u> , depth <u>3</u>
Footage from reference:	
Direction from reference	a: Degrees East North
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 2001   Yes (20 points)     Wellhead Protection Area:   Environmental Bureau   No (0 points)     (Less than 200 feet from a private Diff Conservation Division   No (0 points)   0     domestic water source, or; less than 200 feet from all other water sources)   000 feet from all other water sources   000 feet from all other water sources	
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: 82000	Date Completed: 1/2001
Remediation Method:	Excavation $X$	Approx. cubic yards
(Check all appropriate sections)	Landfarmed $X$	Insitu Bioremediation
	Other	
		RECEIVER
Remediation Locatio (ie. landfarmed onsite,	n: Onsite Of	fsite
name and location of offsite facility)		
General Description	Of Remedial Actio	on: Division
Hauled onen	1300 yds from	the combined areas
batter, sump	al git 1	CRI
		·
		· · · · · · · · · · · · · · · · · · ·
Ground Water Encoun	tered: No <u>V</u>	Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location	battery battom
attach sample results and diagram of sample	Sample depth	
locations and depths)	Sample date 1/03	Sample time
	Sample Results #	Hackned
	Benzene(ppm)	, 90 2
	Total BTEX()	opm) . 012
	Field heads	pace(ppm)
	трн 60.5	
Ground Water Sample	Yes No	$X_{-}$ (If yes, attach sample results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND	AT THE INFORMATION BELIEF	N ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE OILIZ/2001		Ell' Desar
SIGNATURE Edden h	PRINTE AND TI	DNAME Edelie W song TLE Acent

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District I P.O. Box 1980, Hobbs, NM District II P.O. Drawer DD, Artesia, NM 88211 Strict III 1000 Rio Brazos Rd, Azzec, NM 87410 P.O. E Santa Fe, New M PIT REMEDIATION A	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 COPY TO APPROPRIATE DISTRICT OFFICE APPROPRIATE DISTRICT OFFICE AND 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 S APPROPRIATE DISTRICT OFFICE AND 1 S APPROPRIATE DISTRICT OFFICE AND 1 S APPROPRIATE DISTRICT OFFICE AND 1 S APPROPRIATE APPROPROPRIATE A
Operator: <u>Grace</u> 8,1 Address: P. & Box 1418 Cauls	Telephone: 505.887.5581
Facility or: South Bill	
Location: Unit or Qtr/Qtr Sec C Sec	ac 36 T 22 R 26 County Edd 4
Pit Type: Separator Dehydrator C	ther
Land Type: BLM, State, Fee $\chi$	, other city of Carlshad
Pit Location: Pit dimensions: length Attach diagram) Reference: wellhead Footage from reference: Direction from reference Pit on location with well of	<u>80</u> , width <u>40</u> , depth <u>8510</u> , other <u>at bottless</u> <u>area</u> e: <u>Degrees</u> <u>East North</u> <u>of</u> west South <u></u>
<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) <u>O</u>
	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
Remediation Locatio	n: Onsite Offsite
(ie. landraimed onsite, name and location of offsite facility)	Environmental B 2001
General Description	Of Remedial Action:
Ida la ansa	1300 unde the combined area
hatte suma	a l'at t CRI
- Alactic	4.1
Ground Water Encoun	tered: No 🗙 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	AND TITLE Agent

,		
Date Remediation St	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)	n: OnsiteOffsite	
General Description	Of Remedial Action:	
Haules over	1300 undo from the combined and	
batter pit	and surp to CRI	
	U	
Ground Water Encoun	tered: No V Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location <u>Pit sidewalk</u>	
attach sample results and diagram of sample	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 110	
Ground Water Sample	: Yes No $X$ (If yes, attach sample results)	
I HEREBY CERTIFY TH	LAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST	
DATE ILLZ 2001		

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):  $\bigcirc$ 

<b>`</b>	
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)	n: Onsite Offsite
General Description	Of Remedial Action:
Hanled over	1300 yds from the combined areas
balting sump	and git to CRI
<u> </u>	• 
	·
Ground Water Encoun	atered: No X Yes Depth
میک کنام میکندان مودهند کرد بینند ایک و بر زنده می <u>مان بر می میکند.</u> ا	
Final Pit: 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 Attach
	Benzene(ppm), 002
	Total BTEX(ppm) .0/2
	Field headspace(ppm)
	TPH <u>59.3</u>
Ground Water Sample: Yes No $\chi$ (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 1/12/2001	
STONATURE PART	AND TITLE ADA

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	RDINAL LABORATORIE	S, INC.			ערו אווע אווארו טוע ווראטרט	I
	(915) 673-7001 Fax (915) 673-702	0 (505) 393-2326	Fax (505) 393-2476		Page of	
Company reason	" Iddie Son Consa	Wine			ANALTON KEWUEDI	1
Project Manage	"Edder Spart	6	P.O. #		· · · · · · · · · · · · · · · · · · ·	
Address: (00 /	tel Idianes		Company:			
City: Kalikes	States V m	ZID: 88242	Atta:			:::::::::::::::::::::::::::::::::::::
Phone #: 7	1236 Fax #		Address: Chin			
Project #:	ace Facility Project Owner	C. Grace				
Project Name:	Salt. B. (1 Facility		State: Zip:			
Project Location	" Carlisband W.M		Phone #:	5)		
Sampler Name:	Eddie the Share		Fax #:	ଅ/		
AB USE ONLY	1	MATR	X PRESERV SAMPLI	NG (8		
(		RS TER ER	· · · · · · · · · · · · · · · · · · ·	X		
Lab I.D.	Sample I.D.	I)RAB OR CONTAIN ROUNDW ASTEWA DIL RUDE OIL	LUDGE THER : CID/BASE E / COOL THER :	TPH BT E		
HSUBI-I	# 1 - Side		$\sim 10^{-1}$	2:45 ノノ		
4	# 2 Bathom - Oit		V 1/3	8:15 レレレ		
5-1	# 2 - Toule Batte		V 13	54:45 1 1		
-4	#4 - Sump		v 13	9:15 1 2		
PLEADE NOTE: Lucky a analyse. Al daims includin	nd Dermagen, Cardanity Hability and chearth exclusive rectoredy for any g those for manufacturo and any officer cause whatboower shall be down	dain arising whicher based in contr med waived whois made in writing a	nd or tort, sinal he limited to fite amount paid by the nd received by Carolinal willing 30 days after compte	o diast for the adam of the applicable	Yerna and Conditions: Interest will be charged on 40 eccents in 30 days part due at the rate of 20% per arms from the arighted of	ye faan 12 of Invelor,
service. In no event shall (c) simulate or exceptions arisi	ardinal be lable for indicated or consequential disreges, including will ng out of or related to the parformance of earwices hereunder by Car	tout Embadica, business interruptions densi, regandours of whether such de	, has of use, or pass of profils incurred by clear, in in is based upon any of the shove stable reasons :	er ofherwise.	an a was a wasan, nangi awaya wa.	
Sampler Relinqu		Received By:		Phone Result: □Yes Fax Result: □Yes	10 No Add'I Phone #: 10 No Add'I Fax #:	
Month P	12:10			HI Sideweller		
Relinquished By	7: Date: Time:	Received By: (Lab		#2 Batton - (	Ś	
Delivered By	: (Circle One)	Sample Co	hothion CHECKED BY:	#3 Tank Bath	z	
Sampler - UPS	- Bus - Other:	Codi Int	yres (Initials)	4 - Sump -	The	
+ Cardinal	cannot accept verbal chances. Please	ax written changes (	0 505-393-2476.			

Jaruinai cannot accept verbai charges. Piease tax written chariges to su

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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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				EIHYL	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
<b>Relative Percent</b>	Difference	7.1	1.4	0.8	1.3
				· · · · · · · · · · · · · · · · · · ·	

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	ATE:	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 Contro		891	957
True Value QC		1000	1000
% Recovery		89.1	95.7
Relative Percent Difference		3.5	5.3

METHOD: SW-846 8015 M

et fa Cooke

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
NAD27 X: Y: Zone: Search Radius:
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

1 1

 $.../awu.numi/eman_auuress-seayu4(w)eaco.net \alpha_tws-225 \alpha_rng-201 \alpha_sec-30 \alpha_A-\alpha_1-\alpha_L-\alpha_{01/12/2001}$ 

### 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 Seay
Sent:	Tuesday, August 29, 2000 9:24 AM
To:	Price, Wayne
Subject:	Salty Bill SWD

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. LOSEF 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.

111

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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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<>
05/14/98	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<>
05/14/98	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<>
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<>
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	14-CG	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>1,200</td><td><rdl< td=""></rdl<></td></rdl<>	60	1,200	<rdl< td=""></rdl<>
05/07/98	16-CG	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>130</td><td><rdl< td=""></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>130</td><td><rdl< td=""></rdl<></td></rdl<>	130	<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>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	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	- <u> </u>		<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

page 2

NMOCD	<b>Required Clea</b>	anup Levels:	Benzene	10 ppm,	BTEX 50 ppm,	TPH 100 ppm.
NMOCD	Soil Investiga	tion Guidanc	e Levels:	Metals	and Chloride a	t WQCC levels.

	in in song					c at made		
Mercury	Arsenic	Barium	Cadmium	Chromium	Lead	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
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<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><rd><rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></rd></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><rd><rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></rd></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1.7	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rd><rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></rd></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rd><rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></rd></td></rdl<></td></rdl<>	<rdl< td=""><td><rd><rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></rd></td></rdl<>	<rd><rdl< td=""><td><rdl< td=""><td>16,000</td></rdl<></td></rdl<></rd>	<rdl< td=""><td>16,000</td></rdl<>	16,000
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<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

	TPH 100 ppm, Me	tals at WQ	CC levels	10	20 Ppm	N.			
Date	Sample	Benzene	BTEX	Diesel	Gasoline	Mercury	Arsenic	Barium	
Sampled	Location	-1000m	SOPPM	range org.	range org.	0.0002 ppm	0.1ppm	1. ppm	in GW.
		4				/			
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>P</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>P</td></rdl<></td></rdl<></td></rdl<>	300	<rdl< td=""><td><rdl< td=""><td>1.8</td><td>1.3</td><td>P</td></rdl<></td></rdl<>	<rdl< td=""><td>1.8</td><td>1.3</td><td>P</td></rdl<>	1.8	1.3	P
5/14/98	pump sump # 3 y	<rdl< td=""><td><rdl< td=""><td>110</td><td><rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.5</td><td>Sompume</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>Sompume</td></rdl<></td></rdl<></td></rdl<>	110	<rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.5</td><td>Sompume</td></rdl<></td></rdl<>	<rdl< td=""><td>2.1</td><td>1.5</td><td>Sompume</td></rdl<>	2.1	1.5	Sompume
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>, ,</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>, ,</td></rdl<></td></rdl<></td></rdl<>	85	<rdl< td=""><td><rdl< td=""><td>2.1</td><td>1.3</td><td>, ,</td></rdl<></td></rdl<>	<rdl< td=""><td>2.1</td><td>1.3</td><td>, ,</td></rdl<>	2.1	1.3	, ,
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>Cuel Some</td></rdl<></td></rdl<></td></rdl<>	18	960	<rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.6</td><td>Cuel Some</td></rdl<></td></rdl<>	<rdl< td=""><td>2.0</td><td>1.6</td><td>Cuel Some</td></rdl<>	2.0	1.6	Cuel Some
5/14/98	T-2 18 Somp	<rdl< td=""><td>191</td><td>2,800</td><td>13</td><td><rdl< td=""><td>1.1</td><td>1.6</td><td>5 10 mil</td></rdl<></td></rdl<>	191	2,800	13	<rdl< td=""><td>1.1</td><td>1.6</td><td>5 10 mil</td></rdl<>	1.1	1.6	5 10 mil
5/14/98	T-3 18" Somp	<rdl< td=""><td><rdl< td=""><td>320</td><td><rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.8</td><td>2</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><td>2</td></rdl<></td></rdl<></td></rdl<>	320	<rdl< td=""><td><rdl< td=""><td>2.0</td><td>1.8</td><td>2</td></rdl<></td></rdl<>	<rdl< td=""><td>2.0</td><td>1.8</td><td>2</td></rdl<>	2.0	1.8	2
5/14/98	T-4 18 Cultury	<rdl< td=""><td>34</td><td>320</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td><td>1</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	34	320	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.7</td><td>1</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.7</td><td>1</td></rdl<></td></rdl<>	<rdl< td=""><td>1.7</td><td>1</td></rdl<>	1.7	1
5/14/98	T-5 181' Ond Tim k	<rdl< td=""><td><rdl< td=""><td>270</td><td><rdl< td=""><td><rdl< td=""><td>2.2</td><td>2.0</td><td>18"</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>270</td><td><rdl< td=""><td><rdl< td=""><td>2.2</td><td>2.0</td><td>18"</td></rdl<></td></rdl<></td></rdl<>	270	<rdl< td=""><td><rdl< td=""><td>2.2</td><td>2.0</td><td>18"</td></rdl<></td></rdl<>	<rdl< td=""><td>2.2</td><td>2.0</td><td>18"</td></rdl<>	2.2	2.0	18"
5/14/98	T-6 18" 011 Tank	<rdl< td=""><td><rdl< td=""><td>690</td><td><rdl< td=""><td><rdl< td=""><td>1.2</td><td>1.6</td><td>Ticks</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><td>Ticks</td></rdl<></td></rdl<></td></rdl<>	690	<rdl< td=""><td><rdl< td=""><td>1.2</td><td>1.6</td><td>Ticks</td></rdl<></td></rdl<>	<rdl< td=""><td>1.2</td><td>1.6</td><td>Ticks</td></rdl<>	1.2	1.6	Ticks
5/14/98	T-7 18" Oiltenh	<rdl< td=""><td></td><td>1,500</td><td><rdl< td=""><td><rdl< td=""><td>1.9</td><td>1.5</td><td>1 1990</td></rdl<></td></rdl<></td></rdl<>		1,500	<rdl< td=""><td><rdl< td=""><td>1.9</td><td>1.5</td><td>1 1990</td></rdl<></td></rdl<>	<rdl< td=""><td>1.9</td><td>1.5</td><td>1 1990</td></rdl<>	1.9	1.5	1 1990
E/4 4/00			-001	(DDI					
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<>	
5/7/09	100 / 21			2 100					
5/7/90	1-00 6 Fit	<rdl< td=""><td><rdl< td=""><td>2,100</td><td>RDL</td><td><rdl< td=""><td></td><td></td><td>('PiL</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>2,100</td><td>RDL</td><td><rdl< td=""><td></td><td></td><td>('PiL</td></rdl<></td></rdl<>	2,100	RDL	<rdl< td=""><td></td><td></td><td>('PiL</td></rdl<>			('PiL
5/7/08	2-00 1 14			130	<rdl< td=""><td></td><td><rdl< td=""><td></td><td>201.1</td></rdl<></td></rdl<>		<rdl< td=""><td></td><td>201.1</td></rdl<>		201.1
5/7/98	4-CG			200	<rdi< td=""><td><rdi< td=""><td><rdi< td=""><td><rdi< td=""><td>7</td></rdi<></td></rdi<></td></rdi<></td></rdi<>	<rdi< td=""><td><rdi< td=""><td><rdi< td=""><td>7</td></rdi<></td></rdi<></td></rdi<>	<rdi< td=""><td><rdi< td=""><td>7</td></rdi<></td></rdi<>	<rdi< td=""><td>7</td></rdi<>	7
5/7/98	5-CG ( PI	<rdi< td=""><td></td><td><rdi< td=""><td><rdi< td=""><td><rdi< td=""><td><rdi< td=""><td></td><td>7</td></rdi<></td></rdi<></td></rdi<></td></rdi<></td></rdi<>		<rdi< td=""><td><rdi< td=""><td><rdi< td=""><td><rdi< td=""><td></td><td>7</td></rdi<></td></rdi<></td></rdi<></td></rdi<>	<rdi< td=""><td><rdi< td=""><td><rdi< td=""><td></td><td>7</td></rdi<></td></rdi<></td></rdi<>	<rdi< td=""><td><rdi< td=""><td></td><td>7</td></rdi<></td></rdi<>	<rdi< td=""><td></td><td>7</td></rdi<>		7
5/7/98	6-CG ( P'I	<rdi< td=""><td><rdi< td=""><td><rdi< td=""><td><rdi< td=""><td><rdi< td=""><td><rdi< td=""><td>17</td><td>Sh Pi+</td></rdi<></td></rdi<></td></rdi<></td></rdi<></td></rdi<></td></rdi<>	<rdi< td=""><td><rdi< td=""><td><rdi< td=""><td><rdi< td=""><td><rdi< td=""><td>17</td><td>Sh Pi+</td></rdi<></td></rdi<></td></rdi<></td></rdi<></td></rdi<>	<rdi< td=""><td><rdi< td=""><td><rdi< td=""><td><rdi< td=""><td>17</td><td>Sh Pi+</td></rdi<></td></rdi<></td></rdi<></td></rdi<>	<rdi< td=""><td><rdi< td=""><td><rdi< td=""><td>17</td><td>Sh Pi+</td></rdi<></td></rdi<></td></rdi<>	<rdi< td=""><td><rdi< td=""><td>17</td><td>Sh Pi+</td></rdi<></td></rdi<>	<rdi< td=""><td>17</td><td>Sh Pi+</td></rdi<>	17	Sh Pi+
5/7/98	7-CG / 21	<rdi< td=""><td><rdl< td=""><td>37</td><td><rdi< td=""><td><rdi< td=""><td><rdl< td=""><td><rdi< td=""><td>5-</td></rdi<></td></rdl<></td></rdi<></td></rdi<></td></rdl<></td></rdi<>	<rdl< td=""><td>37</td><td><rdi< td=""><td><rdi< td=""><td><rdl< td=""><td><rdi< td=""><td>5-</td></rdi<></td></rdl<></td></rdi<></td></rdi<></td></rdl<>	37	<rdi< td=""><td><rdi< td=""><td><rdl< td=""><td><rdi< td=""><td>5-</td></rdi<></td></rdl<></td></rdi<></td></rdi<>	<rdi< td=""><td><rdl< td=""><td><rdi< td=""><td>5-</td></rdi<></td></rdl<></td></rdi<>	<rdl< td=""><td><rdi< td=""><td>5-</td></rdi<></td></rdl<>	<rdi< td=""><td>5-</td></rdi<>	5-
5/7/98	8-CG	<rdi< td=""><td><rdl< td=""><td>1,400</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.1</td><td>5</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdi<>	<rdl< td=""><td>1,400</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.1</td><td>5</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	1,400	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.1</td><td>5</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.1</td><td>5</td></rdl<></td></rdl<>	<rdl< td=""><td>1.1</td><td>5</td></rdl<>	1.1	5
5/7/98	9-CG	<rdi< td=""><td><rdl< td=""><td>940</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>21</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdi<>	<rdl< td=""><td>940</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>21</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	940	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>21</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.3</td><td>21</td></rdl<></td></rdl<>	<rdl< td=""><td>1.3</td><td>21</td></rdl<>	1.3	21
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>L Pit</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>L Pit</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	720	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>L Pit</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>L Pit</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>L Pit</td></rdl<></td></rdl<>	<rdl< td=""><td>L Pit</td></rdl<>	L Pit
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>7</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>7</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	34	<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	12-CG	<rdl< td=""><td><rdl< td=""><td>360</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>360</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	360	<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	13-CG 12 inchit	<rdl< td=""><td>5.9</td><td>350</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	350	<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	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	
5/7/98	15-CG 12 1 T	<rdl< td=""><td>60</td><td>1,200</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	60	1,200	<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	16-CG 12 in T	<rdl< td=""><td><rdl< td=""><td>780</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>780</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<>	780	<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	17-CG 12 T	<rdl< td=""><td><rdl< td=""><td>130</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>12 Avounil</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><td>12 Avounil</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	130	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>1.3</td><td>12 Avounil</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>1.3</td><td>12 Avounil</td></rdl<></td></rdl<>	<rdl< td=""><td>1.3</td><td>12 Avounil</td></rdl<>	1.3	12 Avounil
5/7/98	18-CG 12: 1 T	<rdl< td=""><td>43</td><td>860</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>Tanks</td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	43	860	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>Tanks</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>Tanks</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>Tanks</td></rdl<></td></rdl<>	<rdl< td=""><td>Tanks</td></rdl<>	Tanks
5/7/98	19-CG IZ in T	<rdl< td=""><td><rdl< td=""><td>310</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>310</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<>	310	<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	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></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></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	150	<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	21-CG 12: T	<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
5/7/98	22-CG IZin T	<rdl< td=""><td><rdl< td=""><td>560</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>560</td><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	560	<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<>	
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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=""><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<>	

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	0.0500m	. OSpom	.0 Spom	.0 500m	250	- INGW
			•)	1)		
<rdl< td=""><td><rdl< td=""><td>1.1</td><td><rdl< td=""><td><rdl< td=""><td>10,000</td><td>2</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1.1</td><td><rdl< td=""><td><rdl< td=""><td>10,000</td><td>2</td></rdl<></td></rdl<></td></rdl<>	1.1	<rdl< td=""><td><rdl< td=""><td>10,000</td><td>2</td></rdl<></td></rdl<>	<rdl< td=""><td>10,000</td><td>2</td></rdl<>	10,000	2
<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,800</td><td>(1) Pina Some</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><td>(1) Pina Some</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>8,800</td><td>(1) Pina Some</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>8,800</td><td>(1) Pina Some</td></rdl<></td></rdl<>	<rdl< td=""><td>8,800</td><td>(1) Pina Some</td></rdl<>	8,800	(1) Pina Some
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<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>9,100</td><td></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><td></td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>9,100</td><td></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>9,100</td><td></td></rdl<></td></rdl<>	<rdl< td=""><td>9,100</td><td></td></rdl<>	9,100	
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<rdl< td=""><td><rdl< td=""><td>1.2</td><td><rdl< td=""><td><rdl< td=""><td>5,100</td><td>re" Sump</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td>1.2</td><td><rdl< td=""><td><rdl< td=""><td>5,100</td><td>re" Sump</td></rdl<></td></rdl<></td></rdl<>	1.2	<rdl< td=""><td><rdl< td=""><td>5,100</td><td>re" Sump</td></rdl<></td></rdl<>	<rdl< td=""><td>5,100</td><td>re" Sump</td></rdl<>	5,100	re" Sump
<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>16,000</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>16,000</td><td>1.0</td></rdl<></td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td><rdl< td=""><td>16,000</td><td>1.0</td></rdl<></td></rdl<></td></rdl<>	<rdl< td=""><td><rdl< td=""><td>16,000</td><td>1.0</td></rdl<></td></rdl<>	<rdl< td=""><td>16,000</td><td>1.0</td></rdl<>	16,000	1.0
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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  $\overline{\mathcal{N}}$ 5 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 Ψ, 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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Date	Sample	Benzene	BTEX	Diesel	Gasoline	Mercury	Arsenic	Barium
Sampled	Location			range org.	range org.	:		
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
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></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	Т-5	<rdl< td=""><td><rdl< td=""><td>270</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>270</td><td><rdl< td=""><td><rdl< td=""><td>2.2</td><td>2.0</td></rdl<></td></rdl<></td></rdl<>	270	<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	Т-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
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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<>
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=""></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<>
5/7/98	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<>
5/7/98	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<>
5/7/98	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
5/7/98	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<>
5/7/98	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<>
5/7/98	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
5/7/98	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
<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
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<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><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><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><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><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><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><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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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	TICAL I	ABORAT	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 F	Project #: 16614-A
Client: Grace Oil				Date Sampled: 5/14/98
Client Contact: Ml	TCH MORRI	(S		Date Received: 5/15/98
Client Project Numbe	r: NA			Date Reported: 6/26/98
Client Project Name:	SALTY	BILL PIT CLOSURE		Sample Matrix: SOIL
Client Sample ID:	PUMP	STIMP #1		
Suent Sample 15.				· · · · · · · · · · · · · · · · · · ·
ANALYSIS: TCLP	Extraction i	Procedure	Ме	thod Ref: 1311
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/98 Res	ult Units:
Analyte Name			Analytical Results	Reported Detection Limits
TCLP Extraction			NA	0
ANALYSIS: TCLP	Mercury		Ма	thod Ref: 7470A
Data Analyzadi	6/24/08	Date Ext/Dig/Prent	6/24/98 Re	sult Units: mg/L
Date Analyzeu.	0/24/70	Date Die Dig Liep.		
Analyte Name			Analytical Results	Reported Detection Limits
Mercury (Reg Limit	= 0.2)		<rdl< td=""><td>0.01</td></rdl<>	0.01
ANALYSIS: TCLI	<u>P Metals</u>		Me	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 Limit	= 5.0)		1.1	I
Barium (Reg Limit	= 100.0)		3.0	1
Cadmium (Reg Lim	it = 1.0)		<rdl< td=""><td>1</td></rdl<>	1
Chromium (Reg Lin	nit = 5.0)		<rdl< td=""><td>l</td></rdl<>	l
Lead (Reg Limit = 2	5.0) ····································			1
Selenium (Keg Limi	ແ = 1.0) ເ ດ			10
Suver (Kee Public -	5.07			·

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;

RECEIVED:

### 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 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	t = 5.0)		1.8	I		
Barium (Reg Limit	t = 100.0)		1.3	1		
Cadmium (Reg Lir	nit = 1.0)		<rdl< td=""><td>1</td></rdl<>	1		
Lead (Reg Limit a	mit = 5.0		<rdl< td=""><td>1</td></rdl<>	1		
Selenium (Reg Lin	ait = 10			1		
Silver (Reg Limit	= 5.0)		<kdl< td=""><td>1</td></kdl<>	1		
			j	Lia Dall Accura Analytical Laboratory, Inc.		
ACCURA ANALYTIC	AL LABORATON	RY, INC. (RDI.	= Less than Reported Delec	zion Limit Pg 2 of 12		
Anen pampie m): k	UMP SUMP #2		AALSample ID #: A	B43777 Accura Project #: 16614-A		
1 446 2425 677	022					

9770 448 5477 ≈> GRACE 01L; #4

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ANALYTICAL	LABORAT	'ORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477 FL Certification # F87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sam	ple ID #:	AB43778	Accura	Project #: 16614-A
	<b>.</b>			Date Sampled: 5/14/98
Client: Grace Oil		_		Date Received: 5/15/98
Client Contact: Ml1	ICH MORKI	8		Date Reported: 6/26/98
Client Project Numbe	r: NA			Sample Matrix: SOIL
Client Project Name:	SALTY I	BILL PIT CLOSURE		<b>— — — — —</b>
Client Sample ID:	PUMP	SUMP #3		
ANAL VEIC, TOLP	Extraction	Procedure	1	Method Ref: 1311
ANALTSIS. ICLI	6/23/98	Date Ext/Dig/Prep:	6/23/98	Result Units:
Date Analyzed:	0/25/20		Thomas	Reported Detection Limits
Analyte Name			Analytical Results	
TCLP Extraction			NA	U
ANA NOTE TO I	Maroury			Method Ref: 7470A
ANALISIS: ICL	6/74/09	Date Ext/Die/Prep:	6/24/98	Result Units: mg/L
Date Analyzed:	0/24/90	Date 710 2 .8 L.	A	Reported Detection Limits
Analyte Name			Analytical Nesul	0.01
Mercury (Reg Limi	t = 0.2)		<rdl< td=""><td>0.01</td></rdl<>	0.01
				Method Ref 3010A/6010B
ANALYSIS: TCL	P Metals			
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98	Result Omia. mgrb
Analyte Name			Analytical Resul	ts Reported Detection Limits
Americ /Reg Limi	t≕50)		2.1	1
Barium (Reg Limit	t = 100.0		1.5 •	I 1
Cadmium (Reg Li	mit = 1.0)		<rdl< td=""><td>1</td></rdl<>	1
Chromium (Reg L	imit = 5.0)			1
Lead (Reg Limit =	5.0)		<rdl< td=""><td>1</td></rdl<>	1
Selenium (Reg Lin Silver (Reg Limit	= 5.0		<rdl< td=""><td>1</td></rdl<>	1
SHAR (YOR During	•••)			
				_ Lide the
				Accura Analytical Laboratory, Inc.
		ATORY, INC. <r< td=""><td>DL = Less than Report</td><td>d Detection Limit Pg 3 of 12</td></r<>	DL = Less than Report	d Detection Limit Pg 3 of 12
Client Sample 1D:	PUMP SUM	P#3	AALSampie II	D#: AB43778 Accura Project #: 16614-A

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

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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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 Pro	ject #	#: 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/	26/98
Client Project Name	SALTY	BILL PIT CLOSURE			Sam	nle Matrix: Si	DIL
Client Sample ID:	T-1			چې موارد و. موارد و.		<b></b> "	
ANALYSIS: TCL	P Extraction	Procedure		Method	i Ref:	1311	
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/98	<b>Result</b>	Units:		
Analyte Name			Analytical R	<del>esults</del>	Re	ported Detect	tion Limits
TCLP Extraction			NA			0	
ANALYSIS: TCL	P Mercury			Method	i Ref:	7470A	
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result	Units:	mg/L	
<u>Analyte Name</u>			Analytical Re	esults	Re	ported Detect	tion 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	i Ref:	3010A/6010	в
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98	Result	Units:	mg/L	
Analyte Name			Analytical Re	esults	Re	ported Detect	tion Limits
Arsenic (Reg Limit	= 5.0)		2.0	•		1	
Barium (Reg Limit	= 100.0)		1.6	•		1	
Cadmium (Reg Lin	iit = 1.0)		<rdl< td=""><td></td><td></td><td>1</td><td></td></rdl<>			1	
Unromium (Reg Lin	nit = 3.0)		<kdl< td=""><td></td><td></td><td>I 1</td><td></td></kdl<>			I 1	
Selenium (Reg I im	<i>it</i> ≈ 1.0\					1	
Serviciant (176% Dill						•	

Accura Analytical Laboratory, Inc.

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

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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>R</u> e	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: TCLP	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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<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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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	SALTY	BILL PIT CLOSURE		Sam	nle Matrix: SOII
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	= 5.0)		2.0		1
Barium (Reg Limit -	= 100.0)		1.8 -		1
Cadmium (Reg Lim	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 (Keg Limit = $2$	).U) H = 1 ()				1
Silver (Reg Limit =	ε				1
5	2.0,				-

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC. <RUL = Less than Reported Detection Limit

Pg 7 of 12

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Client Sample ID: T-3

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---- i  AALSample ID #: AB43782 Accura Project #: 16614-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 Sample ID #: AB43783			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	SALTYR	IL PIT CLOSURE		Sample Matrix: SOU		
	570710	ALT IT CLOSORE		banple mank. bonz		
Chent Sample ID:	1-4					
ANALYSIS: TCLP Extraction Procedure			N	fethod Ref: 1311		
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/98 R	esult Units:		
Analyte Name			Analytical Results	Reported Detection Limits		
TCLP Extraction			NA	0		
ANALYSIS: TCLP	Mercury	a and the design of the design	М	1ethod Ref: 7470A		
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98 R	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		N	fethod Ref: 3010A/6010B		
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/24/98 P	tesult 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 = 7	100.0)		1.7 ~	1		
Cadmium (Reg Limit	= 1.0)		<rdl< td=""><td>1</td></rdl<>	1		
Chromium (Reg Limit	t = 5.0)		<rdl< td=""><td>1</td></rdl<>	1		
Lead (Reg Limit = 5.0	)) 1 A)		<rdl< td=""><td>1</td></rdl<>	1		
Scienium (Keg Limit =	= 1.V) M			10		
SUACI (VER FRUIT . 2	vj			·		

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ACCURA ANALYTICAL LABORATORY, INC.

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<RDL = Less than Reported Detection Limit

Pg 8 of 12

Client Sample ID: T-4

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

## **XCCURA ANALYTICAL LABO** TORY, INC.

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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			Date Sampled: 5/14/98		
Client Contact: Mi	ITCH MORR	IS	Date 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	= 100.0)		2.0	-	1
Cadmium (Reg Lim	it = 1.0		<rdl< td=""><td></td><td>1</td></rdl<>		1
Lead (Pag Limit = 4	nit = 5.0} ≦0ì		<rdl< td=""><td></td><td>1</td></rdl<>		1
Selenium (Reg Limi	it = 1.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Silver (Reg Limit =	5.0)		<rdl< td=""><td></td><td>3</td></rdl<>		3
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Accura Analytical Laboratory, Inc.

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<RDL = Less than Reported Detection Limit

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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 =	5.0)		1.2 •		1
Barium (Reg Limit = 100.0)			1.6 -		1
Catanium (Reg Limit = $1.0$ )					1
Lead (Reg Limit = 5 (	n - 2.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I
Selenium (Reg Limit	= 1.0)		<rdl< td=""><td></td><td>10</td></rdl<>		10
Silver (Reg Limit = 5.	.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

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Pg 10 of 12

Client Sample ID: T-6

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

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6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477 FL Certification # F87429

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: MITCH MORRIS			Date Received: 5/15/98		
Client Project Numb	er: NA			Date	Reported: 6/26/98
Client Project Name	SALTY	BILL PIT CLOSURE		Sam	ple Matrix: SOIL
Client Sample ID:	T_7				
······	• · ·		·• •· ····		······································
ANALYSIS: TCLP	Extraction	Procedure		Method Ref:	1311
Date Analyzed:	6/23/98	Date Ext/Dig/Prep:	6/23/98	Result Units:	
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
TCLP Extraction			NA		0
ANALYSIS: TCLF	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	= 100.0)		1.5 -		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>l</td></rdl<>		l
Lead (Reg Limit = 3	5.0) Saun 1.02				1
Silver (Reg Limit =	1. – 1. v) 5. 0)		<rdi< td=""><td></td><td>-</td></rdi<>		-
CULLE LINE	2.9/				

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<RDL = Less than Reported Detection Limit

Pg ii of 12

Client Sample ID: T-7

AALSample ID #: AB43786 Accura Project #: 16614-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 #:	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 F	Procedure	Ň	Aethod Ref: 1311	
Deter A polygody 6/32/08	Data Ext/Dig/Breat			
Date Analyzed: 0/25/98	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>l</td></rdl<>	l	
Silver (Reg Limit = 5.0)		<kdl< td=""><td>ĩ</td></kdl<>	ĩ	

Accura Analytical Laboratory, Inc.

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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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			Accura Project #: 16546-A		
Client: Grace Oil			Date Sampled: 5/7/98		
Client Contact: M	Client Contact: MITCH MORRIS			Date Received: 5/9/98	
Client Project Num	per: NA			Date Reported: 6/26/98	
Client Project Name	SALTY	BUT PUTCIOSURE		Secondo Mateiro SON	
Client Sample ID:	1.00			Sample Marrix: 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	≂ 100.0)		<rdl< td=""><td>i</td></rdl<>	i	
Cadmium (Reg Lim	.it = 1.0)		<rdl< td=""><td>1</td></rdl<>	1	
Chromium (Reg Lir	nit = 5.0)		<rdl< td=""><td>1</td></rdl<>	1	
Lead (Reg Limit = (	5.0)		<rdl< td=""><td>-</td></rdl<>	-	
Selenium (Keg Lim	$\mathbf{f} = 1 \cdot 0$		<rdl< td=""><td>1</td></rdl<>	1	
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<RDL = Less than Reported Detection Limit

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Client Sample ID: 1-CG

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

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LABORATORY REPORT

Accura Sample ID #: AB43362			Accura Project #: 16546-A		
Client: Grace Oil			Date Sampled: 5/7/98		
Client Contact: MT	TCH MORR	IS	Date Received: 5/0/05		
Client Project Number	Client Project Number: NA			Date	Reported: 6/76/98
Client Project Name	SALTY	BILL PIT CLOSUPE		E am	nle Matrix: SOII
Client Sample (D:	2-CG			Sam	pie Manx. SOIL
······				a . <u></u>	
ANALYSIS: TCLP	Extraction	Procedure		Method Ref:	1311
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:	
Analyte Name			Analytical Res	ults 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 Res	ults <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 Res	ults <u>Re</u>	ported Detection Limits
Arsenic (Reg Limit =	• <b>5</b> .0)		<rdl< td=""><td></td><td>l</td></rdl<>		l
Barium (Reg Limit =	100.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Limit = 1.0)		<rdl< td=""><td></td><td>Ţ.</td></rdl<>		Ţ.	
Chromium (Reg Limit = 5.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I	
Lead (Reg Limit = 5.	.0)		<rdl< td=""><td></td><td>l</td></rdl<>		l
Selenium (Reg Limit	:= 1.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
SHVET (Keg Limit = )	J.UJ		. <kul< td=""><td></td><td>1</td></kul<>		1

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<RDL = Less than Reported Detection Limit

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Pg 2 of 23

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Client Sample ID: 2-CG

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

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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	ocedure		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	lts <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	t ≈ 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 (Keg Limi	t≃ 1.0) ≮∩\				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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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		Date	Received: 5/9/98
Client Project Num	aber: NA			Date	: Reported: 6/26/98
Client Project Name: 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	t = 100.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Lin	mit = 1.0)		<rdl< td=""><td></td><td> </td></rdl<>		
Chromium (Reg L	imit = 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Selenium (Reg Limit =					L F
Silver (Reg Limit	= 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
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<RIDL = Less than Reported Detection Limit

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AALSample ID #: AB43364 Accura Project #: 16546-A

Client Sample (D: 4-CG

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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	e: SALTY	BILL PIT CLOSURE		Sam	nle Matrix: SAU
Client Sample ID:	5-CG		<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	= 100.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I
Cadmium (Reg Lir	nit = 1.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Li	imit = 5.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I
Lead (Reg Limit =	5.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I
Selenium (Keg Lin Silver (Reg Limit =	iπ = 1.0) = 5.0)		<rdl <rdl< td=""><td></td><td>ι 1</td></rdl<></rdl 		ι 1
	·			<u>^</u>	
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Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

<RDL = Less than Reported Detection Limit

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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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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 1 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 Date Received: 5/9/98 Date Reported: 6/26/98				
TCH MORR	18					
er: NA						
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			
= 100.0)		1.1 ~	1			
Cadmium (Reg Limit = 1.0)			1			
Chromium (Reg Limit = $5.0$ )			1			
Lead (Reg Limit = 5.0)			1			
Selenium (Reg Limit = $1.0$ )			i			
	TCH MORR cr: NA : SALTY   8-CG • Extraction   6/22/98 • Mercury 6/24/98 = 0.2) • Metais 6/25/98 = 5.0) = 100.0) it = 1.0) nit = 5.0) = 0.1	TTCH MORRIS cr: NA : SALTY BILL PIT CLOSURE 8-CG Pextraction Procedure 6/22/98 Date Ext/Dig/Prep: 6/24/98 Date Ext/Dig/Prep: = 0.2) Performance 6/25/98 Date Ext/Dig/Prep: = 5.0) = 100.0) it = 1.0) it = 1.0)	TTCH MORRIS   cr: NA   : 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:   6/24/98   Date Ext/Dig/Prep:   6/24/98   Date Ext/Dig/Prep:   6/25/98   Date Ext/Dig/Prep:   6/23/98   Analytical Result   = 5.0)   = 5.0) <rdl< td="">   100.0) 1.1   it = 1.0) <rdl< td="">   (a) <rdl< td="">   (b) <rdl< td=""></rdl<></rdl<></rdl<></rdl<>			

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

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Client Sample ID: 9-CG

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

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LABORATORY REPORT

Accura Sample ID #: AB43370			Accura Project #: 16546-A			
Client: Grace Oil				Date	Sampled: 5/7/98	
Client Contact: MI	TCH MORRIS		Date Received: 5/9/98			
Client Project Numbe	r: NA			Date	Reported: 6/26/98	
Client Project Name: SALTY BILL PIT CLOSURE				Sam	ple Matrix: SOIL	
Client Sample ID:	10-CG					
•				• • • • • •		
ANALYSIS: TCLP	Extraction Pr	ocedure		Method Ref:	1311	
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:		
Analyte Name			Analytical Resul	<u>IS Re</u>	ported Detection Limits	
TCLP Extraction			NA		0	
ANALYSIS: TCLP	Mercury			Method Ref:	7470A	
Date Analyzed:	6/24/98	Date Ext/Dig/Prcp:	6/24/98	Result Units:	mg/L	
Analvte 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	<u>lts Re</u>	ported Detection Limits	
Arsenic (Reg Limit =	= 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1	
Barium (Reg Limit =	100.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1	
Cadmium (Reg Limit	t = 1.0)		<rdl< td=""><td></td><td>l I</td></rdl<>		l I	
Chromium (Reg Limit = 5.0)			<rdl< td=""><td></td><td>1</td></rdl<>		1	
Lead (Reg Limit = 5.	.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I	
Selenium (Rcg Limit	t = 1.0)		<rdl< td=""><td></td><td>i</td></rdl<>		i	
Silver (Reg Limit = 5	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 10 of 23

Client Sample ID: 10-CG

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

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## CURA 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 #: 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 Number	r: NA			Date	Reported: 6/26/98	
Client Brainet Marrie	CALTV.			Čen Vari	ale Mentine COM	
Chent Project Name:	JALII	BILL FIT CLUSUKE		San	iple 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	= ().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 =	100.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1	
Cadmium (Reg Limi	t = 1.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I	
Chromium (Reg Lim	lt = 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1	
Lead (Reg Limit = 5.	.0)		<rdl 1<="" td=""><td>1</td></rdl>		1	
Selenium (Rcg Limit	:= 1.0)		<rdl 1<="" td=""><td>1</td></rdl>		1	
Silver (Reg Limit = 2	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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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 Numb	er: NA			Date Reported: 6/26/98		
Client Project Name	SALTY	BILL PIT CLOSURE		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 Re	esult (Jnits:		
Analyte Name			Analytical Results	Reported Detection Limits		
TCLP Extraction			NA	0		
ANALYSIS: TCL	P Mercury		М	ethod Ref: 7470A		
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98 Ro	sult Units: mg/L		
Analyte Name			Analytical Results	<b>Reported Detection Limits</b>		
Mercury (Reg Limit	t = 0.2)		<rdl< td=""><td>0.01</td></rdl<>	0.01		
ANALYSIS: TCL	P Metais		М	ethod Ref: 3010A/6010B		
Date Analyzed:	6/25/98	Date Ext/Dig/Prep:	6/23/98 Ro	sult 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	= 100.0)		<rdl< td=""><td>1</td></rdl<>	1		
Cadmium (Reg Limit = 1.0)			<rdl< td=""><td>1</td></rdl<>	1		
Chromium (Reg Limit $\neq 5.0$ )			< KUL	l 1		
Lead (Reg Limit = 5.0) $(P_{\text{reg}} \mid P_{\text{reg}} \mid A)$				I		
Selenium (Reg Limit = 1.0)			<rdl i<="" td=""></rdl>			

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 Result	s <u>R</u> e	ported Detection Limits
TCLP Extraction			NA		0
<u>ANALYSIS: TCI</u>	P Mercury			Method Rof:	7470A
Date Analyzed:	6/24/98	Date Ext/Dig/Prep:	6/24/98	Result Units:	mg/L
Analyte Name			Analytical Result	is Re	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
Analyts Name			Analytical Result	<u>is Re</u>	ported 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
Cadmium (Reg Lu	nit = 1.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Chromium (Reg Li	imit = 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Lead (Reg Limit =	5.0)		<rdl< td=""><td></td><td>l</td></rdl<>		l
Selenium (Reg Lin	ait = 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
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Accura Analytical Laboratory, Inc.

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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	S	Date Received: 5/9/9			
Client Project Number:	NA			Date	Reported: 6/26/98	
Client Project Name: SALTY BILL BIT CLOSH DI				Sam	nle Matrix: SOIT	
Client Sample (D:	14.00			Dum		
Chefft Santhie 10.	14+CG			. <u></u>		
ANALYSIS: TCLP Extraction Procedure				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	.00.0)		١.0		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>[</td></rdl<>		[	
Lead (Reg Limit = $5.0$ )			<rdl< td=""><td>1</td></rdl<>		1	
Selenium (Reg Limit -	= 1.0)		<rdl< td=""><td></td><td></td></rdl<>			
Silver (Keg Limit = 5.	<i>u)</i>		- KUL		ĩ	

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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 Numl	ber: NA			Date	Reported: 6/26/98
Client Project Name: SALTY BILL PIT CLOSURE				Sam	nle Matrix: SOII
Client Sample ID: 15-CG				<b>~</b>	
ANALYSIS: TCL	P Extraction P	roredure			
Date Analuzed:	61721818	Data Eur/Di-/D-	6/22/24	Mediod Kel:	1311
Date Analyzou,	0/22/90	Date EXUDig/Tep:	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: TCLI	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	= 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Barium (Reg Limit = $100.0$ )			<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Limit = $1.0$ )			<rdl< td=""><td></td><td>1</td></rdl<>		1
$\int e^{-\pi i t} dt = 5 $					I
Selenium (Reg Limi	t = 1.0)				1
Silver (Reg Limit =	5.0)		<rdl< td=""><td></td><td>ł</td></rdl<>		ł

Accura Analytical Laboratory, Inc.

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<RDL = Less than Reported Detection Limit

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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)

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ACCURA ANALYTICAL LABORATORY, INC.

<RDL = Less than Reported Detection Limit

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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 MORRI	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		14		•·········	
ANALYSIS: TCLP	Extraction F	rocedure		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	ts <u>Re</u>	ported Detection Limits	
Mercury (Reg Limit	= ().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 Resu	lts <u>Re</u>	ported Detection Limits	
Arsenic (Reg Limit =	= 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1	
Barium (Reg Limit = 100.0)			1.3		1	
Cadmium (Reg Limit = 1.0) Chromium (Reg Limit = 5.0)			<rdl< td=""><td></td><td>1</td></rdl<>		1	
Lead (Reg Limit = 5	Lead (Reg Limit = 5.0)				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 Sample ID #: AB43378			Accura Project #: 16546-A		
Client: Grace Oil					Date Sampled: 5/7/98
Client Contact: MI	TCH MORR	15			Date Received: 5/9/98
Client Project Numb	T. NA				Date Reported: 6/26/98
Client Project Name	SALTY				Sample Marriv: SALL
Client Project Name.	34611	DILLTIT CLOBURE			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 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 R	esults	Reported Detection Limits
Arsenic (Reg Limit =	= 5.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Barium (Reg Limit =	= 100.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Cadmium (Reg Limit = 1.0)		<rdl< td=""><td>1</td></rdl<>		1	
Chromium (Reg Lin	nit = 5.0)		<rdl< td=""><td></td><td>I</td></rdl<>		I
Lead (Reg Limit = 5	.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Selenium (Reg Limi	t = 1.0		<rdl< td=""><td></td><td>1</td></rdl<>		1
Silver (Keg Limit =	ט.כ)		KUL		,

Accura Analytical Laboratory, Inc.

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Client Sample ID: 18-CG

AALSample ID #: AB43378 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

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 =	= 100.0)		<rdl< td=""><td>1</td></rdl<>	1
Cadmium (Reg Limi	t = 1.0)		<rdl< td=""><td>I</td></rdl<>	I
Chromium (Reg Lim	nt = 5.0		<rdl< td=""><td>1</td></rdl<>	1
Lead (Keg Limit = 5	. <del>U)</del> Em 1.0)		~KUL ~DDI	1 7
Silver (Reg Limit = "	ι— 1.0) 5.0)		<rdi< td=""><td>, 1</td></rdi<>	, 1
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Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

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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

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Client Sample ID: 20-CG

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

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## 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

AALSample ID #: AB43381 Accurs Project #: 16546-A

Client Sample ID: 21-CG

#### 770 449 5477 P.09

# **WCCURA ANALYTICAL LABO** TORY, INC.

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 San	ple ID #:	AB43382	Accu	ra Project #:	16546-A
Client: Grace Oil			Date Sampled: 5/7/98		
Client Contact: MIT	CH MORRIS	S		Date F	Received: 5/9/98
Client Project Number	r- NA			Date I	Reported: 6/26/98
Client Project Name	CALTVR	UL DIT CLOSTIDE		Samp	a Matrix: SOIL
Citent Project Name:	SALII D	ILL FIT CLOSURE		Sauth	
Client Sample ID:	22-CG				
ANALYSIS: TCLP	Extraction P	rocedure		Method Ref:	1311
Date Analyzed:	6/22/98	Date Ext/Dig/Prep:	6/22/98	Result Units:	
Analyte Name			Analytical Resul	<u>is Rep</u>	orted 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 Rep	orted 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	<u>ts Rep</u>	orted Detection Limits
Arsenic (Reg Limit =	5.0)		<rd><rd>RDL</rd></rd>		ł
Barium (Reg Limit =	100.0)		<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 Lim	it = 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	= 1.0)		<rdl< td=""><td></td><td>1</td></rdl<>		1
Silver (Reg Limit = 5	i.0)		< <b>KDL</b>		L
i.					

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

Die sel large Organics CG-1 Z100 Z 150 3 0 120	PL 200 10 50	Pumpstation	-1 2 3 4	4500 300 110 85	1000 SD 10 10	
4 200	10	Ţ <sup>-</sup> - )		960	200	
8 1400	200	T - 2		2800	200	
9 940	200	- 3		320	50	
10 720	200	4	,	320	50	
11 34	10	ج		270	SD	
12 360	100	с (-		690	100	
13 350	30	ט ר		1500	200	
15 1200	260 2 <b>6</b> 0	(				
17 130	10					
18 860	200					
19 310	50					
20 150	70					
2) /000	200					
22 <u>56</u> 0	200					

FOU- Epinice Bought Garled Berlice) -010 Mips Atuk led 100 wast 01

6 8 12 12 7

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

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 Sample ID #: AB43776			Accura Project #: 16614			
Client: Grace Oil	Client: Grace Oil			Date	Sampled: 5/14/98	
Client Contact: M	ITCH MORRI	S	Date Received: 5/15 Date Reported: 5/20			
Client Project Numb	er: NA					
Client Project Name	: SALTY E	SILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	PUMP	SUMP #1				
ANALYSIS: BTEX	ζ			Method Ref:	5030A/8021B	
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/17/98	Result Units:	ug/Kg	
Analyte Name			Analytical Resul	<u>ts 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</td></rdl<>		5	
Xylenes			21		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 Resul	ts <u>Re</u>	ported Detection Limits	
Chloride			10,000		1000	
ANALYSIS: Diese	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 Resul	lts <u>Re</u>	eported Detection Limits	
Diesel Range Orgar	nics (DRO)		4,500		1000	
ANALYSIS: Gaso	line 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 Resu	<u>lts R</u>	eported Detection Limits	
Gasoline Range Or	ganics		<rdl< td=""><td></td><td>10</td></rdl<>		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 Resu	lts R	eported Detection Limits	
			/			
ACCURA ANALYTIC	AL LABORATOR	RY, INC. <rdl< td=""><td>= Less than Reported</td><td>Detection Limit</td><td>Pg 1 of 24</td></rdl<>	= Less than Reported	Detection Limit	Pg 1 of 24	
Client Sample ID: P	UMP 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	ene		119		0
ANALYSIS: X DF	RO OC Surroga	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

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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-Difluorobenzen 4-Bromofluorobenz	e ene		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	e ene		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

Accura Sa	mple ID #:	AB43778	Accura Project #: 16614			
Client: Grace Oil			Date Sampled: 5/14/9			
Client Contact: M	IITCH MORRI	S		Date	Received: 5/15/98	
Client Project Num	ber: NA			Date	Reported: 5/20/98	
Client Project Name	e: SALTY B	BILL PIT CLOSURE		Samp	ole Matrix: SOIL	
Client Sample ID:	PUMP	SUMP #3				
ANALVEIS, DTE	v				50204/80210	
ANALYSIS: BIE	A		5/10/00		5030A/8021B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	ug/Kg	
Analyte Name			Analytical Results	Rer	ported Detection Limits	
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Ethyl benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5	
l oluene Xylenes			<rdl <rdl< td=""><td></td><td>5</td></rdl<></rdl 		5	
					-	
ANALYSIS: Chlo	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 Results	<u>Re</u>	ported Detection Limits	
Chloride			8,500		1000	
ANALYSIS: Dies	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 Result	<u>Re</u>	ported Detection Limits	
Diesel Range Orga	nics (DRO)		110		10	
ANALYSIS: Gase	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 Result	<u>s Re</u>	ported Detection Limits	
Gasoline Range Or	ganics		<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANALYSIS: Met	als			Method Ref:	3050B/6010B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg	
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limits	
ACCURA ANALYTIC			= Less than Reported T	Detection Limit	Pg 5 of 74	
Client Sample ID: 1	PUMP SIIMP #7		AALSample ID #	: AB43778	Accura Project #: 16614	
			ra abounpio ab #			

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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	ts <u>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	e		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.

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

### LABORATORY REPORT

Accura Sa	mple ID #:	AB43779	779 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	oer: NA			Date Reported: 5/20/98	
Client Project Name	SALTY E	BILL PIT CLOSURE		Sample Matrix: SOIL	
Client Sample ID:	PUMP	SUMP #4			
ANALYSIS: BTE	<u>x</u>		M	lethod Ref: 5030A/8021B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98 R	esult 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	
l oluene Xylenes			<rdl< td=""><td>5</td></rdl<>	5	
Aylenes			<b>KDL</b>	J	
ANALYSIS: Chlo	ride in Soil		N	lethod Ref: 325.3M	
Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98 R	esult Units: mg/Kg	
Analyte Name			Analytical Results	Reported Detection Limits	
Chloride			9,100	1000	
ANALYSIS: Diese	el Range Orga	nics (DRO)	Ν	1ethod Ref: 3550B/8015B	
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/15/98 R	esult Units: mg/Kg	
Analyte Name			Analytical Results	Reported Detection Limits	
Diesel Range Orga	nics (DRO)		85	10	
ANALYSIS: Gase	line Range O	rganics (GRO)	·	Aethod Ref: 5030A/8015B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98 F	lesult Units: mg/kg	
Analyte Name			Analytical Results	Reported Detection Limits	
Gasoline Range Or	ganics		<rdl< td=""><td>10</td></rdl<>	10	
ANALYSIS: Met	als		Ν	Aethod Ref: 3050B/6010B	
Date Analyzed:	5/18/98	Date Ext/Dig/Pren:	5/18/98	Result Linits: mg/Kg	
Bute Analyzeu.	5/18/20	Date Ext Dig Trop.	5/10/26		
<u>Analyte Name</u>			Analytical Results	Reported Detection Limits	
ACCURA ANALYTIC	AL LABORATO	RY, INC. <rdl< td=""><td>= Less than Reported De</td><td>tection Limit Pg 7 of 24</td></rdl<>	= Less than Reported De	tection Limit Pg 7 of 24	
Client Sample ID: F	YUMP SUMP #4		AALSample ID #:	AB43779 Accura Project #: 16614	

STH 5

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	ie zene		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 Sai	nple ID #:	AB43780	Accura Project #: 16614			
Client: Grace Oil			Date Sampled: 5/14/98			
Client Contact: MI	TCH MORRI	S		Date	Received: 5/15/98	
Client Project Numb	er: NA		Date Reported: 5/20/98			
Client Project Name:	SALTY E	ILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	T-1					
ANALYSIS: BTEX			Ν	Aethod Ref:	5030A/8021B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98 R	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			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Tylenes			10		5	
ANALYSIS: Chlor	ide in Soil	<u></u>	Ν	Method Ref:	325.3M	
Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98 F	Result Units:	mg/Kg	
Analyte Name			Analytical Results	Re	ported Detection Limits	
Chloride			9,100		1000	
ANALYSIS: Diesel	Range Orga	nics (DRO)		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	Re	ported Detection Limits	
Diesel Range Organ	ics (DRO)		960		200	
ANALYSIS: Gasol	ine Range Or	ganics (GRO)	I	Method Ref:	5030A/8015B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/kg	
Analyte Name			Analytical Results	Re	eported Detection Limits	
Gasoline Range Org	anics		<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANALYSIS: Meta	<u>ls</u>			Method Ref:	3050B/6010B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/Kg	
Analyte Name			Analytical Results	<u>R</u>	eported Detection Limits	
ACCURA ANALYTICA	L LABORATOF	RY, INC. <rdl< td=""><td>= Less than Reported Do</td><td>etection Limit</td><td>Pg 9 of 24</td></rdl<>	= Less than Reported Do	etection Limit	Pg 9 of 24	
Client Sample ID: T-	-1		AALSample ID #:	AB43780	Accura Project #: 16614	

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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 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 Rest	<u>ilts Re</u> r	ported Detection Limits
1.4-Difluorobenzene			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
Data Analyzadi	5/19/09	Date Ext/Dig/Pren:	5/19/08	Pecult Units:	0/2
Date Analyzeu.	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

Accura Sample ID #: AB43781			Accura Project #: 16614			
Client: Grace Oil				Date	Sampled: 5/14/98	
Client Contact: MI	TCH MORRIS	4	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					
	<u></u>					
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 Resul	<u>ts Re</u>	ported Detection Limits	
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Ethyl benzene			21		5	
Toluene Xylenes			<rdl 170</rdl 		5 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 Resul	ts <u>Re</u>	ported Detection Limits	
Chloride			5,100		1000	
ANALYSIS: Diese	l Range Organ	ics (DRO)		Method Ref:	3550B/8015B	
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/Kg	
Analyte Name			Analytical Resul	lts <u>Re</u>	eported Detection Limits	
Diesel Range Organ	ics (DRO)		2,800		200	
ANALYSIS: Gaso	line Range Org	ganics (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	<u>lts R</u>	eported Detection Limits	
Gasoline Range Org	ganics		13		10	
ANAL VSIS. Moto	ls			Method Ref	3050B/6010B	
Date Analyzed	5/18/98	Date Ext/Dig/Pren	5/18/98	Result Units	mg/Kg	
Angle ( )	5/10/20	Sale Extra griep.				
Analyte Name			Analytical Resu	<u>its R</u>	eported Detection Limits	

ACCURA ANALYTICAL LABORATORY, INC.

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<RDL = Less than Reported Detection Limit

Pg 11 of 24

Client Sample ID: T-2

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•	Selenium			19	<b>(</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	<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	ts <u>R</u> e	eported Detection Limits
	1,4-Difluorobenzene 4-Bromofluorobenze	ene		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> e	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	ene		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: MI	TCH MORRIS	S		Date	Received: 5/15/98	
Client Project Numbe	er: NA			Date	Reported: 5/20/98	
Client Project Name:	SALTY B	ILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	T-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		2 2	Analytical Result	s Re	ported Detection Limits	
Panzana					5	
Ethyl benzene			<rdl <rdl< td=""><td></td><td>5</td></rdl<></rdl 		5	
Toluene			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Xylenes			<rdl< td=""><td></td><td>5</td></rdl<>		5	
ANALYSIS: Chlori	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 Limits	
Chloride			16,000		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	ts <u>Re</u>	eported Detection Limits	
Diesel Range Organi	ics (DRO)		320		50	
ANALYSIS: Gasol	ine Range Or	ganics (GRO)		Method Ref:	5030A/8015B	
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	eported Detection Limits	
Gasoline Range Org	anics		<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANALYSIS: Meta	ls			Method Ref:	3050B/6010B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	: mg/Kg	
Analyte Name			Analytical Resul	<u>ts R</u>	eported Detection Limits	
ACCURA ANALYTICA	LABORATOF	RY, INC. <rdl< td=""><td>= Less than Reported</td><td>Detection Limit</td><td>Pg 13 of 24</td></rdl<>	= Less than Reported	Detection Limit	Pg 13 of 24	

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	Result Units:	7471A
Analyte Name		с. 4 -	Analytical Red	sulte Re	
Mercury			<rd><rdl< td=""><td></td><td>0.5</td></rdl<></rd>		0.5
ANALYSIS: X BT	Mathod Ref:	5020 A (802 LB			
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	5030A/8021B
Analyte Name			Analytical Res	ults Re	Dorted Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenzen	ne		98		
ANALYSIS: X DRO Date Analyzed:	D QC Surro 5/17/98	gates (Soil) Date Ext/Dig/Prep:	5/15/98	Method Ref: Result Units:	3550B/8015B
Analyte Name			Analytical Res	ults Re	norted Datastian Limits
o-Terphenyl			99	<u></u>	0
ANALYSIS: X GRO	OQC Surro	gates (Soils)		Mathe J D - G	5020 1 /001 55
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	5030A/8015B
Analyte Name			Analytical Rest	<u>ilts Re</u> r	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

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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>	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	TCH MORRIS	5	Date Received: 5/15/98			
Client Project Numb	er: NA			Date Reported: 5/20/98		
Client Project Name	SALTY B	ILL PIT CLOSURE		Sample Matrix: SOIL		
Client Sample ID:	T-5					
ANALYSIS: BTEX	(		Me	thod Ref: 5030A/8021B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/1 <b>8/98</b> Res	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		
Aylenes			<rdl< td=""><td>2</td></rdl<>	2		
ANALYSIS: Chlor	ide in Soil		Method Ref: 325.3M			
Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98 Res	sult Units: mg/Kg		
Analyte Name			Analytical Results	Reported Detection Limits		
Chloride			15,000	1000		
ANALYSIS: Diese	l Range Organ	nics (DRO)	Me	thod Ref: 3550B/8015B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/1 <b>5/98</b> Re	sult Units: mg/Kg		
Analyte Name			Analytical Results	Reported Detection Limits		
Diesel Range Organ	ics (DRO)		270	50		
ANALYSIS: Gaso	line Range Or	ganics (GRO)	M	ethod Ref: 5030A/8015B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/1 <b>8/98</b> Re	sult Units: mg/kg		
Analyte Name			Analytical Results	Reported Detection Limits		
Gasoline Range Org	ganics		<rdl< td=""><td>10</td></rdl<>	10		
ANALYSIS: Meta	ls		М	ethod Ref: 3050B/6010B		
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/1 <b>8/98</b> Re	esult Units: mg/Kg		
Analyte Name			Analytical Results	Reported Detection Limits		
ACCURA ANALYTICA	LABORATOR	Y, INC. <rdl< td=""><td>= Less than Reported Dete</td><td>ection Limit Pg 17 of 24</td></rdl<>	= Less than Reported Dete	ection Limit Pg 17 of 24		
Client Sample ID: T-	-5		AALSample ID #:	AB43784 Accura Project #: 16614		

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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 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	e zene		105 110	0 0
ANALYSIS: X D	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
4-Bromofluoroben:	zene		67	U O 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 MORRI	S	Date Received: 5/15/98			
Client Project Numb	per: NA		Date Reported: 5/20/98			
Client Project Name	SALTY E	BILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	T-6					
ANALYSIS: BTE	x			Method Ref:	5030A/8021B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	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			<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			Method Ref:	325.3M	
Date Analyzed:	5/19/98	Date Ext/Dig/Prep:	5/19/98	Result Units:	mg/Kg	
Analyte Name			Analytical Result	ts <u>Re</u>	ported Detection Limits	
Chloride			12,000		1000	
ANALYSIS: Diese	el Range Orga	nics (DRO)		Method Ref:	3550B/8015B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/Kg	
Analyte Name			Analytical Result	t <u>s R</u> e	eported Detection Limits	
Diesel Range Orga	nics (DRO)		690		100	
ANALYSIS: Gase	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 Resul	ts <u>R</u> e	eported Detection Limits	
Gasoline Range Or	ganics		<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANALYSIS: Met	als			Method Ref:	3050B/6010B	
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units	: mg/Kg	
Analyte Name			Analytical Resul	lts R	eported Detection Limits	
ACCURA ANALYTIC	CAL LABORATO	RY, INC. <rdl< td=""><td>= Less than Reported</td><td>Detection Limit</td><td>Pg 19 of 24</td></rdl<>	= Less than Reported	Detection 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 B	<u>TEX QC Surr</u>	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 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 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 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: 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	<u>ilts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X B	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-Difluorobenzer	1,4-Difluorobenzene				0
4-Bromofluoroben	4-Bromofluorobenzene				0
ANALYSIS: X D	ANALYSIS: X DRO QC Surrogates (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 GRO QC Surrogates (Soils)				Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name	ι.		Analytical Rest	<u>ults R</u>	eported Detection Limits
1,4-Difluorobenzene			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>Re</u>	ported Detection Limits
Benzene Ethyl benzene Toluene Xylenes			<rdl <rdl <rdl <rdl< td=""><td></td><td>5 5 5 5</td></rdl<></rdl </rdl </rdl 		5 5 5 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	lts <u>Re</u>	ported Detection Limits
Chloride			60,000		2000
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 Resu	lts <u>Re</u>	ported Detection Limits
Diesel Range Organ	nics (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	lts Re	eported Detection Limits
Gasoline Range Or	ganics		<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 Resu	<u>lts R</u>	eported Detection Limits
ACCURA ANALYTIC	AL LABORATO	RY, INC. <rdl< td=""><td>= Less than Reported</td><td>Detection Limit</td><td>Pg 1 of 46</td></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	31		5
ANALYSIS: Metals - Mercury - RCRA		Method Ref:	7471A
Date Analyzed: 5/14/98 Date Ext/Dig/Prep:	5/14/98	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 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 Resul	t <u>s Re</u>	ported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenzene	119 91		0 0
ANALYSIS: X DRO QC Surrogates (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>	ported Detection Limits
o-Terphenyl	See narrativ	/e	0
ANALYSIS: X GRO QC Surrogates (Soils)		Method Ref:	5030A/8015B
Date Analyzed: 5/15/98 Date Ext/Dig/Prep:	5/15/98	Result Units:	%
Analyte Name	Analytical Resul	ts <u>Re</u>	eported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenzene	68 38		0 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

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: N	IITCH MORR	IS		Date Received: 5/9/98	
Client Project Number: NA				Date Reported: 5/19/98	
Client Project Nam	e: SALTY	BILL PIT CLOSURE		Sample Matrix: SOIL	
Client Sample ID:	2-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 R	Reported Detection Lim	

Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limits
Benzene Ethyl bonzono			<rdl< td=""><td></td><td>5</td></rdl<>		5
Euryr benzene					5
Yulanas					5
Aylenes			<rdl< td=""><td></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 Result	ts <u>Re</u>	ported Detection Limits
Chloride			10,000		1000
ANALYSIS: Diese	el Range Orga	nics (DRO)		Method Ref:	3550B/8015B
Date Analyzed:	5/15/98	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	nics (DRO)		150		10
ANALYSIS: Gaso	line Range O	rganics (GRO)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/kg
Angluta Nama			Analytical Decyl	ta Da	manted Detection Limits
Analyte Name			Analytical Resul	<u>ts Ke</u>	ported Detection Limits
Gasoline Range Or	ganics		<rdl< td=""><td></td><td>10</td></rdl<>		10
ANALYSIS: Meta	als			Method Ref:	3050B/6010B

 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 3 of 46

 Client Sample ID: 2-CG
 AALSample ID #: AB43362
 Accura Project #: 16546

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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	ene		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	ene		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	ene		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	ene		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 Sample II	D #: AB43364	Accura	a 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: 4-0	CG		
ANALYSIS: BTEX		۲ - ۰۰۰ - ۰۰۰ -	Method Ref: 5030A/8021B
Date Analyzed: 5/15/98	8 Date Ext/Dig/Prep:	5/15/98 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
Xylenes		<rdl <rdl< td=""><td>5 5</td></rdl<></rdl 	5 5
-			
ANALYSIS: Chloride in So	bil	1	Method Ref: 325.3M
Date Analyzed: 5/14/98	8 Date Ext/Dig/Prep:	5/14/98 I	Result Units: mg/Kg
Analyte Name		Analytical Results	Reported Detection Limits
Chloride		20,000	1000
ANALYSIS: Diesel Range	Organics (DRO)	1	Method Ref: 3550B/8015B
Date Analyzed: 5/16/98	8 Date Ext/Dig/Prep:	5/14/98	Result Units: mg/Kg
Analyte Name		Analytical Results	Reported Detection Limits
Diesel Range Organics (DRO	0)	200	50
ANALYSIS: Gasoline Ran	ge Organics (GRO)		Method Ref: 5030A/8015B
Date Analyzed: 5/15/9	8 Date Ext/Dig/Prep:	5/15/98	Result Units: mg/kg
Analyte Name		Analytical Results	Reported Detection Limits
Gasoline Range Organics		<rdl< td=""><td>10</td></rdl<>	10
ANALYSIS: Metals			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 Limits
ACCURA ANALYTICAL LABOR	ATORY, INC. <rdl< td=""><td>. = Less than Reported D</td><td>etection Limit Pg 7 of 46</td></rdl<>	. = Less than Reported D	etection 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	<u>s - 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 Resu	<u>llts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BT	EX OC Surr	ogates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	%
2 410 1 1141.9 2041	0,10,20	Date Dite Dig Trepi	5,10,70		, •
Analyte Name			Analytical Resu	<u>ilts Re</u>	eported Detection Limits
1,4-Difluorobenzene	•		97		0
4-Bromofluorobenze	ene		113		0
ANALYSIS: X DE	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	<u>ilts Re</u>	eported Detection Limits
o-Terphenyl			60		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>ilts R</u> e	eported Detection Limits
1,4-Difluorobenzen	e		77		0
4-Bromofluorobenz	ene		66		0

Accura Analytical Laboratory, Inc.

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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 Sa	mple ID #:	AB43365	Accura Project #: 16546			
Client: Grace Oil				Date	Sampled: 5/7/98	
Client Contact: M	ITCH MORRI	S		Date	Received: 5/9/98	
Client Project Num	ber: NA			Reported: 5/19/98		
Client Project Name	: SALTY E	BILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	5-CG					
ANALVSIS, RTF	x			Method Ref	5030 A /802 I B	
Date Analyzed:	5/15/98	Date Ext/Dig/Pren	5/15/98	Result Units	10/Kg	
Date Analyzed.	5/15/98	Date Ext Digit tep.	5/15/98	Result Offics.	ug/Kg	
Analyte Name			Analytical Results	<u>8 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	
i oluene Xylenes					5	
Xylenes					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 Results	<u>s Re</u>	ported Detection Limits	
Chloride			30,000		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>	ported Detection Limits	
Diesel Range Organ	nics (DRO)		<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANALYSIS: Gase	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 Re</u>	ported Detection Limits	
Gasoline Range Or	ganics		<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANALYSIS: Meta	ils			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 Re</u>	eported Detection Limits	
ACCURA ANALYTIC	AL LABORATOR	XY, INC. <rdl< td=""><td>= Less than Reported E</td><td>Detection Limit</td><td>Pg 9 of 46</td></rdl<>	= Less than Reported E	Detection Limit	Pg 9 of 46	
Client Sample ID: 5	-CG		AALSample ID #	: AB43365	Accura Project #: 16546	

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-Difluorobenz	ene		101		0
4-Bromofluorobe	nzene		110		0
ANALVSIS, Y	DPO OC Surro	gates (Soil)		Method Ref	3550B/8015B
AITALISIS: A	DRO QC Suno	gates (Soff)		Method Kel.	5550B/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	enzene		57		0

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# ACCURA ANALYTICAL 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

Accura San	nple ID #:	AB43366	Accu	ra Project #	#: 16546
Client: Grace Oil				Date	Sampled: 5/7/98
Client Contact: MI	ICH MORRIS			Date	Received: 5/9/98
Client Project Numbe	r: NA			Date	Reported: 5/19/98
Client Project Name:	SALTY BI	ILL 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 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
l oluene Xulenes			<rdl< td=""><td></td><td>5</td></rdl<>		5
Aylenes					5
ANALYSIS: Chlori	de 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 <u>Re</u>	ported Detection Limits
Chloride			60,000		1000
ANALYSIS: Diesel	Range Organ	ics (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 Organi	cs (DRO)		<rdl< td=""><td></td><td>10</td></rdl<>		10
<u>ANALYSIS:</u> Gasoli	ne Range Org	ganics (GRO)		Method Ref:	5030A/8015B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/kg

Analytical Results Reported Detection Limits
<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

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ACCURA ANALYTICAL LABORATORY, INC.

Client Sample ID: 6-CG

Analyte Name

Gasoline Range Organics

AALSample ID #: AB43366 Accura Project #: 16546

<RDL = Less than Reported Detection Limit

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Pg 11 of 46

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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 Re	esults Reported Detection Limits
Mercury			<rdl< td=""><td>0.5</td></rdl<>	0.5
ANALYSIS: X B	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 Re	esults Reported Detection Limits
1,4-Difluorobenzer 4-Bromofluoroben:	ne zene		100 100	0 0
ANALYSIS: X D	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 Re	esults Reported Detection Limit
o-Terphenyl			85	0
ANALYSIS: X G	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			Analytical Re	esults Reported Detection Limit
1,4-Difluorobenzer	ne		78	0
4-Bromofluoroben	zene		58	0

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Accura Analytical Laboratory, Inc.

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Selenium

## 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

Selenium			- 29		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:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	%
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
1,4-Difluorobenzene 4-Bromofluorobenzene			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	ene		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 Sa	ample ID #:	AB43368	Accura Project #: 16546			
Client: Grace Oil				Date Sa	mpled: 5/7/98	
Client Contact: M	IITCH MORRIS	5	Date Received: 5/9/98			
Client Project Number: NA Client Project Name: SALTY BILL PIT CLOSURE			Date Reported: 5/19/98			
				Sample	Matrix: SOIL	
Client Sample ID:	8-CG					
				······································		
ANALYSIS: BTE	<u>X</u>			Method Ref: 50	30A/8021B	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units: 1	ug/Kg	
Analyte Name			Analytical Result	s Repor	ted 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	
Aylenes					5	
ANALYSIS: Chio	oride in Soil			Method Ref: 32	25.3M	
Date Analyzed:	5/14/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg	
Analyte Name			Analytical Result	s Repor	rted Detection Limits	
Chloride			40,000		1000	
ANALYSIS: Dies	el Range Organ	nics (DRO)		Method Ref: 35	550B/8015B	
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg	
Analyte Name			Analytical Result	s <u>Repo</u>	rted Detection Limits	
Diesel Range Orga	nics (DRO)		1,400		200	
ANALYSIS: Gas	oline Range Or	ganics (GRO)		Method Ref: 50	)30A/8015B	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/kg	
Analyte Name			Analytical Resul	s Repo	rted Detection Limits	
Gasoline Range Or	rganics		<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANALYSIS: Met	als			Method Ref: 30	050B/6010B	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/12/98	Result Units:	mg/Kg	
Analyte Name		5 14	Analytical Resul	ts <u>Repo</u>	rted Detection Limits	
	·····					
ACCURA ANALYTIC	CAL LABORATOR	Y, INC. <rdl< td=""><td>= Less than Reported</td><td>Jetection Limit</td><td>Pg 15 of 46</td></rdl<>	= Less than Reported	Jetection Limit	Pg 15 of 46	
Client Sample ID: 8	s-CG		AALSample ID #	: AB43368 Acc	cura Project #: 16546	

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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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#### **RNALYTICAL LABORATOR** ACCURA

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 #: A	AB43369	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 BII	LL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID: 9-CG					
ANALVSIS, RTEV			Mathad Pafe	5020 A /9021 D	
Date Analyzed: 5/15/08	Date Ext/Dig/Pren:	5/15/08	Result Units:	5050A/8021B	
<i>Bute Mary2ea</i> . <i>3/13/76</i>	Date Ext Dig Trep.	5/15/98	Result Offics.	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	
Xylenes		<rdl <rdl< td=""><td></td><td>5</td></rdl<></rdl 		5	
ANALYSIS: Chloride 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 Re	ported Detection Limits	
Chlorida		<u>Co opo</u>	<u></u>		
Chloride		60,000		1000	
ANALYSIS: Diesel Range Organie	cs (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 Limits	
Diesel Range Organics (DRO)		940		200	
ANALYSIS: Gasoline Range Orga	anics (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	t <u>s Re</u>	ported Detection Limits	
Gasoline Range Organics		<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 Result	ts <u>Re</u>	eported Detection Limits	
ACCURA ANALYTICAL LABORATORY,	INC. <rdl< td=""><td>= Less than Reported I</td><td>Detection Limit</td><td>Pg 17 of 46</td></rdl<>	= Less than Reported I	Detection Limit	Pg 17 of 46	

Client Sample ID: 9-CG

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AALSample ID #: AB43369 Accura Project #: 16546

Selenium	ų		31		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:	5/15/98	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	ene		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 Sample ID #: AB43370			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	er: NA			Date	Reported: 5/19/98	
Client Project Name	: SALTY E	BILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	10-CG					
ANALYSIS: BTEX	<u> </u>			Method Ref:	5030A/8021B	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	ug/Kg	
Analyte Name			Analytical Results	<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	
Xylenes			<rdl <rdl< td=""><td></td><td>5</td></rdl<></rdl 		5	
ANALVSIS: Chlor	rida in Sail			Method Ref	325 3M	
Data Analyzadi	5/14/09	Data Ext/Dig/Bran	5/14/08	Recult Unite:	525.5W	
Date Analyzed.	5/14/90	Date Ext Dig/Frep.	5/14/90	Result Onits.	ing/Kg	
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limits	
Chloride			30,000		1000	
ANALYSIS: Diese	l 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>	ported Detection Limits	
Diesel Range Organ	ics (DRO)		720		200	
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 Re</u>	eported Detection Limits	
Gasoline Range Org	ganics		<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANALYSIS: Meta	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>ts R</u> e	eported Detection Limits	
ACCURA ANALYTIC	AL LABORATOR	RY, INC. <rdl< td=""><td>= Less than Reported D</td><td>Detection Limit</td><td>Pg 19 of 46</td></rdl<>	= Less than Reported D	Detection Limit	Pg 19 of 46	
Client Sample ID: 10	D-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	ene		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:	zene		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	ne		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	ene		75 60		0 0

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AALSample ID #: AB43371 Accura Project #: 16546

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## ACCURA NALYTICAL LABORATOR ONC.

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 #:	AB43372	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	ent Project Number: NA Da			Date	e Reported: 5/19/98
Client Project Name	: SALTY E	BILL PIT CLOSURE		Sam	ple Matrix: SOIL
Client Sample ID:	12-CG				
ANALVSIS: RTF	x			Method Ref	50304/8021B
Date Analyzed:	5/15/98	Date Ext/Dig/Prep	5/15/98	Result Units:	110/Kg
Dute / Huly Zou.	5,10,90	Bate Ene Big Hep.	5/15/20	Result Official	45.445
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
Xylenes			<rdl< td=""><td></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 Result	<u>s Re</u>	ported 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	t <u>s Re</u>	eported Detection Limits
Diesel Range Organ	nics (DRO)		360		100
ANALYSIS: Gaso	line Range OI	rganics (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	ts <u>R</u> e	eported Detection Limits
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 Resul	ts R	eported Detection Limits
ACCURA ANALYTIC	AL LABORATO	RY, INC. <rdl< td=""><td>= Less than Reported</td><td>Detection Limit</td><td>Pg 23 of 46</td></rdl<>	= Less than Reported	Detection Limit	Pg 23 of 46
Client Sample ID: 1	2-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 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> e	eported Detection Limits
	1,4-Difluorobenzene	e		71		0
	4-Bromofluorobenze	ene		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 ID #: AB43373			Accura Project #: 16546			
Client: Grace Oil				Date	Sampled: 5/7/98	
Client Contact: M	ITCH MORRIS	5		Date	e Received: 5/9/98	
Client Project Number: NA Client Project Name: SALTY BILL PIT CLOSURE				Date	e Reported: 5/19/98	
				Sam	ple Matrix: SOIL	
Client Sample ID:	13-CG					
ANALVEIS, DTEX	7			Mathad Dafi	5020 A /802 1 D	
ANALISIS: BIEA	<i>E / 1 E / 0 P</i>	Data Evit/Dia/Pron	5/15/09	Result United	5030A/8021B	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	ug/Kg	
<u>Analyte Name</u>			Analytical Result	t <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	
Xylenes			<rdl< td=""><td></td><td>5</td></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 Result	ts <u>Re</u>	ported Detection Limits	
Chloride			40,000		1000	
ANALYSIS: Diese	l Range Orgar	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	ts <u>Re</u>	ported Detection Limits	
Diesel Range Organ	ics (DRO)		350		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 Resul	ts Re	eported Detection Limits	
Gasoline Range Org	ganics		<rdl< td=""><td></td><td>10</td></rdl<>		10	
ANIAT VETE, Made	1.			Mathe J Dafe	20500/60100	
ANALYSIS: Mieta	<u>IS</u>		C (10 /00	Method Ref:	30208/00108	
Date Analyzed:	5/15/98	Date Ext/Dig/Prep:	5/12/98	Result Units:	mg/Kg	
Analyte Name			Analytical Resul	<u>ts R</u>	eported Detection Limits	
ACCURA ANALYTIC	AL LABORATOR	Y, INC. <rdl< td=""><td>= Less than Reported</td><td>Detection Limit</td><td>Pg 25 of 46</td></rdl<>	= Less than Reported	Detection Limit	Pg 25 of 46	
Client Sample ID: 13	3-CG		AALSample ID #	t: AB43373	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
<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-Difluorobenzene 4-Bromofluorobenzene			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:	ne zene		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

Accura Sample ID #: AB43374			Accura Project #: 16546			
Client: Grace Oil			Date Sampled: 5/7/98			
Client Contact: MITCH	I MORRIS	5	Date Received: 5/9/98			
Client Project Number:	NA		Date Reported: 5/19/98			
Client Project Name:	SALTY B	ILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	14-CG					
ANALYSIS: BTEX				Method Ref:	5030A/8021B	
Date Analyzed: 5/1	5/98	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			<rdl< td=""><td></td><td>5</td></rdl<>		5	
Xylenes			<rdl< td=""><td></td><td>5</td></rdl<>		5	
ANALYSIS: Chloride i	n Soil			Method Ref:	325.3M	
Date Analyzed: 5/1	4/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg	
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limits	
Chloride			40,000		1000	
ANALYSIS: Diesel Rar	nge Organ	nics (DRO)		Method Ref:	3550B/8015B	
Date Analyzed: 5/1	16/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg	
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limits	
Diesel Range Organics (	DRO)		<rdl< td=""><td></td><td>50</td></rdl<>		50	
ANALYSIS: Gasoline I	Range Or	ganics (GRO)		Method Ref:	5030A/8015B	
Date Analyzed: 5/1	15/98	Date Ext/Dig/Prep:	5/15/98	Result Units:	mg/kg	
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limits	
Gasoline Range Organics	S		<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 Result	ts <u>R</u> e	eported Detection Limits	
ACCURA ANALYTICAL LA	BORATOR	Y INC <rdi< td=""><td>= Less than Reported I</td><td></td><td>Pg 27 of 46</td></rdi<>	= Less than Reported I		Pg 27 of 46	
Client Sample ID: 14-CG		.,	AALSample ID #	: AB43374	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	ne		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	ene		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 Sample ID	#: AB43375	Accura Project #: 16546			
Client: Grace Oil			Date Sampled: 5/7/98		
Client Contact: MITCH MO	RRIS		Date Received: 5/9/98		
Client Project Number: NA			Date Reported: 5/19/98		
Client Project Name: SALT	Y BILL PIT CLOSURE		Sample Matrix: SOIL		
Client Sample ID: 15-0	CG				
ANALVCIC, DTEX			4-4-4 D-6 5020 4 /0021 D		
ANALYSIS: BIEX	Data Eut/Dia/Dram	5/1C/09	Vietnod Ker: 5030A/8021B		
Date Analyzed: 5/16/98	Date Ext/Dig/Prep:	5/16/98	Kesuit 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		
l oluene Vylenes		15	5		
Xylenes		45	5		
ANALYSIS: Chloride 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	Reported Detection Limits		
Chloride		30,000	1000		
ANALYSIS: Diesel Range O	rganics (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	Reported Detection Limits		
Diesel Range Organics (DRO)	)	1,200	200		
ANALYSIS: Gasoline Range	e Organics (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	Reported Detection Limits		
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 Results	Reported Detection Limits		
ACCURA ANALYTICAL LABORA	TORY, INC. <rdi< td=""><td>= Less than Reported D</td><td>etection Limit Pg 29 of 46</td></rdi<>	= Less than Reported D	etection Limit Pg 29 of 46		
Client Sample ID: 15-CG	-,	AALSample ID #:	AB43375 Accura Proiect #: 16546		

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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 4-Bromofluorobenze	ne		111 105		0 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 4-Bromofluorobenze	ene		68 57		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 #: A	AB43376	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 BII	LL PIT CLOSURE		Sam	ple Matrix: SOIL
Client Sample ID: 16-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>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< td=""><td></td><td>5</td></rdl<>		5
Aylenes				5
ANALYSIS: Chloride 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	<u>s Re</u>	ported Detection Limits
Chloride		30,000		1000
ANALYSIS: Diesel Range Organi	cs (DRO)		Method Ref:	3550B/8015B
Date Analyzed: 5/17/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg
Analyte Name		Analytical Result	<u>s Re</u>	ported Detection Limits
Diesel Range Organics (DRO)		780		200
ANALYSIS: Gasoline Range Org	anics (GRO)		Method Ref:	5030A/8015B
Date Analyzed: 5/16/98	Date Ext/Dig/Prep:	5/16/98	Result Units:	mg/kg
Analyte Name		Analytical Result	<u>s Re</u>	ported Detection Limits
Gasoline Range Organics		<rdl< td=""><td></td><td>10</td></rdl<>		10
ANALVER, Matala			Mathad Pafe	20500/60100
Data Analyzadi 5/15/00	Dete Eut/Di-/Dress	5/10/09	Degult Uniter	
Date Analyzeu: 5/15/98	Date Ext Dig/Prep:	5/12/98	Result Onlis:	ing/Kg
Analyte Name		Analytical Result	<u>s R</u> e	eported Detection Limits
ACCURA ANALYTICAL LABORATORY	, INC. <rdl< td=""><td>= Less than Reported D</td><td>Detection Limit</td><td>Pg 31 of 46</td></rdl<>	= Less than Reported D	Detection Limit	Pg 31 of 46
Client Sample ID: 16-CG		AALSample ID #	: AB43376	Accura Project #: 16546

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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	EX QC Surrog	ates (Soils)	5/16/08	Method Ref:	5030A/8021B
Date Analyzed:	5/10/98	Date Ext Dig/Frep.	5/10/98	Result Omis:	70
Analyte Name			Analytical Resul	<u>ts Re</u>	ported Detection Limits
1,4-Difluorobenzene	79		110		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
ANALYSIS: X GRO QC Surrogates (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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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

Accura Sample II	)#: AB43377	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: 17	-CG				
ANALVSIS, PTEV		Mathac	1 Pof 5030 A /8071 P		
Date Analyzed: 5/16/98	Date Ext/Dig/Pren-	5/16/08 Result	Unite: ug/Ka		
Date Analyzed. 5/10/96	bale Extrolg/Flep.	5/10/98 Result	oms. 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		
Xylenes		<rdl <rdl< td=""><td>5</td></rdl<></rdl 	5		
ANALYSIS: Chloride in So	<u>il</u>	Method	I Ref: 325.3M		
Date Analyzed: 5/14/98	B Date Ext/Dig/Prep:	5/14/98 Result	Units: mg/Kg		
Analyte Name		Analytical Results	Reported Detection Limits		
Chloride		30,000	1000		
ANALYSIS: Diesel Range (	Organics (DRO)	Method	1 Ref: 3550B/8015B		
Date Analyzed: 5/17/98	B Date Ext/Dig/Prep:	5/14/98 Result	Units: mg/Kg		
Analyte Name		Analytical Results	Reported Detection Limits		
Diesel Range Organics (DRO	D)	130	10		
ANALYSIS: Gasoline Rang	ge Organics (GRO)	Metho	d Ref: 5030A/8015B		
Date Analyzed: 5/16/98	8 Date Ext/Dig/Prep:	5/16/98 Result	Units: mg/kg		
Analyte Name		Analytical Results	Reported Detection Limits		
Gasoline Range Organics		<rdl< td=""><td>10</td></rdl<>	10		
ANALYSIS: Metals		Metho	d 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 Limits		
ACCURA ANALYTICAL LABOR	ATORY, INC. <rdi< td=""><td>= Less than Reported Detection</td><td>Limit Pg 33 of 46</td></rdi<>	= Less than Reported Detection	Limit Pg 33 of 46		
Client Sample ID: 17-CG	· · · · · · · · · · · · · · · · · · ·	AALSample ID #: AB43	377 Accura Project #: 16546		

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Selenium			15		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 Res	ults <u>Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
<u>ANALYSIS: X BI</u>	TEX QC Suri	rogates (Soils)		Method Ref:	5030A/8021B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/16/98	Result Units:	%
Analyte Name			Analytical Res	<u>ults Re</u>	eported Detection Limits
1,4-Difluorobenzen 4-Bromofluorobenz	e ene		108 106		0 0
ANALYSIS: X DI	RO QC Surro	ogates (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
ANALYSIS: X_G	RO QC Surr	ogates (Soils)		Method Ref:	5030A/8015B
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/16/98	Result Units:	%
Analyte Name			Analytical Res	ults Re	eported Detection Limits
1,4-Difluorobenzen 4-Bromofluorobenz	e zene		72 50		0 0

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## ACCURINALYTICAL LABORATOR INC.

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

## LABORATORY REPORT

Accura Sample ID #: AB43378			Accura Project #: 16546			
Client: Grace Oil			Date Sampled: 5/7/98			
Client Contact: MIT	CH MORRIS	5	Date Received: 5/9/98			
Client Project Number	: NA		Date Reported: 5/19/98			
Client Project Name:	SALTY B	ILL PIT CLOSURE		Sam	ple Matrix: SOIL	
Client Sample ID:	18-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 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	
Xylenes			29		5	
ANALYSIS: Chlorid	e 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>	ported Detection Limits	
Chloride			30,000		1000	
ANALYSIS: Diesel F	Range Organ	ics (DRO)		Method Ref:	3550B/8015B	
Date Analyzed:	5/17/98	Date Ext/Dig/Prep:	5/14/98	Result Units:	mg/Kg	
Analyte Name			Analytical Result	<u>es Re</u>	ported Detection Limits	
Diesel Range Organics	s (DRO)		860		200	
ANALYSIS: Gasolin	e Range Or	ganics (GRO)		Method Ref:	5030A/8015B	
Date Analyzed:	5/16/98	Date Ext/Dig/Prep:	5/16/98	Result Units:	mg/kg	
Analyte Name			Analytical Result	ts <u>Re</u>	eported Detection Limits	
Gasoline Range Organ	nics		<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 Resul	ts <u>R</u> e	eported Detection Limits	
ACCURA ANALYTICAL	LABORATOR	Y, INC. <rdl< td=""><td>= Less than Reported I</td><td>Detection Limit</td><td>Pg 35 of 46</td></rdl<>	= Less than Reported I	Detection Limit	Pg 35 of 46	

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Client Sample ID: 18-CG

AALSample ID #: AB43378 Accura Project #: 16546

Selenium	U		20		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	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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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

### LABORATORY REPORT

Accura Sai	mple ID #:	AB43379	Accura Project #: 16546		
Client: Grace Oil				Date	Sampled: 5/7/98
Client Contact: MI	TCH 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		Samj	ple Matrix: SOIL
Client Sample ID:	19-CG				
ANALVSIS, DTEV	,			Mathad Pafe	5030 4 /8031 B
Date Analyzed:	5/18/08	Date Ext/Dig/Pren:	5/18/08	Recult Units:	ug/K g
Date Analyzeu.	J/10/90	Date Ext Dig/Tep.	5/18/98	Result Onlis.	ug/Ng
Analyte Name			Analytical Results	<u>s Re</u>	ported Detection Limits
Benzene			<rdl< td=""><td></td><td>5</td></rdl<>		5
Ethyl benzene			<rdl <rdl< td=""><td></td><td>5</td></rdl<></rdl 		5
Xylenes			<rdl< td=""><td></td><td>5</td></rdl<>		5
ANALVSIS, Chlor	ida in Sail			Mathod Pafe	275 314
Date Analyzed:	5/14/08	Date Ext/Dig/Prep:	5/14/08	Posult Unite:	ma/Ka
Date Analyzed.	5/14/90	Date Ext/Dig/Fiep.	5/14/98	Result Units.	mg/Kg
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limits
Chloride			20,000		1000
ANALYSIS: Diese	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>	ported Detection Limits
Diesel Range Organ	ics (DRO)		310		50
ANALYSIS: Gasol	ine Range Or	ganics (GRO)		Method Ref:	5030A/8015B
Date Analyzed:	5/18/98	Date Ext/Dig/Prep:	5/18/98	Result Units:	mg/kg
Analyte Name			Analytical Result	<u>s Re</u>	ported Detection Limits
Gasoline Range Org	anics		<rdl< td=""><td></td><td>10</td></rdl<>		10
ANALYSIS: Meta	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	ts <u>R</u> e	eported Detection Limits
ACCURA ANALYTICA	L LABORATOF	RY, INC. <rdl< td=""><td>= Less than Reported I</td><td>Detection Limit</td><td>Pg 37 of 46</td></rdl<>	= Less than Reported I	Detection Limit	Pg 37 of 46

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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 B	<b>FEX QC Sur</b>	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-Difluorobenzen 4-Bromofluorobenz	e zene		101 111		0 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 4-Bromofluorobenz	e zene		70 61		0 0

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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>
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Client Sample ID: 20-CG

AALSample ID #: AB43380 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>lts R</u>	eported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
ANALYSIS: X BI	<u>TEX QC Suri</u>	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-Difluorobenzen	e		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	e		80		0
4-Bromofluorobenz	ene		79		0

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

#### LABORATORY REPORT

Accura Sample ID #: A	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,		
Client Project Name: SALTY BILL	L PIT CLOSURE		Sam	ple Matrix: SOIL
Client Sample ID: 21-CG		, 		
ANALVEIC. DTEY			Mathad Pafi	50204/80218
Date Analyzed: 5/17/08	Date Ext/Dig/Pren	5/17/08	Result Linits:	ug/Kg
Date Analyzeu. 5/1//98	Date Ext Dig/Frep.	5/1//90	Result Onits.	ug/Ng
Analyte Name		Analytical Results	<u>Re</u>	ported Detection Limits
Benzene		<rdl< td=""><td></td><td>5</td></rdl<>		5
Ethyl benzene Toluene		<rd><rd><rd><rd><rd><rd><rd><rd><rd><rd></rd></rd></rd></rd></rd></rd></rd></rd></rd></rd>		5
Xylenes		<rdl< td=""><td></td><td>5</td></rdl<>		5
ANALYSIS: Chloride 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	<u>s Re</u>	ported Detection Limits
Chloride		30,000		1000
ANALYSIS: Diesel Range Organics	s (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>	ported Detection Limits
Diesel Range Organics (DRO)		1,000		200
ANALYSIS: Gasoline Range Orga	nics (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	<u>s Re</u>	ported Detection Limits
Gasoline Range Organics		<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 Result	<u>s R</u> e	eported Detection Limits
ACCURA ANALYTICAL LABORATORY, I	INC. <rdl< td=""><td>= Less than Reported D</td><td>etection Limit</td><td>Pg 41 of 46</td></rdl<>	= Less than Reported D	etection Limit	Pg 41 of 46

Client Sample ID: 21-CG

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Selenium			21		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 Resu	<u>lts Re</u>	ported Detection Limits
Mercury			<rdl< td=""><td></td><td>0.5</td></rdl<>		0.5
<u>ANALYSIS: X B</u>	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	e		102		0
4-Bromofluorobenz	zene		110		U
ANALYSIS: X_D	RO QC Surro	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 narrat	ive	0
ANALYSIS: X G	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	lts <u>R</u> e	ported Detection Limits
1,4-Difluorobenzer	ie		75		0
4-Bromofluoroben:	zene		63		0

asmith

Accura Analytical Laboratory, Inc.

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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

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ACCURA ANALYTICAL LABORATORY, INC.

<RDL = Less than Reported Detection Limit

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Pg 43 of 46

Client Sample ID: 22-CG

AALSample ID #: AB43382 Accura Project #: 16546

	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 4-Bromofluorobenze	ne		99 113		0 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	<u>lts Re</u>	eported Detection Limits
	1,4-Difluorobenzene 4-Bromofluorobenze	ene		79 64		0 0

admith

Accura Analytical Laboratory, Inc.

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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 #:	Accura Project #: 16546			
Client: Grace Oil			Date	Sampled: 5/7/98
Client Contact: MITCH MORRI	S		Date	Received: 5/9/98
Client Project Number: NA			Date	Reported: 5/19/98
Client Project Name: SALTY E	BILL PIT CLOSURE		Samp	ole Matrix: SOIL
Client Sample ID: METH	OD BLANK			
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 Result	<u>s Re</u> j	ported Detection Limits
Benzene		<rdl< td=""><td></td><td>5</td></rdl<>		5
Ethyl benzene		<rdl< td=""><td></td><td>5</td></rdl<>		5
l oluene Xylenes		<rdl <rdl< td=""><td></td><td>5</td></rdl<></rdl 		5
		1.22		-
ANALYSIS: Chloride 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>	ported Detection Limits
Chloride		<rdl< td=""><td></td><td>10</td></rdl<>		10
ANALYSIS: Diesel 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>	ported Detection Limits
Diesel Range Organics (DRO)		<rdl< td=""><td></td><td>10</td></rdl<>		10
ANALYSIS: Gasoline Range Or	rganics (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	ts <u>Re</u>	ported Detection Limits
Gasoline Range Organics		<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 Resul	<u>ts Re</u>	ported Detection Limits
ACCURA ANALYTICAL LABORATOR	RY, INC. <rdl< td=""><td>= Less than Reported I</td><td>Detection Limit</td><td>Pg 45 of 46</td></rdl<>	= Less than Reported I	Detection Limit	Pg 45 of 46
Client Sample ID: METHOD BLAN	K	AALSample ID #	: AB43383 A	Accura Project #: 16546

	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 4-Bromofluorobenze	e ene		102 102		0 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 4-Bromofluorobenz	e ene		87 62		0 0

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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

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CORTN	INE	в.	GRACI	F
				- 4

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

(505)	887-5581		FAX:	(505)	885-8497
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\* \* \* \* \*

5/26/98 DATE:

PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

NAME: Martyne Kieling	
FIRM: OCD	ME 4 ( ) ( )
FAX NO: (505) 827-8177	
FROM: Mitch Maria	
TOTAL NUMBER OF PAGES INCLUDING COVER PAGE:	7
BRIEF DESCRIPTION OF TRANSMITTAL:	
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If you DO NOT receive all the pages indicated above, please call us back as soon as possible.

34 6 64

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

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### MEMORANDUM OF MEETING OR CONVERSATION

Telephone Personal	Time 8:45	Date 4/ /15/98
Originating Party	4	Other Parties
Martyne Kicling		Gene Lee Consulting
U U		For Corrine Grad SalhBill
		·
Stufus of Clemop		
/		
Discussion Will be Sendin	ra 72 ho	un Notice to SF + Attesia
office Pit Remediati	on to start	Followed by Sumps &
Tank Aren		
· · · · · · · · · · · · · · · · · · ·		
Conclusions or Agreements	,,	
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	<u></u>	
Distribution	Si	gned Martin 226.
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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:

I Arles

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

Dehnindecostaly-to 66-2) Map with Suple Locations cross Ref # on Analysis CG T, Pump Station 1-9 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 P.O.Box 1980	, Hobbs, NM 88241-1980	Energy, Minerals and Natur	al Resources Department	Form C-117 A
DISTRICT II P.O. Drawer I	DD. Artesia, NM 88211-0719	<b>O</b> OIL CONSERVAT		Revised 4-1-91
DISTRICT III		P.O. Box	2088	_
1000 Rio Braz	2018 Rd, Aztec, NM 87410	Santa Fc, New Mex	.ico 87504-2088 P	ERMIT NO. <u>A 10627</u>
TANK C	LEANING, SEDIMENT OIL RI	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_ <u>Salty</u> Bill	Sult	Location Jon 3	123 Kaloe
OPERATION	TO BE PERFORMED:			U.L. • Sec. • 1 wp. • Age.
	Tank Cleaning	Sediment Oil Removal	Transportation of Miscellaneous Hydroc	arbons
	Operator or Owner Represent	ative authorizing work	I (INACL	NOV 1997
	Date Work to be Performed	Willin Lik 17, 17 17	· · · · · · · · · · · · · · · · · · ·	RECEIVED
	TANK CLEANING DA	TA Tank Number	Volume	OCD ARIESIA
	SEDIMENT OIL OR M	Tank Type ISCELLANEOUS HYDROCAR	Volume Below Lo RBON DATA	ad Line
	Sediment Oil from:	] Pit [] Cellar [] Other		C 20075.0
а <b>с</b>	MISCELLANEOUS OII Tank Bottoms From:	L 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 OU	RV. Dumine		Ponde or firmuelle Dither
	(Explain)			
	Location of Destruction			
	Justification of Destruction			
CERTIFICAT	TION : (APPLICATION MAY	BE MADE BY EITHER OF THE FOR	LLOWING)	
	Owner	is the and complete to all dest of my	Transmoster , E.T.	Ina
	By		Address Dor 11085	arlihad nm 88220
	Tide	<u></u>	Signature Lin Re	· ·
	Date		Tile Olhie Mind	Date 11-19-97
)IL CONSER	VATION DIVISION	DV.		
pproved By	BETTY ROLLINS	Title		Date NOV 2 4 1997
	•	t		DISTRIBUTION BY OCD
COPY OF THIS	FORM MUST BE ON LOCATIC	ON DURING TANK CLEANING, RE ST BE PRESENTED WITH TANK B	MOVAL OF SEDIMENT OIL OR OTTOMS, SEDIMENT OIL	File
OR MISCELLANI	EOUS HYDROCARBONS AT 11	IE TREATING PLANT TO WILICH I	T IS DELIVERED.	1 Operator
				Transporter (2)
		.*	•	
		N		

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CORINNE B. GRACE

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3722	National Parks Hwy. P.O. Box 1418 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:	(505) 827-8177
FROM: _	Mitchell Morris
	·
TOTAL N	NUMBER OF PAGES INCLUDING COVER PAGE: 3
BRIEF I	DESCRIPTION OF TRANSMITTAL:
	Dene Lee Response
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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 **becemed** 

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	Pay. Minerals and Natural Resources De	
DISTRICT II		Form C-117 A Revised 4-1-91
P.O. Drawer DD, Artesia, NM 88211-0719	OIL CONSERVATION DIVIS	ION
DIS IRIC I III 1000 Rio Brame 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
And the second sec	A.4	22 millan show Pallad
Operation of Owner Corner Corner	A line AD	as man 1 2 2/ T22 1 Price
LEASE OF FROMING		U.L Sec Twp Rge.
OFERATION TO BE PERFORMED: Tank Cleaning		fincellaneous Hydrocarbons
Operation of Owner Represen	Hative authorizing work Correine Grace	
Date Work to be Performed	Noregran fuex 19 1997	NUV, 1882
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	Tank Tyte	Volume Below Lord Line
SEDIMENT OIL OR A	AISCELLANEOUS HYDROCARBON DATA	Second St
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MISCELLANEOUS ()	LL	
		an System
(Will (Gapter)		
YOLUMEAND DESTINATION: Destination (Name and Loca	Estimated Volume Robis. ation of treating plant or other (acility) <u>control Ke</u>	Find test volume of good oilBbls. (Not required prior to Division approved) GRALENG,
DESTRUCTION OF SEDIMENT ()11 (Explain)	BX: Duming . Pit Dispo	sal []] Use on Roads or finewalls [] Other
Location of Destruction		
Junification of Destruction_		
CERTIFICATION : (APPLICATION MA)	Y BE MADE BY FITHER OF THE FOLLOWING)	
I breeby carily that the information abov	e is the and complete to the best of my knowledge and beli	iel.
- Owner	Transpon	Etch, Inc.
By	Address Z	Boy Uars, Carlsbad, M.M. 88220
Tide	Signature	Lica Brie
Date	Title	file 71/109 Dave 11-19-97
OIL CONSERVATION DIVISION	ν. V	ý ů
Approved By BETTY ROLLINS	) BY Title	Dr. NOV 2 4 1997
A COPY OF THIS FORM MUST BE ON LOCATI MISCELLANEOUS HYDROCARBONS, AND MI OR MISCELLANEOUS HYDROCARBONS AT T	ON DURING TANK CLEANING, REMOVAL OF SEDIN UST BE PRESENTED WITH TANK BOTTOMS, SEDIM HIE TREATING PLANT TO WHICH IT IS DELIVERED.	MENT OLL OR ENT OLL i file i Treasporter (2)

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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,

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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

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BA	LANCE DUE:	200.00	······································			
		200.00	PO Number	Terms		Project
				Net 30	AEI	N ALB-810
Quantity		Descriptio	n	Rat	e	Amount
1	6010 Metals			200	0.00	200.00
Accessic Authoriz	on #: 801310 zed by: Bill C	lson		ני	OTAL:	200.00

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.

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Kimberly D. McNeill Project Manager

MR: mt

Enclosure



KM, the file

H. Mitchell Ruberstein, Ph. D. General Manager

American Environmental Network, Inc.

CLIENT	: NMOCD	AEN I.D.	: 801310
PROJECT #	: SALTY BILL	DATE RECEIVED	: 10/29/97
PROJECT NAME	: SALTY BILL	REPORT DATE	: 1/8/98
AEN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	9710280910	AQ	10/28/97
02	9710281105	AQ	10/28/97
02	9710281105	AQ	10/28/97

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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

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Page: 2

Project Na	ame: 7	10505
Date Rece	ived: 1	.2/04/1997

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) 620-0393 FAX 17400 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	<pre>% Recovery</pre>	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					MSD					
	Spike	Sample	Spike		Percent	MSD	Spike		Percent	MS/MSD	
Analyte	Result	Result	Amount	Units	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

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

# 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
Analysis	Limit	Units	Analyzed
ND	0.05	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.002	mg/L	12/09/1997
ND	0.01	mg/L	12/09/1997
ND	0.002	mg/L	12/09/1997
ND	0.05	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.01	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.05	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.2	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.2	mg/L	12/09/1997
ND	0.01	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
ND	0.005	mg/L	12/09/1997
	Blank Analysis ND ND ND ND ND ND ND ND ND ND ND ND ND	Blank         Report           Analysis         Limit           ND         0.005           ND         0.005           ND         0.005           ND         0.005           ND         0.005           ND         0.002           ND         0.002           ND         0.005           ND         0.01           ND         0.01           ND         0.01           ND         0.01           ND         0.01           ND         0.01	Blank         Report           Analysis         Limit         Units           ND         0.05         mg/L           ND         0.005         mg/L           ND         0.005         mg/L           ND         0.005         mg/L           ND         0.005         mg/L           ND         0.002         mg/L           ND         0.01         mg/L           ND         0.002         mg/L           ND         0.005         mg/L           ND

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

А 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	Interfective       Phoenix       Pensacola         PROJECT MANAGER:       51         COMPANY:       11         ADDRESS:       20 YD         PHONE:       527         FAX:       6527         BILL TO:       525         COMPANY:       527         ADDRESS:       527
Vetwork (NM), Inc. • 2709-D Pa			2 2		COMMENTS: FI)	METHANOL PRESER	CERTIFICATION REC	(RUSH) 24hr	PRIOR AUTHO							 10/28/11/05/W	1 01 PO 10/22/01	DATE TIME M	· Portland · Pleasant H Olson Conservation S. Reclecco S. Reclecco S. Reclecco S. P. C. L. C. S. J 8177 
1 American Freeway, NE • Albu			ha con/re		(ED FEE 🗌		UIRED: NM SDW	48hr [] 72hr [] 1 WEE	RIZATION IS REQUIRE							-ka 1021	10-14	ATRIX LABI.D. Pet	troleum Hydrocarbons (418.1) TRPH
querque, New Mexico 87107			Client Nepl	-			A OTHER	(NORM)	D FOR RUSH PROJE									(ME Gas BT) BTI	B015) Gas/Purge & Trap soline/BTEX & MTBE (M8015/8020) XE/MTBE (8020) EX & Chlorinated Aromatics (602/8020) EX/MTBE/EDC & EDB (8020/8010/Short)
-	Company:	Printed Name:	Signature:	<b>Micelym</b>	O WWW	William 6	Printed Name:	D (Junkudis X1)	CTS RELINQUIS									Chl 504 Pol Voli	lorinated Hydrocarbons (601/8010) 0/0 / 8020 4 EDB / DBCP / DBC
DISTRIBUTIO		Date:	Time:	$\mathbf{w} = \mathbf{w}$		1/2m 10/29/97	Dale: / /_	Time	HED BY: 1550 1.	LANG								Pes Her Basi	sticides/PCB (608/8080) rbicides (615/8150) e/Neutral/Ac:d Compounds GC/MS (625/8270)
N: White, Canary - AEN Pin		1971 Stan		(DECEVED BY (CAB)	Company:		Printed Name: Date	Signature	<b>RELINQUISHED BY:</b>		(0/a/7					 X		Ge A Pric Tarc RC	eneral Chemistry: Cation Anion in fate No. pority Pollutant Metals (13) get Analyte List Metals (23) RA Metals (8)
1k - ORIGINATOF								C	2		**			· · · · · · · · · · · · · · · · · · ·		N	-	RC Mei	RA Metals by TCLP (Method 13,11) tais: $\circ TCAP 6 O/O Pl-3$ H- + Se by AA MBER OF CONTAINERS

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Imerican Environmental Netherk (N.M.), 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

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

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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

SAMPLE		DATE	DATE	DATE	DIL.
PROJECT NAME	: SALTY BILL				
PROJECT #	: SALTY BILL				
CLIENT	: NMOCD			AEN I.D	.: 710420
TEST	8020)				

			SAMPLED	ENIRACIED	ANALIZED	FACIOR
01 9710280910		AQUEOUS	10/28/97	NA	11/5/97	50
PARAMETER	DET. LIMIT	UN	ITS	01		
BENZENE	0.5	UG	J/L	2600		
BROMODICHLORMETHANE	0.2	UG	S/L	< 10		
BROMOFORM	0.5	UG	3/L	< 25		
BROMOMETHANE	1.0	UG	6/L_	< 50		
CARBON TETRACHLORIDE	0.2	UG	S/L	< 10		
CHLOROBENZENE	0.5	UG	9/L	< 25		
CHLOROETHANE	0.5	UG	5/L	< 25		
CHLOROFORM	0.5	UG	S/L	< 25		
CHLOROMETHANE	1.0	UG	G/L	< 50		
DIBROMOCHLOROMETHANE	0.2	UG	6/L	< 10		
1,2-DIBROMOETHANE (EDB)	0.2	UG	S/L	< 10		
1,2-DICHLOROBENZENE	0.5	UG	S/L	< 25		
1,3-DICHLOROBENZENE	0.5	UG	G/L	< 25		
1,4-DICHLOROBENZENE	0.5	UG	6/L	<,25		
1,1-DICHLOROETHANE	0.3	UG	S/L	< 15		
1,2-DICHLOROETHANE (EDC)	0.5	UG	5/L	< 25		
1,1-DICHLOROETHENE	0.2	UG	5/L	< 10		
cis-1,2-DICHLOROETHENE	0.2	UG	5/L	< 10		
trans-1,2-DICHLOROETHENE	1.0	UG	5/L	< 50		
1,2-DICHLOROPROPANE	0.2	UG	5/L	< 10		
cis-1,3-DICHLOROPROPENE	0.2	UG	S/L	< 10		
trans-1,3-DICHLOROPROPENE	0.2	UG	5/L	< 10		
ETHYLBENZENE	0.5	UG	i/L	440		
METHYL-t-BUTYL ETHER	2.5	UG	5/L	< 125		
METHYLENE CHLORIDE	2.0	UG	5/L	< 100		
1,1,2,2-TETRACHLOROETHANE	0.5	UG	5/L	< 25		
TETRACHLOROETHENE	0.5	UG	5/L	< 25		
TOLUENE	0.5	UG	i/L	2400		
1,1,1-TRICHLOROETHANE	1.0	UG	5/L.	< 50		
1,1,2-TRICHLOROETHANE	0.2	UG	S/L	< 10		
TRICHLOROETHENE	0.3	UG	S/L	< 15		
TRICHLOROFLUOROMETHANE	0.2	UG	6/L	< 10		
VINYL CHLORIDE	0.5	UG	G/L	< 25		
TOTAL XYLENES	0.5	UG	5/L	950		
SURROGATE:						,
BROMOCHLOROMETHANE (%)				111		
SURROGATE LIMITS	(73 - 117)					
TRIFLUOROTOLUENE (%)	. ,			89		
SURROGATE LIMITS	(69 - 117)					
CHEMIST NOTES:						

N/A

Confidential

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THE REPORT

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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

PROJECT NAME	: SALTY BILL		SAMPLE MATRIX	: AQUEOUS
PARAMETER		LINITS		
BENZENE			<0.5	
		UG/L	<0.0	
BROMOFORM		UG/L	<0.5	
BROMOMETHANE		UG/L	<1.0	
CARBON TETRACHI ORIDE		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-TETRACHLOROETHAN	E	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	
TRICHLOROFLUOROMETHAN	E	UG/L	<0.2	
VINYL CHLORIDE		UG/L	<0.5	
TOTAL XYLENES		UG/L	<0.5	
SURROGATE:				
BROMOCHLOROMETHANE (%	(72 117)		109	
SUKKUGATE LIMITS	(73-117)			

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											
			Μ	SMSD							
TEST	: PURGEA	BLE HAL	OCARBONS /	AROMA	TICS (EPA 80	10/8020)					
MSMSD #	: 710410-02	2			AEN I.D.		:	: 710420			
CLIENT	: NMOCD				DATE EXT	RACTED	:	N/A			
PROJECT #	: SALTY BI	: SALTY BILL DATE ANALYZED : 11/5/97									
PROJECT NAME	: SALTY BI	LL			SAMPLE MATRIX			: 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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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.

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Marcia A. Smith Project Manager MS/acc

Enclosure

ADHS License No. AZ0061 Alan Kleinschmidt, Regional General Manager

CLIENT PROJECT PROJECT	: # : NAME :	AMERICAN 710420 NM OCD	ENV. NETWOR ATI I.D	K OF NM, . : 7105	INC. 05	DATE R REPORT	ECEIVED DATE	: 10/31/97 : 12/16/97
 ATI #	CL	IENT DESCH	RIPTION		MATRI	 {	DATE	COLLECTED
01 02	71 71	0420-01 0420-02			AQUEOU AQUEOU	JS JS		10/28/97 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

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				ATI I.D. : 71	0505
CLIENT : AMERICAN ENV. 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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ENV. NH	ETWORK OF	NM, INC.	ATI	I.D.	: 71050	05	
UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
MG/L	71102001	<1	<1	NA	NA	NA	NA
MG/L		361	361	0	NA	NA	NA
MG/L		<1	<1	NA	NA	NA	NA
MG/L		361	361	0	NA	NA	NA
MG/L	71199908	<1.5	<1.5	NA	2.0	1.5	133
MG/L	71114401	330	340	3	850	500	104
	71104301	640	641	0.2	NA	NA	NA
MG/L	71199902	0.39	0.39	0	1.00	0.50	122
MG/L	71050502	<0.06	<0.06	NA	1.89	2.00	94
UNITS	71041101	8.1	8.1	0	NA	NA	NA
MG/L	71038801	200	210	5	410	200	105
MG/L	71199918	180	180	0	NA	NA	NA
	ENV. NH UNITS MG/L MG/L MG/L MG/L MG/L MG/L UNITS MG/L MG/L MG/L	ENV. NETWORK OF UNITS ATI I.D. MG/L 71102001 MG/L MG/L 71199908 MG/L 71199908 MG/L 71199902 MG/L 71199902 MG/L 71050502 UNITS 71041101 MG/L 71038801 MG/L 71199918	ENV. NETWORK OF NM, INC SAMPLE UNITS ATI I.D. RESULT MG/L 71102001 <1 MG/L 361 MG/L 361 MG/L 71199908 <1.5 MG/L 71199908 <1.5 MG/L 7114401 330 71104301 640 MG/L 71199902 0.39 MG/L 71050502 <0.06 UNITS 71041101 8.1 MG/L 71038801 200 MG/L 71199918 180	ENV. NETWORK OF NM, INC. ATI SAMPLE DUP. UNITS ATI I.D. RESULT RESULT MG/L 71102001 <1 <1 MG/L 361 361 MG/L 361 361 MG/L 71199908 <1.5 <1.5 MG/L 71199908 <1.5 <1.5 MG/L 71114401 330 340 71104301 640 641 MG/L 71199902 0.39 0.39 MG/L 71050502 <0.06 <0.06 UNITS 71041101 8.1 8.1 MG/L 71038801 200 210 MG/L 71199918 180 180	ENV. NETWORK OF NM, INC. ATI I.D. SAMPLE DUP. UNITS ATI I.D. RESULT RESULT RPD MG/L 71102001 <1 <1 NA MG/L 361 361 0 MG/L 41 <1 NA MG/L 361 361 0 MG/L 71199908 <1.5 <1.5 NA MG/L 71199908 <1.5 <1.5 NA MG/L 71114401 330 340 3 71104301 640 641 0.2 MG/L 71199902 0.39 0.39 0 MG/L 71050502 <0.06 <0.06 NA UNITS 71041101 8.1 8.1 0 MG/L 71038801 200 210 5 MG/L 71199918 180 180 0	ENV. NETWORK OF NM, INC. ATI I.D. : 71050 SAMPLE DUP. SPIKED UNITS ATI I.D. RESULT RESULT RPD SAMPLE MG/L 71102001 <1 <1 NA NA MG/L 361 361 0 NA MG/L 361 361 0 NA MG/L 361 361 0 NA MG/L 361 361 0 NA MG/L 71199908 <1.5 <1.5 NA 2.0 MG/L 71199918 18.1 0 NA MG/L 71038801 200 210 5 410 MG/L 71199918 180 180 0 NA	ENV. NETWORK OF NM, INC. ATI I.D. : 710505 SAMPLE DUP. SPIKED SPIKE UNITS ATI I.D. RESULT RESULT RPD SAMPLE CONC MG/L 71102001 <1 <1 NA NA NA MG/L 361 361 0 NA NA MG/L 361 361 0 NA NA MG/L 361 361 0 NA NA MG/L 361 361 0 NA NA MG/L 71199908 <1.5 <1.5 NA 2.0 1.5 MG/L 71114401 330 340 3 850 500 71104301 640 641 0.2 NA NA MG/L 71199902 0.39 0.39 0 1.00 0.50 MG/L 71050502 <0.06 <0.06 NA 1.89 2.00 UNITS 71041101 8.1 8.1 0 NA NA MG/L 71038801 200 210 5 410 200 MG/L 71199918 180 180 0 NA 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. 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) SELENIUM (EPA 270.2/7740)	MG/L MG/L	<0.0002 0.025					

### METALS - QUALITY CONTROL

CLIENT PROJECT # PROJECT NAME	::	AMERICAN 710420 NM OCD	ENV. N	IETWORK	OF	NM, INC	ATI	I.D.	: 71050	)5	
PARAMETER			UNITS	ATI I.	D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
MERCURY SELENIUM			MG/L MG/L	710439 711026	01 01	<0.0002 <0.005	<0.0002	NA NA	0.0052	0.0050	104 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)

CLIENT PROJECT # PROJECT NAME CLIENT I.D. SAMPLE MATRIX	: AMERICAN ENV. : 710420 : NM OCD : 710420-01 : AQUEOUS	NETWORK OF	NM,	INC.	DATE SAMPLED DATE RECEIVED DATE EXTRACTED DATE ANALYZED UNITS DILUTION FACTOR	::	10/28/97 10/31/97 11/04/97 11/18/97 UG/L 5
COMPOUNDS				RES	SULTS		
N-NITROSODIMET	HYLAMINE			<50	)		
PHENOL				200			
ANILINE				<50	)		
BIS (2-CHLOROET	THYL) ETHER			<50	)		
2-CHLOROPHENOL	L			<50	)		
1,3-DICHLOROBE	INZENE			< 50	)		
1,4-DICHLOROBE	NZENE			< 50	)		
BENZYL ALCOHOL	1			<50	)		
1,2-DICHLOROBE	INZENE			<50	)		
2-METHYLPHENOL				110			
BIS (2-CHLOROIS	SOPROPYL) ETHER			<50	)		
4-METHYLPHENOL				93			
N-NITROSO-DI-N	I-PROPILAMINE			< 50			
HEAACHLORUETHA				< 50			
NI I ROBENZENE				<50			
2 NITRODUENOI				<50			
2 ALDIMETUVI.DU				<10	,		
BENZOIC ACID				~25	50		
BIG (2 - CHLOROET	HOXY) METHANE			<50	)		
2.4-DICHLOROPH	IENOL			<50	)		
1, 2, 4 - TRICHLOR	OBENZENÊ			<50	)		
NAPHTHALENE				<50	)		
4 - CHLOROANILIN	IE			<50	)		
HEXACHLOROBUTA	DIENE			<50	)		
4-CHLORO-3-MET	HYLPHENOL			<50	)		
2-METHYLNAPHTH	IALENE			<50	)		
HEXACHLOROCYCL	JOPENTADIENE			<25	50		
2,4,6-TRICHLOF	OPHENOL ·			<50	)		
2,4,5-TRICHLOR	ROPHENOL			<50	)		
2-CHLORONAPHTH	IALENE			<50	)		
2-NITROANILINE	2			<50	)		
DIMETHYLPHTHAI	JATE			<50	)		
ACENAPHTHYLENE				<50	)		
3-NITROANILINE	2			<50	)		
ACENAPHTHENE				<50			
2,4-DINITROPHE	SNOL			<1(	0		
4-NITROPHENOL				<50	)		
DIBENZOFURAN				<50	J		
2,4-DINITROTOI	JUENE			<50			
2,6-DINITROTOI	JUENE			<50	נ		

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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	interference

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

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CLIENT : AMERICAN PROJECT # : 710420 PROJECT NAME : NM OCD CLIENT I.D. : REAGENT	ENV. NET BLANK	WORK OF	'NM,	INC.	ATI I.D. DATE EXTR DATE ANAI UNITS DILUTION	RACTED LYZED FACTOR	::	710505 11/04/97 11/14/97 UG/L N/A
COMPOUNDS				RES	SULTS			
N-NITROSODIMETHYLAMINE					·			
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) ET	HER			<10	)			
4-METHYLPHENOL				<10	)			
N-NIIROSO-DI-N-PROPYLAMI	NE			<10				
NITROPENZENE				<10	)			
TODUODONE				<10	)			
2-NITROPHENOL				~10	)			
2 4-DIMETHYLPHENOL				<20	)			
BENZOIC ACID				< 50	)			
BIS (2-CHLOROETHOXY) METHAN	NE			<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	)			
HEXACHLOROCYCLOPENTADIEN	E			<50	)			
2,4,6-TRICHLOROPHENOL				<10	)			
2,4,5-TRICHLOROPHENOL				<10	)			
2 - CHLORONAPHTHALENE				<10	)			
2-NITROANILINE ·				<10	)			
DIMETHYLPHTHALATE				<10	)			
ACENAPHTHYLENE				<10	)			
				<10	)			
2 A_DINITRODUENOI				<10	)			
A - NITROPHENOL				<10	)			
DIBENZOFIRAN				<10	)			
2.4 - DINITROTOLIENE				<10	)			
2.6-DINITROTOLUENE				<10	)			
DIETHYLPHTHALATE				<10	)			
4 - CHLOROPHENYL - PHENYLETH	ER			<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)		AT1 .	I.D.	:	710505	
CLIENT : AMERICAN ENV. NETWO PROJECT # : 710420 PROJECT NAME : NM OCD REF I.D. : 71199901	ORK OF NI	M, INC.	DATE SAMP UNIT	ANAI LE MA	LYZED : ATRIX : :	11/07/ AQUEOU UG/L	97 S
COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
1,2,4-TRICHLOROBENZENE ACENAPHTHENE 2,4-DINITROTOLUENE	<10 <10 <10	100 100 100	61 79 90	61 79 90	56 70 78	56 70 78	9 12 14
PYRENE N-NITROSO-DI-N-PROPYL AMINE	<10 <10	100 100	77 79	77 79	63 70	63 70	20* 12
1,4-DICHLOROBENZENE PENTACHLOROPHENOL	<10 <10	100 100	67 86	67 86	61 91	61 91	9 6
PHENOL 2 - CHLOROPHENOL	<10	100	68 70	68 70	70 72	70	3
4 - CHLORO- 3 - METHYLPHENOL 4 - NITROPHENOL	<10	100	72	72	75	75 93	∓ 4 ∕
	~	- U U	00	00	00	05	-

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

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\* 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 MG/L	FACTOR ME/L	TOTAL	
ALKALINITY (AS CACO3) CHLORIDE FLUORIDE NITRATE AS N (NO3(NO3-N X 4.43) SiO3 (SILICON X 2.71) SULFATE	372.000 98000.000 0.570 <0.06 NA 2900.000	0.02000 0.02821 0.05264 0.01613 0.02629 0.02082	7.44000 2764.58000 0.03000 0.00000 0.00000 60.37800	
		TOTAL ANIONS		2832.428
CATIONS	RESULT	FACTOR	TOTAL	
CALCIUM POTASSIUM MAGNESIUM SODIUM	2200.000 980.000 500.000 110000.000	0.04990 0.02558 0.08229 0.04350	109.78 25.06840 41.14500 4785.00000	
		TOTAL CATIONS	3	4960.993
		%RPD (<10%)*		-54.62
TOTAL ANIONS/CATIONS TOTAL DISSOLVED SOLIDS ELECTRICAL COND.	(CALCULATED) (ANALYZED)	214803.770 160000 286000	%RPD (<15%)* TDS/EC RATIO (0.65+/-0.10)	29.24 0.56

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

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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

METHODS	RESULTS	REPORT LIMIT	UNITS	DATE ANALYZED	FLAG
ICP	-			12/05/1997	
200.7	2200	5.00	mg/L	12/09/1997	DIL,Q
200.7	500	5.00	mg/L	12/09/1997	DIL,Q
200.7	980	20.0	mg/L	12/09/1997	DIL,Q
200.7	110000	2000	mg/L	12/09/1997	DIL,Q
	<u>METHODS</u> ICP 200.7 200.7 200.7 200.7	METHODS         RESULTS           ICP         -           200.7         2200           200.7         500           200.7         980           200.7         110000	METHODS         RESULTS         REPORT LIMIT           ICP         -           200.7         2200         5.00           200.7         500         5.00           200.7         980         20.0           200.7         110000         2000	METHODS         RESULTS         REPORT LIMIT         UNITS           ICP         -         -         -           200.7         2200         5.00         mg/L           200.7         500         5.00         mg/L           200.7         980         20.0         mg/L           200.7         980         20.0         mg/L           200.7         110000         2000         mg/L	METHODS         RESULTS         REPORT LIMIT         UNITS         DATE ANALYZED           ICP         -         12/05/1997           200.7         2200         5.00         mg/L         12/09/1997           200.7         500         5.00         mg/L         12/09/1997           200.7         980         20.0         mg/L         12/09/1997           200.7         110000         2000         mg/L         12/09/1997

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

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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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### **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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### 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	mcr/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

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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
Coloine TOP DOD 7		o or	/-	10/00/1007
calcium, ICP 200.7	ND	0.05	mg/1	12/09/199/
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.

DATE /3/97 PAGE / OF /	ANALYSIS REQUEST		<i>C</i> .	a _ , 	K ZOO E ORG	ARL FI		SU % MOIS ASBE EPA EPA EPA EPA EPA EPA EPA EPA EPA	TOX TOC LFIDE TURE STOS A 525 1613 A 549 A 547 A 548 A 547 8310 ) COD BOD COBM						REVINQUISHED BY: // 1. RELINQUISHED BY: 2.	Signature The Signature. Time:	Vights Name: Date Date Printed Name: Date:	Chucican Environmental Network Company:	Phoenix RACEIVED BY 1. RECEIVED BY 2	Signatore: Inne: Signature: Inne:	Pointert Manuel Date: 1 Duntert Name	11. The 12 4M	Company: EN	930-9090 DISTRIBUTION: White, Canary - AEN (Anzona), Inc. • Pink - URIGINATOR
Interlab Chain of Custody			a), Inc.		AIR -	SU I GI 0 <sub>2</sub> , CO <b>NUMB</b>	FECA RFACT/ SOTOF RADI ROSS / 2, MET ER OF	AL COLIF ANTS (M RADOF PIC URA UM 226 ALPHA / HANE, C CONTAII	CORM BAS) V 222 VIUM / 228 BETA 0, N <sub>2</sub> VERS 0, N <sub>2</sub> VERS 0, N <sub>2</sub>						SAMPLE RECEIPT SAMPLES SENT T	ER OF CONTAINERS PORTLAND	STODY SEALS AQUATIC	OD COND. / COLD ALBUQUERQUE	G7,03081 ATEL WEST COAST	And La C + FORT COLLINS	( merine )	(nadcopy)		and (503) 684-0447 • Columbia (410) 730-8525 • Pleasant Hill (510
AEN Umerican Umuronmental Network (Arizona), Inc.	PROJECT MANAGER	MARCH MAILH	COMPANY: <i>American Environmental Network (Arizon</i> , ADDRESS: 9830 S. 51st Street, Suite B-113	Phoenix, Arizona 85044	(602) 496-4400				SAMPLE ID DATE TIME	710505-01 128A 89m	710505-07+ 1/11	- M			PROJECT INFORMATION	PROJECT NUMBER: 7/0505 TOTAL NUMBE	PROJECT NAME: CHAIN OF CUS OC LEVEL: STD IV INTAGT?	IAT: 1 STANDARD 1 J RUSH! RECEIVED GO	AEN WORKORDER # LAB NUMBER		WE WATE HOTT HOTT PLASE			vEN Labs: Albuquerque (505) 344-3777 • Pensacola (904) 474-1001 • Portla

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		FAX	TRANSMITTAL	SHEET	DEC 3 1 1997 Environmental Bureau Oil Conservation Division				
DELIVER T	o: <u>B</u>	u Ocson		PHONE NUMB	IE NUMBER:				
COMPANY	<u>N•</u>	<b>N</b> D		FAX NUMBER:	505-827-8177				
NUMBER O	F PAGES BE	ING SENT:	(INCLUD	ING THIS PAGE)					
FROM:				DATE:	12/11				
<u>~</u>	H. Mitchell Kimberly D	Rubenstein, Ph . McNeill, Proje	a.D., General Manager ect Manager	TIME:					
	Miles Tihan John Caldw Francine To	sky, Senior Chorell, Sample Con privio, Administ	emist ntrol trative Assistant	FAX NUI	MBER: (505) 344-4413				

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<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	Туре	Takon	Received
82288	710505-01	<b>Hecer</b>	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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DEC 11 .35 B2:S36W HEN NEM WEXICO

# 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

DERIMETRRE	METHODS	RESULTS	REPORT LIMIT	UNITS	12/05/1997	
ICP/AA Digestion - Weter	ICP	-	C A8	ma / L	12/49/2997	dil.q
Calcium, ICP 200.7	200.7	2200	8.00 8.00	mg/L	12/09/1997	DIL.Q
Magnesium, ICP 200.7	200.7	980	30.0	mg/L	12/09/1997	DIL.Q
Potabrium, ICP 200.7	200.7	110000	2000	mg/L	12/09/1997	0,410



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

	CCV True	Concentration	Forcenc	Dat#	
Malyte	Concentration	₹ound	Rocavery	<b>A</b>	
	46 A	24.0	96.0	12/03/1997	
Caldium, ICP 200.7	38 A	25.1	100.4	12/03/1997	
Magnesium, ICP 200.7	201V 2 AA	4.83	96.6	22/09/1997	
Porassium, ICP 200.7	8.UV 8.VV	A 91	98.2	12/09/1997	
sodium, ICP 200.7	3,00		•		

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

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### 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

Analyce Calcium, ICP 200.7 Mognasium, ICP 200.7 Petassium, ICP 300.7	LCS Truc Concentration 5.00 5.00 5.00	Concentration Found 4.64 4.85 6.77 5.25	LC3 * Eacovery 92.8 97.2 135.4 105.0	71ag4	Date Analysed 12/09/1997 12/09/1997 12/09/1997 12/09/1997
Sodium, ICP 200.7	5.00	5.25	105.0		13/03/199/

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

Analyce	Matrix Opike Rosult	Sample Regult	Spike Amount	Units	Percent Recovery	MED Ræsult	MSD Spike Amouac	Unita	Percont Recovery	Mg/MSD RPD	Flags
Calcium, ICP 200.7 Magnesium, ICP 200.7 Potassium, ICP 200.7 Sodium, ICP 200.7	20 - <del>4</del>	280 94 12 350	5,00 5,00 5,00	mg/l mg/l mg/l mg/l	168.0	20.4	5.00 5.00 5.00 5.00	mg/L mg/L mg/L mg/L	168.0	٥.٥	nd Mo Dilq.n Dil.q,

QC Sample:

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

MS = Matrix Spike MSD = Matrix Spike Duplicate RFD = 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:

YUS TACE	Blank Analysic	<b>Roport</b> Limic	Unit#	Date Analyzed
Calcium, ICP 200.7 Magnesium, ICP 200.7 Potassium, ICP 200.7 Sedium, ICP 200.7	্রায় ব্যথ ব্যথ	0.05 0.05 0.2 0.2	ng/l ng/l ng/l ng/l	12/09/1997 12/09/1997 12/09/1997 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

٠.

- 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.
- 01 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.

I THE REAL REPORTED

Z The pattern seen for the parameter being analyzed is not typical.

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CLIENT : AMERICAN E PROJECT # : 710420 PROJECT NAME : NM OCD	NV. NETWORK OF NM, INC.	ATT 1.D. : 710505 DATE RECEIVED : 10/31/97 REPORT DATE : 12/11/97
Parameter	UNITS 01	· · · · · · · · · · · · · · · · · · ·
MERCURY (EPA 245.2/7470) ION BALANCE SELENIUM (EPA 270.2/7740)	MG/L <0.0002 (INC) 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 PROJECT # : 710420 PROJECT NAME : NM OCD CLIENT I.D. : 710420-01 SAMPLE MATRIX : AQUEOUS	OF NM, INC. DATE SAMPLED : 10/28/97 DATE RECEIVED : 10/31/97 DATE EXTRACTED : N/A DATE ANALYZED : 11/18/97 UNITS : UG/L DILUTION FACTOR : 5
COMPOUNDS	RESULTS
N-NITROSODIMETHYLAMINE	<50
Phenol	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-MÉTHYLPHENOL	93
N-NITROSO-DI-N-PROPYLAMINE	<50
HEXACHLOROETHANE	<50
NITROBENZENE	<50
Isophorone	<50
2-NITROPHENOL	<50
2,4-DIMETHYLPHENOL	<100
BENZOIC ACID	<250
BIS (2-CHLOROETHOXY) METHANE	<50
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	
ACENAPHTHYLENE	
3-NITROANILINE	
Acenapktmene A Dinimpoduenci	
2,4-DINITROPHENOD	~50
e - Nitkophenol	450 450
DIERNZOFUKAN	~50
2,6-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	<\$0	
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 m	atrix interference	

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		Оргесойтликенся         У.П. Патра Стенністи, К. А. В. Д. Патра         У.П. Патра Стенністи, К. А. В. Д. Патра         Патра Калагунски (13)         Распату Рошизалі Медаіс (13)         ВСЯА Медаіс (8)         ВСЯА Медаіс (8)         Медаіс (8)         Медаіс (8)         Медаіс (8)         Медаіс (8)								RELINQUISHED BY:	Signature: Time:	Printed Name: Date:		Company:	RECEIVED BY: (LAB) 2.	Brind Marrie Dato		American Enviromental Network (NM), Inc.	4: White, Canary - AEN Pink - ORIGINATOR
	ANALYSIS REQUEST	504 EDB / DBCP / Polynuclear Aromatics (610/8310) Volatile Organics (624/8240) GC/MS Volatile Organics (8260) GC/MS Pesticides/PCB (608/8080) Herbicides (615/8150) Base/Neutral/Acid Compounds GC/MS (625/8270)							×	RELINQUISHED BY: 25-7-7 1.	Signature Ime	Printed Name: Date: P	1. 16 . 15 . Jopen 11	Company CO *	RECEIVED BY: Signature	Drivtod Nomo: Dato:		Company:	DISTRIBUTION
etwork (NM), Inc. CHAIN OF CUST		Petroleum Hydrocarbons (418.1) TRPH       (MOD.8015) Gas/Purge & Trap       (M8015) Gas/Purge & Trap       (M8015) Gas/Purge & Trap       BTXE/MTBE (8020)       BTXE/MTBE (8020)       Chlorinated Aromatics (602/8020)       BTEX/MTBE/EDC & EDB (8020/8010/5hort)       Chlorinated Hydrocarbons (601/8010)								IOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS	5H)	TIFICATION REQUIRED: UNM SDWA OTHER	HANOL PRESERVATION	AMENTS: FIXED FEE					Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107
American Environmental N Albuquerque • Phoenix • Pensacola • Portlanc	PROJECT MANAGER: Dill 0100	ADDRESS: 2342 5 6 PHONE: 2342 5 6 FAX: 723 7 7 FAX: 723 7 7 BILL TO: 723 7 7 COMPANY: 723 7 7 ADDRESS: 7347 6 FAX: 723 7 7 FAX: F F F F F F F F F F F F F F F F F F	2 97/228 29/3 10/07	30	×-	IS		 		D PROJECT INFORMATION	PROJ. NO: SE / S. N. HI (RU	PROJ. NAME: Society, Port CEF	P.O. NO.: ME	CO SHIPPED VIA:	C SAMPLE RECEIPT	CUSTODY SEALS Y/N//NA	RECEIVED INTACT	BUVERCEACE	4/1/96 AEN Inc.: American Environmental Network (NM

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# COMMONLY REQUESTED GENERAL CHEMISTRY

### ALK ABV. Alkalinity (Bicarbonate+Carbonate) ANALYSES

TOX	TOC	S-2	S04	TSS	TDS	PH	0-0 م	TKN	N02	N02/N03	N03	Π	CN	E.C.	COD	Ω	BR	BOD	NH4
<b>Total Organic Halide</b>	Total Organic Carbon	Sulfide	Sulfate	<b>Total Suspended Solids</b>	<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

TARC	ET ANALYTE LIST	(TAL)
NAME	SYMBOL	
Aluminum	AI	TAL
Antimony	Sb	PP,TAL
Arsenic	As	RCRA, PP, TAL
Barium	Ba	RCRA, TAL
Beryllium	Be	PP,TAL
Bismuth	<u>B</u> .	
Boron	œ	
Cadmium	Cd	RCRA, PP, TAL
Calcium	Ca	TAL
Chromium	ç	RCRA, PP, TAL
Cobalt	ĉ	TAL
Copper	δ	PP, TAL
Gold	Au	
Iron	Fe	TAL
Lead	Pb	RCRA, PP, TAL
	: =	
Magnesium	Mg	
Mercury	5	BCBA DD TAI
Molybdenum	Mo	
Nickel	N	PP, TAL
Potassium	*	TAL
Selenium	Se	RCRA, PP, TAL
Silicon	Si	
Silver	Ag	RCRA, PP, TAL
Sodium	Na	TAL
Strontium	Sr	
Sulfur	S	
Thallium	Ħ	PP, TAL
Tin	Sn	
Titanium	Ξ	
Uranium	c	
Vanadium	<	TAL
Zinc	Zn	PP, 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 Remote Station	Duration Mode	Pages	Results
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### 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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### **Fax Transmission**

Date: Tuesday, November 25, 1997

**Time:** 9:28:00 AM



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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

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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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DEC 03 1997

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 #
· ·
(841-2571)

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					
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ED Field Offi	sa Santa Eq	╢┺━	BEQUEST ID No .:	19	7305	
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CAS#	ANALYTE NAME		CONC. (Ug/L)	UUAL.	500	
71-43-2	Benzene		166.0		50,0	
74.67.5	Bromobenzenc			<u> </u>	50.0	
75-27-4	Bromodichlotomethane*			U	50.0	
75-25-2	Bromoform*			U	50.0	
74-83-9	Bromomethane	and the 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)				50.0	
75-00-3	Chloroethane			<u> </u>	50.0	
67-66-3				<u> </u>	50.0	
14-8/-3					50.0	
106.43.4				1 1	50.0	
96-12-8	1.2-Dibromo-3-chloropropane (DBCP)			tū	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	e)		U	50,0	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene	9)		1 0	50.0	
75-71-8	Dichlorodifluoromethane			<u> </u>	50.0	
75-34-3	1,1-Dichloroethane			<u> </u>	50.0	
107-06-2	1,2-Dichloroethane			<u>  U</u>	50.0	
75-35-4	1,1-Dichloroethene			<u> </u>	50,0	
156-59-2	cis-1,2-Uichloroethene			+	50.0	
156-60-5	trans-1,2-Dichloroethene			+	50.0	
78-87-5	1,2-Dichloropropane			+ <u>.</u>	50.0	ł
142-28-9	2.2 Dichloropropane				50.0	1
562-58-6				1	50.0	1
1006-10-15	cis-1.3-Dichloropropene			1 1	50.0	
1006-10-26	trans-1,3-Dichloropropene			<u> </u>	50.0	
100-41-4	Ethylbenzene		93.5	1	50.0	
07 69 0				1		

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98-82-8	Isoprozvibenzene	T	U I	50.0	
99-87-6	4-Isopropyltoluene	52.0		50.0	
75-09-2	Methylene chloride (Dichloromethane)		U	100.0	
91-20-3	Naphthalene	84,0		50.0	
103-65-1	Propylbenzene		U	50.0	
100-42-5	Styrene		U	50.0	
630-20-6	1,1,1,2-Tetrachloroethane		U	50.0	
79-34-5	1,1,2,2-Tetrachloroethane		U	50.0	
127-18-4	Tetrachloroethene		υ	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-Trichlorobenzene		<u> </u>	50.0	
71-55-6	1,1,1-Trichloroethane		<u> </u>	50.0	
79-00-5	1,1,2-Trichloroethane		<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	50.0	
95-63-6	1,2,4-Trimethylbenzene	198.0		50,0	
108-67-8	1,3,5-Trimethylbenzene	145.0		50.0	
75-01-4	Vinyl chloride	1	U	50.0	
95-47-6	o-Xylene	211.0		50.0	
N/A	p-&m-Xylene"	329.0		50.0	
<u>N/A</u>	"Total Xylenes"	540.0		50.0	
N/A	*Total Trihalomethanes*	0.0	U	50.0	
	Following Compound(s) Were Tentatively Identified by GC/MS (by I	ibre Match of Mas	s Spectru	m) Approx 4	Conc
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				ລປປ	سة لوب هو
112-40-3	Bontadecana	07 49/	47.00	Enn	110/1
<u>629-62-9</u>	Pentadecane	97.4%	47.20	500	μg/L μα/
112-40-3 629-62-9 1120-21-4 2809-65-6	Pentadecane Undecane	97.4% 96.3% 74.4%	47.20 37.95 37.50	500 500	μg/L μg/L μg/L
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-22-0	Pentadecane Undecane 1-Chloro-4-(1-propynyl)-benzene 2.5.6-Trimethyl-decane	97.4% 96.3% 74.4% 94.9%	47.20 37.95 37.50 32.85	500 500 500 500	μg/ <u>,</u> μg/ <u>,</u> μg/ <u>,</u>
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0	Pentadecane Undecane 1-Chloro-4-(1-propynyl)-benzene 2,5,6-Trimethyl-decane	97.4% 96.3% 74.4% 84.9%	47.20 37.95 37.50 32.85	500 500 500 500	μg/L μg/L μg/L μg/L
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0	Pentadecane Undecane 1-Chloro-4-(1-propynyl)-benzene 2,5,6-Trimethyl-decane LABORATORY BATCH QUALITY CONTROL SU	97.4% 96.3% 74.4% 94.9%	47.20 37.95 37.50 32.85	500 500 500 500	μ <u>σ/</u> ι μ <u>σ/</u> ι μ <u>σ/</u> ι μ <u>σ/</u> ι
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE	Pentadecane Undecane 1-Chloro-4-(1-propynyi)-benzene 2,5,6-Trimethyi-decane LABORATORY BATCH QUALITY CONTROL SU SURROGATE COMPOUNDS	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA	47.20 37.95 37.50 32.85	500 500 500 500 500	μg/ <u>,</u> μg/ <u>,</u> μg/ <u>,</u> μg/ <u>,</u> μg/ <u>,</u>
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES:	Pentadecane Undecane 1-Chloro-4-(1-propynyi)-benzene 2,5,6-Trimethyi-decane LABORATORY BATCH QUALITY CONTROL SU SURROGATE COMPOUNDS Toluene - D8	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514.1	47.20 37.95 37.50 32.85 TION 5	500 500 500 500 500 500 500 500 500	μ <u>σ</u> Λ. μ <u>σ</u> Λ. μ <u>σ</u> Λ. ν <u>σ</u> Λ.
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES:	Pentadecane Undecane 1-Chloro-4-(1-propynyi)-benzene 2,5,6-Trimethyi-decane LABORATORY BATCH QUALITY CONTROL SU SURROGATE COMPOUNDS Toluene - D8 4 - Bromofluorobenzene	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514. 498.	47.20 37.95 37.50 32.85 TION 5 5	500 500 500 500 500 500 500 7% RECO 102.9% 99.7%	μg/L μg/L μg/L μg/L νεεγ
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES:	Pentadecane Undecane 1-Chloro-4-(1-propynyi)-benzene 2,5,6-Trimethyi-decane LABORATORY BATCH QUALITY CONTROL SU SURROGATE COMPOUNDS Toluene - D8 4 - Bromofluorobenzene 1,2 - Dichlorobenzene - D4	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514.1 498.1 453.1	47.20 37.95 37.50 32.85 TION 5 5 5	500 500 500 500 500 500 500 102.9% 99.7% 90.7%	μ <u>σ/.</u> μ <u>σ/.</u> μ <u>σ/.</u> μ <u>σ/.</u> ν <u>ε</u> RΥ
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES:	Pentadecane Undecane 1-Chloro-4-(1-propynyi)-benzene 2,5,6-Trimethyi-decane LABORATORY BATCH QUALITY CONTROL SU SURROGATE COMPOUNDS Toluene - D8 4 - Bromofluorobenzene 1,2 - Dichlorobenzene - D4 The % recovaries for compounds in the batch spike we	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514.1 498.1 498.1 453.1 8re from 80% to 1	47.20 37.95 37.50 32.85 TION 5 5 5 20% with	500 500 500 500 500 500 102.9% 99.7% 90.7%	μ <u>g/</u> , μ <u>g/</u> , μ <u>g/</u> , μ <u>g</u> /, /ERY
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES:	Pentadecane Undecane 1-Chloro-4-(1-propynyi)-benzene 2,5,6-Trimethyi-decane LABORATORY BATCH QUALITY CONTROL SU SURROGATE COMPOUNDS Toluene - D8 4 - Bromofluorobenzene 1,2 - Dichlorobenzene - D4 The % recoveries for compounds in the batch spike we excention of the compounds in the batch spike we	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514.1 498.1 498.1 453.1 Bre from 80% to 1	47.20 37.95 37.50 32.85 TION 5 5 20% wit	500 500 500 500 500 102.9% 99.7% 90.7%	μ <u>g/</u> , μ <u>g/</u> , μ <u>g/</u> , μ <u>g</u> ,
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES: LABORATORY FORTIFIED	Pentadecane Undecane 1-Chloro-4-(1-propynyl)-benzene 2,5,6-Trimethyl-decane 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:	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514.1 498.1 498.1 453.1 Bre from 80% to 1	47.20 37.95 37.50 32.85 TION 55 55 55 20% wit	500 500 500 500 500 102.9% 99.7% 99.7% 90.7%	μ <u>g</u> Λ. μ <u>g</u> Λ. μ <u>g</u> Λ. μ <u>g</u> Λ.
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES: LABORATORY FORTIFIED BLANK	Pentadecane Undecane 1-Chloro-4-(1-propynyl)-benzene 2,5,6-Trimethyl-decane 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: <u>COMPOUND</u> No Exception	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514.1 498.1 498.1 453.1 Bre from 80% to 1	47.20 37.95 37.50 32.85 TION 5 5 5 5 20% wit ERY	500 500 500 500 500 102.9% 99.7% 99.7%	μσ/L μσ/L μσ/L μσ/L μσ/L
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES: LABORATORY FORTIFIED BLANK RECOVERIES	Pentadecane Undecane 1-Chloro-4-(1-propynyl)-benzene 2,5,6-Trimethyl-decane 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: <u>QOMPOUND</u> No Exceptions	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514.1 498.1 498.1 453.1 Bre from 80% to 1	47.20 37.95 37.50 32.85 TION 5 5 5 5 20% wit ERY	500 500 500 500 500 102.9% 99.7% 90.7%	μσ/L μσ/L μσ/L μσ/L μσ/L ν ΕRΥ
112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES: LABORATORY FORTIFIED BLANK RECOVERIES	Pentadecane Undecane 1-Chloro-4-(1-propynyl)-benzene 2,5,6-Trimethyl-decane 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: <u>COMPOUND</u> No Exceptions	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514.1 498.1 498.1 453.1 Bre from 80% to 1 0N (ugA.) % RECOV	47.20 37.95 37.50 32.85 TION 55 55 52 20% with ERY	500 500 500 500 500 102.9% 99.7% 90.7%	μ <u>σ</u> Λ. μ <u>σ</u> Λ. μ <u>σ</u> Λ. μ <u>σ</u> Λ. ν <u>ε</u> RΥ
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112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES: LABORATORY FORTIFIED BLANK RECOVERIES LABORATORY BLANK	Pentadecane Undecane I-Chloro-4-(1-propynyl)-benzene 2,5,6-Trimethyl-decane LABORATORY BATCH QUALITY CONTROL SU SURROGATE COMPOUNDS Toluene - D8 4 - Bromofluorobenzene 1,2 - Dichlorobenzene 1,2 - Dichlorobenzene - D4 The % recoveries for compounds in the batch spike we exception of the compounds listed below: QOMPOUND CONCENTRATIC No Exceptions No target compounds were detected above the sample with the exception of the compound(s) listed below: COMPOUND CON	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514.1 498.1 498.1 453.1 Bre from 80% to 1 0N (µg/L) % RECOV detection limit in 1 ow: CENTRATION (µg/L)	47.20 37.95 37.50 32.85 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	500 500 500 500 102.9% 99.7% 90.7% 90.7%	μ <u>σ</u> Λ. μ <u>σ</u> Λ. μ <u>σ</u> Λ. μ <u>σ</u> Λ. /ERY
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112-40-3 629-62-9 1120-21-4 2809-65-6 62108-23-0 SURROGATE RECOVERIES: LABORATORY FORTIFIED BLANK RECOVERIES LABORATORY BLANK RECOVERIES LABORATORY BLANK RECOVERIES LABORATORY BLANK COVERIES LABORATORY BLANK RECOVERIES LABORATORY BLANK RECOVERIES LABORATORY BLANK RECOVERIES LABORATORY BLANK COVERIES LABORATORY BLANK RECOVERIES LABORATORY BLANK RECOVERIES LABORATORY BLANK RECOVERIES	Pentadecane         Undecane         1-Chloro-4-(1-propynyl)-benzene         2,5,6-Trimethyl-decane         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         No target compounds were detected above the sample with the exception of the compound(s) listed below:         COMPOUND       CON         No Exceptions         The S. L Keller       QC APPROVED         IONS       On Exceptions         COMS       No Exceptions         Son Exceptions       CON         No target callowable Maximum Contamination Level       Descreptions         IONS       Surget callowable Maximum Contamination Level         Stract Services Number - Unique number to help identify analytes listed on (up(1) of analyte actually detected in the sample analytical results as follows:         A Analyte was detected in laboratory blank       Analyte was detected at a level above the concentration of the calibratical of the calibratical concentration of the calibratical concentration contamination contamination calibratical concentration of the calibratical concentration conthe calibratical concentratic concentraticon	97.4% 96.3% 74.4% 94.9% MMARY CONCENTRA 514.1 498.1 498.1 453.1 Bre from 80% to 1 0N (µgA) % RECOV detection limit in I ow: CENTRATION (µgA) D BY:	47.20 37.95 37.50 32.85 TION 5 5 5 20% with ERY aborator mothy C	500 500 500 500 102.9% 99.7% 90.7% 90.7%	μ <u>9</u> Λ, μ <u>9</u> Λ, μ <u>9</u> Λ, μ <u>9</u> Λ, /ERY
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<sup>1</sup> Request ID No. ORGANIC CHEMISTRY AN	ALYTICAL REQUEST FORM <sup>2</sup> SLD's Accession No.
Request                    Scientific L ID No. 197305-A OR Albuquerque. NM Phone: 505-&	aboratory Division Jud, NE (P.O. Box 4700) 1 87106 (87196-4700) 41-2500/ -2570/ -2566
<sup>3</sup> User Code: 15151814101 Date & Time of Receipt at SLD: 97 H97 - 7	* Sample         If 1 or 2           Priority:         1_1 call SLD
<sup>5</sup> Submitter WSS Code: Code:	User's 6 Sample Temp. Site ID: 1 8 Complete Compared by Sample Temp. Receipt @ SLD:°C
<sup>7</sup> Facility or WSS Name: L 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: Location: Complete 8, 9 & 10	<sup>9</sup> City: <sup>10</sup> State: or CHANGE N M TO []
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<sup>12</sup> Sample On: $\frac{11}{Date:}$ $\frac{5}{MM}$ $\frac{97}{12}$ By: $15 \frac{14}{Lat Name}$	VICIMERZII IIIIIIII
At: $\frac{12}{\text{Time: } 2400 \text{ How Clock}}$ $\frac{111}{\text{First Name}}$	AINIKI IIIIIIIIIIIIIIIIIIIIII
<sup>13</sup> Sample Info. Contact: Ph: [505] - 827 - 1513	If not collector, per box 12, Please print name here: 827-1538 (Melinly Oleache
Reports are mailed to the address specified by the Submitter Code and WSS C appropriate boxes below and complete address form.	ode (when present). However, if one of the following applies, please check $\mathbb{Z}$ , $\mathcal{N} = \mathcal{N} = \mathcal{N} = \mathcal{N}$
□ New Address for: □ Send an additional □ Submitter Report to ➤ Address: □ □ WSS / Client	P.D. Box 2611D oto Fr MM = 87502
<sup>15</sup> Field Data: (When uppropriate )	<sup>16</sup> Field Remarks: (Optional)
Temperature:°C; pH: SDWA Compositing:	ned
Presse Check Box  Within This System On Chlorine Residual:mG/L  Within All Systems	цу
Sulfate: mG/L	
(Check Bonly one) Soil Plant Bloc	de ⊡ Outer. ⊡ Exquid. d □ Solid:
18 Preservation: INO Preservation (Check Ball that apply) INStored at 4°C IPreserved with H	ICl to pH < 2
<sup>19</sup> Analyses Requested: Please Check E the appropriate box and, please indica	(es) below to indicate your analytical request(s); the the number of bottles & vials submitted: Bottles Vials
Volatile Screens:	Semivolatile Screens:
□-(154) Aromatic & Halogenated Volatiles (EPA 8021)	<u>□-(789) Drinking Water Semivolatile Screens (Indented list)</u>
II-(765) Mass Spectrometer Volatiles (EPA 8260)	$\Box_{-}(775) EDB, DBCP & TCP (EPA 504.1)$ $\Box_{-}(758) Acid Herbicides (EPA 515.2)$
[]-(774) Volatile Organic Compounds [VOC's] (EPA 502.2)	[]-(772) Carbamates (EPA 531.1)
LI-(100) SDWA Total Innaiomethanes (EPA 502.2)	□-(781) Glyphosate (EPA 547)
	$\Box - (782) \text{ Endothall (EPA 548.1)}$
Other Specific Compounds or Classes:	$\Box_{-(763)} \Box_{1}(ErA 549.1)$ $\Box_{-(788)} SOC (EPA 525.2)$
<b>G</b> -()	-(755) Base/Neutral Semivolatiles (No Acids) (EPA 8270)
<b>D</b> -( )	LI-(756) Base/Neutral/Acids Semivolatiles (EPA 625/8270)
	□-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
Remarks:	-(768) Disinfection Byproducts Screen (Indented list)
	$\Box$ -(771) Haloacetic Acids (EPA 552.2)
	L-(109) Haloacetonitries (THM's (EPA 551.1)
	-(773) Total Organic Halides [TOX] (EPA 5320b)
SLD-OR-8912 Revised: Oct-96 P	lease RETAIN A COPY of your completed form for your records

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A	buquerque: NM 87196-4700		[505] 841-2500	)		
	ORGANIC CHEMISTRY SECTIO	N 15051 841-2570	)			
	REPORT TO CLIENT					
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ED Field Offic	ce, Santa Fe	F	REQUEST ID No .:	19	7304	
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			Grining Grining,			
	Demoste an este d'anne batterier est		addiada data			
Hernarks:	Sample marked as: being prese	ved with Hyd	rochioric Acid;			
	·	<u> </u>	······································			
EPA M	ETHOD 8260 MASS SPECTROMETER	VOLATILES E	Y PURGE AND	TRAP		
<u></u>					ana ana amin'ny faritr'o ana amin'ny faritr'o ana amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny fa	and the second second
DATE EXTR	ACTED: N/A		NALYSIS NO.	.: OR-	- 97029	29
DATE ANA	LYZED: 11/18/97 13 Davs: Within EPA Analysi	s Time	SLD BA	TCH No.;	433	
SAMPLE	VOI (m): 0.25		DILUTION	ACTOR	20.00	)
Orani EL			REQUES	TID No .:	19730	4
			_	1		للمستعد
SAMPLE PRESER	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		Į	U	20.0	
95-49-8	2-Chlorotoluene			<u> </u>	20.0	
106-43-4	4-Chlorotoluene			U	20.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		L	<u> </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	1 1	20.0	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzen	e)	l	U	20.0	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene	<u></u>	L	<u> </u>	20.0	
75-71-8	Dichlorodifluoromethane	<b></b> -		U U	20.0	
75-34-3	1,1-Dichloroethane		Į	U	20.0	
107-06-2	1,2-Dichloroethane		<u> </u>	U	20.0	
/5-35-4	1,1-Dichloroethene		Į	<u> </u>	20.0	
156-59-2	cis-1,2-Dichloroethene		ļ	<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-Dichloropropane	····		<u> </u>	20.0	
594-20-7	2,2-Dichioropropane			1 <u> </u>	20.0	
263-58-6	1,1-Dichloropropene		<b></b>	<u>- U</u>	20.0	
1006 10-13			<u> </u>	<u>↓                                     </u>	20.0	
100-10-20	Ethylboozooo			<u>                                     </u>	20.0	
1 10044144	i Ethvidenzene		1 660.0	1	1 20.0 1	

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87-68-3HexachlorobutadieneU98-82-8Isopropylbenzene159.099-87-64-isopropyltoluene199.075-09-2Methylene chloride (Dichloromethane)U91-20-3Naphthalene354.0103-65-1Propylbenzene372.0100-42-5StyreneU630-20-61,1,1,2-TetrachloroethaneU	20.0
98-82-8         Isopropylbenzene         159.0           69-87-6         4-Isopropyltoluene         199.0           75-09-2         Methylene chloride (Dichloromethane)         U           91-20-3         Naphthalene         354.0           103-65-1         Propylbenzene         372.0           100-42-5         Styrene         U           630-20-6         1,1,1,2-Tetrachloroethane         U	
99-87-64-Isopropyltoluene199.075-09-2Methylene chloride (Dichloromethane)U91-20-3Naphthalene354.0103-65-1Propylbenzene372.0100-42-5StyreneU630-20-61,1,1,2-TetrachloroethaneU	20.0
75-09-2     Methylene chloride (Dichloromethane)     U       91-20-3     Naphthalene     354.0       103-65-1     Propylbenzene     372.0       100-42-5     Styrene     U       630-20-6     1,1,1,2-Tetrachloroethane     U	20.0
91-20-3         Naphthalene         \$54.0           103-65-1         Propylbenzene         372.0           100-42-5         Styrene         U           630-20-6         1,1,1,2-Tøtrachloroethane         U	40.0
103-65-1         Propylbenzene         372.0           100-42-5         Styrene         U           630-20-6         1,1,1,2-Tetrachloroethane         U	20.0
100-42-5 Styrene U 630-20-6 1,1,1,2-Tetrachloroethane u	20.0
630-20-6 1,1,1,2-Tetrachloroethane	20.0
	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 2030.0 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-Trimethylbenzane 1786.0 E	20.0
108-67-8 1.3.5-Trimethylbenzene 471.0	20.0
75-01-4 Vinyl chloride	20.0
95-47-6 o-Xylene" 1259.0 F	20.0
N/A p- & m-Xviene U	20.0
N/A 'Total Xvienes' 1259 p	20.0
N/A "Total Tribalomethanes"	20.0
The Following Compound(s) Were Tentatively Identified by GC/MS (by Library Match of Mass So	ectrum)
CAS #   Tentatively Identified Compound Name   % Match   BT	Approx Con
1120-21-4 Undecane 93.9% 32.5	1000 00
1042-59-8 2-Pronvi-1-hentanol 06.1% 27.5	0 1000 µg
112-40-3 Dodecane 97.9% 422	0 1000 #0
62108-25-2 2.4.6-Trimethyldecane 95.7% 47.4	A00 up
111-65-9 Octane 97.2% 21.8	0 400 µ0/
LABORATORY BATCH QUALITY CONTROL SUMMARY	% RECOVER
LABORATORY BATCH QUALITY CONTROL SUMMARY SURROGATE SURROGATE COMPOUNDS CONCENTRATION	125 7%
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Tolueng - D8         251,4	14.417 /9 1
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Tolueng - D8         251,4           4 - Bromofluorobenzene         181	90.5%
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251,4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177	90.5%
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Taluene - D8         251,4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177	90.5%
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Taluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120%	90.5% 88.5% with the
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Taluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:	90.5% 88.5% with the
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (µg/L) % RECOVERY	90.5% 88.5% with the
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120%           FORTIFIED         exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (µg/L)         % RECOVERY           RECOVERIES         No Exceptions         100%         10%	90.5% 983.5% with the
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Taluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120%           FORTIFIED         exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (µg/L)         % RECOVERY           RECOVERIES         No Exceptions         CONCENTBATION (µg/L)         % RECOVERY	90.5% 90.5% 88.5% with the
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Taluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (µg/L)         % RECOVERY RECOVERY NO Exceptions           LABORATORY         No target compounds were detected above the sample detection limit in laboration         % Recover for above the sample detection limit in laboration	90.5% 90.5% 88.5% with the
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Taluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (ug/L) % RECOVERY NO Exceptions           LABORATORY         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (ug/L)         % RECOVERY RECOVERY           No target compounds were detected above the sample detection limit in labor         with the exception of the compound(s) listed below:	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (ug/L) % RECOVERY           RECOVERIES         No target compounds were detected above the sample detection limit in labor           BLANKS         With the exception of the compound(s) listed below:           COMPOUND         CONCENTBATION (ug/L)           No target compounds were detected above the sample detection limit in labor           With the exception of the compound(s) listed below:           COMPOUND         CONCENTBATION (ug/L)           No Exceptions	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251,4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (µg/L)         % RECOVERY RECOVERY           No Exceptions         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:         CONCENTBATION (µg/L)           BLANKS         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:         COMPOUND           COMPOUND         CONCENTBATION (µg/L)         No Exceptions	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY         SURROGATE       SURROGATE COMPOUNDS       CONCENTRATION         BECOVERIES:       Toluene - D8       251,4         4 - Bromofluorobenzene       181         1,2 - Dichlorobenzene - D4       177         LABORATORY       The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:         BLANK       COMPOUND         RECOVERIES       No Exceptions         LABORATORY       No target compounds were detected above the sample detection limit in laborwith the exception of the compound(s) listed below:         LABORATORY       No target compounds were detected above the sample detection limit in laborwith the exception of the compound(s) listed below:         COMPOUND       CONCENTRATION (ug4.)         No Exceptions       COMPOUND         ANALYST:       B. L. Keller       QC APPROVED BY:	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251,4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (ug/L) % RECOVERY           RECOVERIES         No Exceptions         X RECOVERY           LABORATORY         No target compounds were detected above the sample detection limit in labor         With the exception of the compound(s) listed below:           LABORATORY         No target compounds were detected above the sample detection limit in labor         With the exception of the compound(s) listed below:           COMPOUND         CONCENTBATION (ug/L)         No Exceptions           ANALYST:         B. L. Keller         QC APPROVED BY:         Timothy	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251,4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (ug/L) % RECOVERY           RECOVERIES         No Exceptions           LABORATORY         No target compounds were detected above the sample detection limit in labor           BLANKS         No target compounds were detected above the sample detection limit in labor           With the exception of the compound(s) listed below:         CONCENTBATION (ug/L)           ANALYST:         B. L. Keller         QC APPROVED BY:         Timothy           DEFINITIONS         Timothy         DEFINITIONS         Timothy	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluane - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (ug/L)         % RECOVERY % RECOVERY           RECOVERIES         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:           LABORATORY         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:           COMPOUND         CONCENTBATION (ug/L)           BLANKS         With the exception of the compound(s) listed below:           COMPOUND         CONCENTBATION (ug/L)           No Exceptions         CONCENTBATION (ug/L)           ANALYST:         B. L. Keller         QC APPROVED BY:         Timothy           DEFINITIONS         Concentration Exceeds EPA's allowable Maximum Contamination Level         Contamination Level	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluane - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (ugl.)           RECOVERIES         No Exceptions           LABORATORY         No target compounds were detected above the sample detection limit in labor           BLANKS         With the exception of the compound(s) listed below:           COMPOUND         CONCENTRATION (ugl.)           BLANKS         No target compounds were detected above the sample detection limit in labor           with the exception of the compound(s) listed below:         COMPOUND           COMPOUND         CONCENTRATION (ugl.)           No Exceptions         No Exceptions	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (µgL) % RECOVERY           RECOVERIES         No Exceptions           LABORATORY         No target compounds were detected above the sample detection limit in labor           BLANKS         With the exception of the compound(s) listed below:           BLANKS         No target compounds were detected above the sample detection limit in labor           With the exception of the compound(s) listed below:         CONCENTRATION (µgL)           ANALYST:         B. L. Keller         QC APPROVED BY:         Timothy           DEFINITIONS         Concentration Exceeds EPA's allowable Maximum Contamination Level         CASH         Concentration Exceeds EPA's allowable Maximum Contamination Level         Concentration fercees Number - Unique number to help identify analytes listed by different names           CONC.         Concentration (ugL) of analyte actually detected in the sample         Different names	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTBATION (ugL) % RECOVERY           RECOVERIES         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:           LABORATORY         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:           LABORATORY         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:           COMPOUND         CONCENTBATION (ugL)           No Exceptions         No Exceptions           ANALYST:         B. L. Keller         QC APPROVED BY:         Timothy           DEFINITIONS         Concentration Exceeds EPA's allowable Maximum Contamination Level         Concentration (ugL) of analyte actually detected in the sample           GUAL         Qualifier of analytical results as follows:         Gualifier of analytical results as follows:	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTRATION (µgL) % RECOVERY           RECOVERIES         No target compounds were detected above the sample detection limit in labor           BLANKS         No target compounds were detected above the sample detection limit in labor           BLANKS         No target compounds were detected above the sample detection limit in labor           With the exception of the compound(s) listed below:         COMEOUND           COMPOUND         CONCENTRATION (µgL)           MALYST:         B. L. Keller         QC APPROVED BY:           DEFINITIONS         Concentration Exceeds EPA's allowable Maximum Contamination Level           CAS#         Chamical Abstract Services Number - Unique number to help identify analytes listed by different names           CONC.         Concentration (ugL) of analyte actually detected in the sample           Qualifier of analytical results as follows:         B           B         Analyte was dete	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichforobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTRATION (µgA)         % RECOVERY           RECOVERIES         No farget compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:         COMPOUND         CONCENTRATION (µgA)         % RECOVERY           BLANKS         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:         CONCENTRATION (µgA)         % RECOVERY           BLANKS         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below:         CONCENTRATION (µgA)         % RECOVERY           BLANKS         No target compounds were detected above the sample detection limit in labor         With the exception of the compound(s) listed below:         CONCENTRATION (µgA)           BLANKS         No target compounds were detected above the sample detection limit in labor         No Exceptions         Concentratinon Exceeds EPA's allowable Maximum Contamination Level	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE RECOVERIES:         SURROGATE COMPOUNDS         CONCENTRATION           A - Bromofluorobenzene - D8         251.4         4           4 - Bromofluorobenzene - D4         181         12           1.2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTRATION (µg/L) % RECOVERY RECOVERIES           BLANK         COMPOUND         CONCENTRATION (µg/L) % RECOVERY No Exceptions           LABORATORY         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below: COMPOUND         CONCENTRATION (µg/L)           BLANKS         No target compounds were detected above the sample detection limit in labor with the exception of the compound(s) listed below: COMCENTRATION (µg/L) No Exceptions           ANALYST:         B. L. Keller         QC APPROVED BY:         Timothy           DEFINITIONS         Concentration Exceeds EPA's allowable Maximum Contamination Level         Concentration (µg/L) of analyte actually detected in the sample           QUAL         Qualifier of analytical results as follows: B Analyte was detected in theoratory blank         Analyte was detected in aboratory blank           B Analyte was detected at a level above the concentration of the calibration cur	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene         181           1,2 - Dichlorobenzene         181           1,2 - Dichlorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTRATION (ug/L) % RECOVERY           RECOVERIES         No target compounds were detected above the sample detection limit in labor           BLANKS         No target compounds were detected above the sample detection limit in labor           BLANKS         No target compounds were detected above the sample detection limit in labor           BLANKS         No target compounds were detected above the sample detection limit in labor           BLANKS         No target compounds were detected above the sample detection limit in labor           BLANKS         No target compounds were detected above the sample detection limit in labor           BLANKS         Recover above the sample detected no (ug/L) of analyte actually detected above the concentration Level           Concentration (ug/L) of analyte actually detected in	atory blank
LABORATORY BATCH QUALITY CONTROL SUMMARY           SURROGATE         SURROGATE COMPOUNDS         CONCENTRATION           RECOVERIES:         Toluene - D8         251.4           4 - Bromofluorobenzene         181           1,2 - Dichlorobenzene - D4         177           LABORATORY         The % recoveries for compounds in the batch spike were from 80% to 120% exception of the compounds listed below:           BLANK         COMPOUND         CONCENTRATION (upl.) % RECOVERY           RECOVERIES         No target compounds were detected above the sample detection limit in labor           BLANKS         With the exception of the compound(s) listed below:           COMPOUND         CONCENTRATION (ugl.)           BLANKS         No target compounds were detected above the sample detection limit in labor           BLANKS         With the exception of the compound(s) listed below:           COMPOUND         CONCENTRATION (ugl.)           No Exceptions         CONCENTRATION (ugl.)           ANALYST:         B. L. Keller         QC APPROVED BY:         Timothy           DEFINITIONS         Concentration Exceeds EPA's allowable Maximum Contamination Level         CAS#           Chamical Abstract Services Number - Unique number to help identify analytes listed by different names         CONC.           CONC         Concentration (ugl.) of analyte actual	atory blank

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Request ID No. ORGANIC CHEMISTRY A	NALYTICAL REQUEST FORM <sup>2</sup> SLD's Accession No.
Request                             Scientific ID No. 197304-A OR Albuquerque. N Phone: 505-	Laboratory Division Nalud, NE (P.O. Box 4700) M 87106 (87196-4700) 841-2500/-2570/-2566
User Code: $15151914101$ Date & Time of Receipt at SLD: 97 NC	V - 7     F(1)     l; (13)     4     Sample     If I or 2       Priority:     11     call SLD
Submitter         WSS           Code:         1         1         Code:         1	Uscr's 6 Sample Temp. Sample Temp. C
Facility or WSS Name: Land to the table to the table to the table to the table to the table to the table to the table to the	
Pacility/WSS     If No WSS Code     8 County:       Location:     Complete 8.9 & 10	<sup>9</sup> City: <sup>10</sup> State: or CHANGE N M TO 1_1_1
Sampling 5A- Location: LILLLLLLLLLLLL	
<sup>2</sup> Sample Collection: On: $\frac{11}{D_{SUE}} / \frac{1}{D_{D}} / \frac{1}{2} $ By: $1 \le 1 \le 1$ Latt Name	N <sub>I</sub> C <sub>I</sub> H <sub>I</sub> E <sub>T</sub> Z <sub>I</sub> I I I I I I I I I I I I I I I I I I
At: : <u>18 PM</u> I <u>F</u> Time: 2400 Hour Clock Pirst Name	
<sup>3</sup> Sample Info. Contact: Ph: [35] - 827 - 1513	If not collector, per box 12. Please print name here: 827-1558 (Melinde Oleacher
<sup>4</sup> Reports are mailed to the address specified by the Submitter Code and WSS appropriate bases below and complete address form.	Code (when present). However, if one of the following applies. please check $\square$ $MED - HFMB$
New Address for:  New Address for:  Send an additional  Submitter  WSS / Client	P.O. Box 26/10 Dants Fr. NM = 87502
<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	C
Sulfate: mGA	
'Sample Type: □ Water □ Vapor □ Tise (Check Bonly one) □ Soil □ Plant □ Blo	sue 🛛 Other: 🗗 Liquid: 10d
<sup>8</sup> Preservation: INO Preservation (Check Hall that apply) Stored at 4°C Preserved with 1	HCl to pH < 2 $\Box$ Other:
<sup>9</sup> Analyses Requested: Please Check E the appropriate box and please indic	c(es) below to indicate your analytical request(s);
Volatile Screens:	Semivolatile Screens:
D-(754) Aromatic & Halogenated Volatiles (EPA 8021)	□-(789) Drinking Water Servivolatile Screens (Indented list)
$\Box_{-}(774)$ Volatile Gravnic Compounds [V/OC's] (EPA 502.7)	$\Box$ -(758) Acid Herbicides (EPA 515.2)
U-(774) Volane Organic Componints (VOC 3) (11 A 502.2) U-(766) SDWA Total Trihalomethanes (EPA 502.2)	□-(772) Carbamates (EPA 531.1)
	$\square$ -(781) Glyphosate (EPA 547) $\square$ -(782) Endothall (EPA 548.1)
Other Specific Compounds or Classes	□-(783) Diquat (EPA 549.1)
	□-(788) SOC (EPA 525.2)
LI-()	U-(756) Base/Neutral/Acids Semivolatiles (IPA 6270)
□-()	□-(760) Organochlorine Pesticides / PCB's (EPA 608)
Remarks:	[-(751) Hydrocarbon Fuel Screen (Modified EPA 8015)
	-(771) Haloacetic Acids (EPA 552.2)
	-(769) Haloacetonitriles / THM's (EPA 551.1)
	-(770) Chloral Hydrate (EPA 551.1)
20'd	DEC-01-01 WON OS:177 PM

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### **Roger Anderson**

From:	John Waters[SMTP:jwaters@carlsbadnm.com]
Sent:	Monday, December 01, 1997 9:08 AM
To:	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. Wullk Around. Contractors Curdnicil Values Fixed Pickedup Some Soil 241 Hours Man	wonte extension de time letter.
CONCLUSIONS		
CHRISEUSTICE		

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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

TO; COMPANY:	BILL OLSON NMED-OCD
PHONE:	(505)827-7152
FAX:	(505)827-8177
FROM:	Kim McNeill
DATE:	11/12/97
PAGE TOTAL	
AEN ID NO:	710420
PROJECT NAME/NO.:	SALTY BILL
SAMPLES RECEIVED:	10/29/97
COMMENTS:	John Waters of City of Carlsbed was
	wanting to know about this data.
,	His name was not in the chain of Custody
	SO I was unable to give any results to
	him.
	I will far the rest of the data as soon
	an it is a withhe
	and the second second second second second second second second second second second second second second second
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	the second second second second second second second second second second second second second second second se
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This seasible is intended only for the use of the Individu	ust or whilly (a which it is addreaded). It may contain information that is privileged, confidential, or cinerwise
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transmission to the Intended recipient, you are hereby r	notifica that any dissentinetian, distribution, copying or use of this funsarieskin or its contents is strictly
prohibited, if you have received this transmission in §7 Localize the serve number of neither as stated above, do	gr, peuse roury of an all prome normal source in any of more supplier of any period of a supple of a supple of a

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## GAS CHROMOTOGRAPHY RESULTS

TEST	: PURGEABLE H	<b>HALOCARBO</b>	INS / AROMA	TICS (EPA 8010)	/8020)	
CLIENT	: NMED-OCD			·	AEN I.D.	: 710420
PROJECT #	: SALTY BILL					
FROJECT NAME	: SALTY BILL					
SAMPLE			DATE	DATE	DATE	DIL.
						FLOTO

ID. # CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01 9710280910		AQUEOUS	10/28/97	NA	11/5/97	50
PARAMETER	DET. LIMIT	UNI	TS	01		
BENZENE	0,5	UG	/L	2600	·····	
BROMODICHLORMETHANE	0.2	UG	:/L	< 10		
BROMOFORM	0.5	UG	i/L	< 25		
BROMOMETHANE	1.0	UG	i/L	< 50		
CARBON TETRACHLORIDE	0.2	UG	VL	< 10		
CHLOROBENZENE	0.5	UG	/L	< 25		
CHLOROETHANE	0.5	UĢ	/L	< 25		
CHLOROFORM	0.5	UG	/L	< 25		
CHLOROMETHANE	1.0	UG	/L	< 50		
DIBROMOCHLOROMETHANE	0.2	UG	/L	< 10		
1,2-DIBROMOETHANE (EDB)	0.2	UG	/L	< 10		
2-DICHLOROBENZENE	0.5	UG	/L	< 25		
C3-DICHLOROBENZENE	0.5	UG	/L	< 25		
:,4-DICHLOROBENZENE	0.5	UG	/L	< 25		
1.1-DICHLOROETHANE	0.3	UG	/L	< 15		
1,2-DICHLOROETHANE (EDC)	0.5	UG	/L	< 25		
1,1-DICHLOROETHENE	0.2	UG	/L	< 10		
cis-1,2-DICHLOROETHENE	0.2	UG	/L_	< 10		
frans-1,2-DICHLOROETHENE	1.0	UG	/L	< 50		
1,2-DICHLOROPROPANE	0.2	UG	/L	< 10		
ois-1,3-DICHLOROPROPENE	0.2	UG	/L	< 10		
ans-1,3-DICHLOROPROPENE	0.2	UG	/L	< 10		
ETHYLBENZENE	0.5	UG	/L	440		
METHYL-I-BUTYL ETHER	2.5	UG	/L	< 125		
METHYLENE CHLORIDE	2.0	UG	/L	< 100		
1,1,2,2-TETRACHLOROETHANE	0.5	UG	/L	< 25		
TETRACHLOROETHENE	0.5	UG	/L	< 25		
	0.5	UG	/L	2400		
	1.0	UG	/L	< 50		
	0.2	UG	/L	< 10 < 15		
	0.3	UG	/L	5 10		
	0.2		/ L //	< 10 < 25		
	0.0		/ 🗆	~ ∡3 0#A		
IUIAL XYLENES	0.5		/ 🖬	800		
SURROGATE:						
BROMOCHLOROMETHANE (%)				111		
SURROGATE LIMITS	(73 - 117)					
TRIFLUOROTOLUENE (%)	. ,			89		
SURROGATE LIMITS	(69 - 117)					
CHEMIST NOTES:						

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N/A

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	City of Carlsbad New Mexico Iax IransmissionCover Sheet 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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10:17

P.01

## American Environmental Network, Inc.

## GENERAL CHEMISTRY RESULTS

				4 (0, 1				
CLIENT		: CITY OF C	ARLSBAD	•	AEN I.D.		. 710346	
PROJECT	#	: (none)			DATE RECEIN	/ED	: 10/10/97	
PROJECT	NAME	: (none)						
SAMPLE				DATE	DATE	DATE	DIL.	
IŌ. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
01	SOIL SAMPLE		NON-AQ	Unknown	10/16/97	10/16/97	100	
PARAMETE	R		DET. LIMIT	UNITS	01			
PETROLEL	IM HYDROCAR	BONS, IR	20	MG/KG	29000			

CHEMIST NOTES: N/A

10:19

0<u>CT-27-97 MON</u>

Contributoritor

### American Environmental Network, Inc.

#### GG/MS REBUILTS.

TEST CLIENT PROJECT #	· VOLATILE ORGA : CITY OF CARLS : (none)	anics epa meth Badi	00 8260 EXT	ENDED AEN I.D. DATE RECEIVED	. <u>1</u> ) :	710 <b>346</b> 10/10/97
PROJECT NAME	; (none)			_		
SAMPLE IO #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
710346-02		AQUEOUS	Unknown	NA	10/15/07	1
PARAMETER	DET. LIMIT		UNITS			
Slyrana	1.0	< 1.0	ug/L			and the second difference of the second differ
Bromoform	1,0	< 1.0	ug/L			
1.1.2.2-Tetrachloroethane	1.0	< 1.0	ug/L			
1,2,3-Trichioropropens	1.0	< 1,ū	ug/L			
isopropyi Senzene	1.0	< 1.0	UgAL			
Bromobenzene	1.0	< 1.0	ug/L			
trans-1,4-Dichloro-2-Sutene	1.0	< 1.0	ug/L			
n-Propylbenzene	1.0	< 1.0	ug/L	(		
2-Chlorololuene	1.0	< 1.0	ug/L			
4-Chlorotoluene	1.0	< 1.0	ug/L			
1,3,5-Trimethylbenzene	1.0	< 1.0	ugit			
tert-Butylbenzene	1.0	< 1.0	ug/L			
1,2,4-Trimathybanzane	1.0	< 1.0	ugiL			
sec-Buiyibenzena	1.0	< 1.0	ug/L			
1,3-Dichlorobensene	1.0	< 1.0	ug/L			
1.4-Dichlorobenzene	1.0	< 1.0	ug/L			
p-isopropykaluené	1.0	< 1.0	ug/L			
1.2-Dichlorobenzene	1.0	< 1.0	ug/L			
n-Bulyibenzana	1.0	< 1.0	uart			
1.2-Dibromomo-3-chioroprozene	1.0	< 1,0	ugil			
1,2,4-Trichlorobenzene	1.0	≺ 1.0	uol.			
Napihaléne	1.0	< 1.0	ug/L			
Hexachiorobutadiana	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
	( 88 - 110 )
Bramofluarabenzone	102
	( 88 - 115 )

5/7'd 0CT-27-97 MON 10:18

## American Environmental Network, Inc.

### GC/MS RESULTS

TEST CLIENT PROJECT #	: VOLATILE ORGANICS EPA METHOD \$260 EXTENDE : CITY OF CARLSBAD : (nane) DAT			ed Aëni.d. Fereceived	710348 10/10/97		
PROJECT NAME	(1078)						
SAMPLE			DATE		DATE	DATE	DIL.
10 #	CLIENT ID	MATRIX	SAMPLED	ĒX	TRACTED	ANALYZED	FACTOR
710346-02	AQ SAMPLE	AQUEOUS	Unknown		N/A	10/15/97	1
PARAMETER	DET. LIMIT		UNITS				
Dichlorodifuoromethane	1.0	< 1.0 - 1.0	Ug/L				
	1.0		Ugit				
	1.U	< 1.U	ug/L				
Chine all had	1.9	~ 1.0	ug/L .				
	1.0	× 1.0	uget.				
	1.0/	~ 1.0 756 (D(CA)	ug/L				
	10		ມຜູ້ນ.				
	ə.u	- 5,0	ug/L				
1, 1-Listricitionene	1.9	= 1.Q	Light.				
Incomeinane Mathulana Oblasida	T.D	< 1.Q	40/5				
Meinylene Chlonga	1.0	< 1.9 - 5 0	បុព្វរដ្ឋ				
	3.U		ug/L				
	1.0	- 10	00/1				
Miknyi-t-buzyi Emer	T.U	< 1.0 - 1.0	ugri				
1,1,2,7,2,2-(nchoromhuoroemene	1.0	• 1.0	ug/L				
1.1-Dichlordethene	1.0	= 1.0 - 1.0	Ug/L				
fans-1,2-Lichloroelhene	1.0	≪ 1.0	UQIL			•	
2-Sutandhe	01	46	ug/L				
Cerbon Disulfide	1.0	< 1.0	ugn.				
Branachiorométhane	1.0	< 1.0	nð\r				
Chloroform	1.0	< 1.0	ugrL				
2,2-Dichloropropens	1.0	≪ 1,0	nöir		1		
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	ug/L				
1,1-Dichloropropene	1.0	< 1.0	ug/L		ł		
Cartson Tetrachionide	3.0	< 1.0	ugh				
Benzene	1.0	2.4	nð\r			•	
1.2-Dichloropropane	1.0	< 1.0	ug/L				
Trichlordethene	1.0	< 1.0 ■	ug/L				
Bromodichloromethane	1.0	< 1.0	ug/L				
2-Chioroethyl Vinyl Ether	10	< 10	Ug/L		]		
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L		-		
trens-1,3-Dichloropropena	1.0	< 1.0	ug/L				
1,1,2-Trichiorosthane	1.0	< 1.0	ug/L				
1,3-Dicitioropropene	1.0	< 1.0	ug/L				
Dibromomethane	1.0	< 1.0	лāl,*				
Toluene	1.0	1.3	ug/L		1		
1.2-Dibromoethane	1.0	410	ug/L	/		\$	
4-Methyl-2-Penlanone	10	< 10	ug/L				
2-Hexarrona	10	< 10	ug/L				
Dibromochloromelhene	1.0	< 1.0	ug/L		1		
Tetrachioroathana	1.0	4 1.0	ug/L				
Chlorobenzene	1.0	4 TQ	ug/L		1		
Elhylbenzene	1.0	< 1.Q	ugit		ł		
1,1,1,2-Tetrachioroelhane	1.0	4 1.0	ug/L				
map Xylenes	1.0	⊈ U.U 4 4 6	ugn.		1		
d-Xylena	1.0	< 1,D	u <b>g/1</b> ,				

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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 Sample Description 46513 AQ Sample (710346-02)

PARAMETERS	METOCODE	REALIZER	REPORT LINET	GRITS	DATE ANALYZED	EL AG
ICP/AA Digestion - Water	xc»	-			10/20/1997	
Antimony, ICP	6018	MD.	0.45	ng/L	10/20/1997	bil.g
Arsenic, 1CP	£010	0.071	0.05	mg/L	10/20/1997	DIL.Q
Servilium. ICP	6010	MD-	0.02	mg/L	10/20/1997	DIL.C
Cadmaum, ICP	6010	סא	¢.03	mg/L	10/20/1997	DIL, O
Chronium, ICP	6018	0.13	0.05	mg/L	10/20/1997	DIL.Q
Copper. ICP	6010	0.14	đ.os	mg/1,	10/20/1997	DIL,Q
Lead. ICP	6010	0.12	0.05	mg/L	10/20/1997	011.C
Mercury Prep (W)	7476	-		1	10/20/1997	
Marcury, CV (N)	7470	0.026	0.002	mg/L	10/33/1997	DTL.Q
Mickel, ICP	6010	9.092	0.05	mg/5	10/20/1947	DIL.Q
Selenium. ICP	6010	¥D.	0.05	mg/1	10/20/1997	DIL.Q
Silver, ICP	6010	ND .	G. 05	thg/L	10/20/1997	DIL.C
Thallium, ICP	6010	XD CX	0.1	mg/L	10/20/1997	dít, Q
Sime, ICP	6010	1.5	G. 05	mg/L	10/20/1997	DIL.Q

A sample result of MD indicates the parameter was Not Detected at the seporting limit.

American Environmental Merwork, 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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