# NM1 -

### **C-138**

## YEAR(S): 2004-2005

	State of New Mexico y Minerals and Natural Resourc	Form C-138 Revised June 10, 2003
1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410	Dil Conservation Division	Submit Original Plus 1 Copy
District IV         1           1220 S. St. Francis Dr., Santa Fe, NM 87505         1	220 South St. Francis Dr. Santa Fe, NM 87505	to Appropriate District Office
REQUEST FOR API	PROVAL TO ACCEPT	SOLID WASTE
		4. Generator Navajo Pipeline
1. RCRA Exempt:       Non-Exempt:       X         □ Verbal Approval Received:       Yes       □	No X	5. Originating Site Monument Sec 35
2. Management Facility Destination Controlled Record		6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs,	NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 35	5-19S-37E, Monument,NM	
9. <u>Circle One</u> :		
one certificate per job. B. All requests for approval to accept non-exempt w material is not-hazardous and the Generator's cer approved All transporters must certify the wastes delivered ar	tification of origin. No waste class	ified hazardous by listing or testing will be
BRIEF DESCRIPTION OF MATERIAL:	ECEIVEI	31-12.2
	MAY O A 2001	000 000 000 000 000 000 000 000 000 00
RE: 05-19-04	MAY 24 2004	
Contaminated Soil.	Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, NM 87505	22 51 110 Y 10 13 19 20 51 51 53 59 59 59 59 59 59 59 59 59 59 59 59 59
Enclosed is certificate of waste status and letter of appro	oval.	62-2-2-2 × 04-91-91-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2
This approval is for this one spill. This material has been	approved in the past.	C 0261 81 11 81
Estimated Volume 1060 yards Known Volume (to be en	tered by the operator at the end of t	he haul)cy
SIGNATURE Kim HOULD Waste Management Facility Authorized Agent	TITLE: <u>Rep</u> DATE: <u>0</u>	5-19-04
TYPE OR PRINT NAME: <u>Kim Flowers</u> TELEPH	ONE NO. <u>(505)393-1079</u>	
E-MAIL ADDRESS david@crihobbs.com		1 22 20 20 20 20 20 20 20 20 20 20 20 20
(This space for State Use)		
APPROVED BK Maluson	TITLE: ENJIRO ENL	DATE: 5.20.04
APPROVED BY Minty ghty.	TITLE: <u>Environmentel</u>	DATE: <u>5.20.04</u> Galayizz DATE: <u>5-26-04</u>

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### **CERTIFICATE OF WASTE STATUS**

Non-Exempt Waste Material

ORIGINATION LOCATION: <u>\$35, 195, 37E, LEA County</u>

SOURCE: <u>6" Crude Line</u>

DISPOSAL LOCATION: CRI

As a condition of acceptance for disposal, I hereby certify that this waste is non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3.

I, the undersigned as the agent for <u>Navajo\_Refining</u> concur with the status of the waste from subject site.

Name:	Bob Allen
Title/Agency:	President/SESI
Address:	703 E. Clinton, Hobbs, NM
Signature:	Balle
Date:	5-13-04

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

GARY E. JOHNSON Governor Jennifer A. Salisbury Cabinet Secretary

June 13, 2001

Lori Wrotenbery Director Oil Conservation Division

### <u>CERTIFIED MAIL</u> RETURN RECEIPT NO. 7099-3220-0000-5051-2399

Mr. Darrell Moore Navajo Refining Co. P.O. Box 159 Artesia, NM 88211-0159

### RE: Navajo Refining Company, Crude Oil Pipeline and Trucking Spills

Dear Mr. Moore:

The New Mexico Oil Conservation Division (OCD) has reviewed the Navajo Refining Company's (Navajo) January 15, 2001 letter regarding Navajo, crude oil pipeline and trucking spills. The letter requests that Navajo be allowed to use the analyses submitted previously on December 28, 1995, January 30, 1996 and statement of process knowledge for determining the soils to be RCRA non-hazardous during future crude oil pipeline and trucking spill remediations.

The above referenced request is approved with the following conditions:

- 1. The above representative analyses can be used in lieu of individual sampling of each spill event until December 31, 2005.
- 2. Navajo will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
- 3. Navajo will notify the OCD within 24 hours of any system changes which could potentially alter the composition of any spilled crude such that RCRA hazardous waste characteristics in the spill area could be exceeded.

Please be advised that OCD approval does not relieve Navajo of liability should these types of leaks and spills result in actual contamination of surface water, ground water of the environment. In addition, OCD approval does not relieve Navajo of responsibility for compliance with any other federal, state or local laws and/or regulations. If you have any questions please contact me at (505) 476-3490.

CERTIFICATE OF WASTE STATUS EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION" COMPANY / GENERATOR\_OCD\_\_\_\_\_\_\_ ADDRESS\_1220 s. st. Francis Drive, Santa Fe, NM 87505 GENERATING SITE\_Arabo disposal Facility\_\_\_\_\_\_ COUNTY\_Lea\_\_\_STATE\_NM\_\_\_\_\_ TYPE OF WASTE\_Liquids and Sludge ESTIMATED VOLUME\_BOOD\_BBLS and 1680\_Yards GENERATING PROCESS\_SWD\_Permit Gw-037\_\_\_\_\_\_ REMARKS\_Liquids & Sludge\_From the Lined Disposal Pit\_\_\_\_\_\_

May 24 04 11:02a

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NMOCD FACILITY CRI

TRUCKING COMPANY\_CRI

I hereby certify represent and warrant that the wastes are generated from oil and gas exploration and production operations exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations; and not mixed with non-exempt wastes.

AGENT Montyn gilly.
SIGNATURE
NAME_ <u>Martyne Kieling</u>
PRINTED ADDRESS 1220 S. St. Francis Drive
<u>Santa Fe, NM 87505</u>

DATE 05/24/04

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources** 

> **Oil Conservation Division** 1220 South St. Francis Dr. OIL CONSERVATION Santa Fe, NM 87505

RECEIVED

MAY 1 9 2004

DIVISION

Form C-138 Revised June 10, 2003

> Submit Original Plus 1 Čopy to Appropriate District Office

### **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: D Non-Exempt: X	4. Generator Halliburton Energy Services	
□Verbal Approval Received: Yes □ No X	5. Originating Site Hobbs Facility	
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI	
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico	
7. Location of Material (Street Address or ULSTR) 5801 Lovington Hwy, Hobbs, NM		
9. <u>Circle One</u> :		
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.		
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved		

All transporters must certify the wastes delivered are only those consigned for transport.

### **BRIEF DESCRIPTION OF MATERIAL:** 101112 132 RE: 05-12-04 Neutralized PAD Acid Residue Small amounts of this material that remains on the transport is returned to the Halliburton facility to be neutralized. 153<sup>38</sup> Enclosed is certificate of waste status and MSDS data. This approval is for one year. This material has been approved in the past.(07-17-02) Estimated Volume 50 bbls per month Known Volume (to be entered by the operator at the end of the haul) cy SIGNATURE TITLE: Rep DATE: 05-12-04 Waste Management Facility Authorized Agent 1-400250 TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079 E-MAIL ADDRESS david@crihobbs.com

(This space for State Us TITLE: Environmentel Enge DATE: 5-17-04 TITLE: Environmentel Coologist DATE: 5/20/04 APPROVED BY: ( **APPROVED BY:** 

### CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL

AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: \_\_\_\_\_ Halliburton\_\_\_\_

ADDRESS: <u>5801 Lovington Hwy</u>

GENERATING SITE: <u>Halliburton Energy Services, 5801 Lovington Hwy,</u> <u>Hobbs, NM</u> COUNTY <u>Lea</u> STATE <u>NM</u>

ESTIMATED VOLUME: \_\_\_\_\_500 BBLS

GENERATING PROCESS: <u>PAD Acid is an emulsified mixture of HCL acid</u> and Xylene Bottoms. We blend the material in our facility and send it out to job sites. After the job, there are small amounts of theis material that remains on the transports. This material is returned to the facility, neutralized with sodium bicarbonate and/or soda ash to a PH between 6 and 8.5.

NMOCD FACILITY: Controlled Recovery Inc.

TRUCKING FACILITY: Controlled Recovery Inc

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous of listed waste" pursuant to the provisions of 40 CFR, Part 261, subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT:	H lisi
	J J J J J J J J J J J J J J J J J J J
NAME:	<u>/HARVEY PRICE</u>
	PRINTED
ADDRESS:	5801 Lovington Hwy Hobbs, NM 88240

DATE: <u>5/12/2004</u>

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District 1 1425 N. Fetreih Dr.

534 20210

Dentics II 1208 W. (

Diserie: 10

Form C+135

texa Origin

Oil Conservation Division ODS Ro B also a ta sh 1220 South St. Francis Dr. Detractor 1200 S. St. Francia Dr., Same Pic, NM 47505 la Agenenista District Office Sanza Fe, NM 87505 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 4. Generator Halliburton Energy Services 1. RCRA Escirpt: 🔲 – Non-Escirpt: X Verbal Approval Received. Ya 🔲 No X 5 Orginating See Hubbs Facility 1. Management Pacificy Destination Controlled Recovery Inc. 6. Transporter Hallsburton J. Address of Facility Operator 8 Stille New Mexico P.O. Box 388, Hobbs 3. Location of Material (Street Address on ULSTR), 5500 Lowington Hwy., Hobbs New Mexico 9. Circle One: A. All requests for approval to accept eitfield example wastes with be accompanied by a certification of waste from the Generator, one confiliante per job-B. All requests for approval to accept non-eccept wastes must be accomparied by necessary chemical analysis to PROVE the material is not-heartons and the Generator's certification, of migin. No waste classified bacerdous by litting or testing will be arrenned 678970 All tradsporters must certify the wastes definiered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: AC OF 61. 07-17-02 Neutralized PAD Acid Residue Small amounts of this material that remains on the transports is returned to the Hallihurton facility to be neutralized. Enclosed is certificate of waste status and MSDS data to approve this waste stream through \$11 H 1920 21 23 July 20, 2003. Estimated Volume areas, 50 bbls, per month, cy Known Volume (to be enterpline to the had) \_\_\_\_ we Eperator as the \_C7 ( de priel a l'an 19 (1) rate - TILE : Neue Manger an Inites Antoning Agers Bookkinger SKRNATURE 07-07-02 TYPE OR PRINT NAME: Carmella Van Maxmen CHEPHONE NO. (505) 393-1079 5 t c 3

State of New Mexico

Energy Minerals and Natural Resources

(This space for State Use)		
APPROVED B	TITLE ENVIEW FACE	DATE THITLOZ
APPROVED BY: That off	TITLE Environment Geologist	DATE 7/23/02

### FW: CRI CHEMICALS

### Page 1 of 2

### Office

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From:Stephen Bailey [Stephen.Bailey@Halliburton.com]Sent:Tuesday, July 16, 2002 8:33 AMTo:CRISubject:FW: CRI CHEMICALS

Ken,

Here is the process that we follow concerning the PAD ACID. The PAD acid is a combination of hcl acid and xylene bottoms that is emulsified with WS-44. There are small amounts of the PAD acid that is returned to the facility that does not get pumped down hole. These returns get dumped into a sump at the acid dock and neutralized with sodium bicarbonate and/or soda ash. The PH is raised up to a minimum of 6 to a maximum of 8-8.5ph. The acid is neutralized and the xylene bottoms has a flash point above 140 degrees.

If you have any other questions concerning this process, please let me know.

Thanks,

**Stephen W. Bailey** 

FSQC

505-392-0701-Office

505-631-1817-Cell

505-738-1123-Home

505-392-7062-Fax

-----Original Message-----From: Stephen Bailey Sent: Tuesday, July 16, 2002 8:34 AM To: 'CRI' Subject: FW: CRI CHEMICALS

Stephen W. Bailey

FSQC

505-392-0701-Office

505-631-1817-Cell

505-738-1123-Home

7/16/2002

### FW: CRI CHEMICALS

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### 505-392-7062-Fax

-----Original Message-----From: Harvey Price Sent: Tuesday, July 16, 2002 8:28 AM To: Stephen Bailey Subject: CRI CHEMICALS

<<XYLENE BOTTOMS.pdf>> <<HYDROCHLORIC ACID.pdf>> <<PAD ACID.pdf>> <<SODA ASH.pdf>> <<SODIUM BICARBONATE.pdf>> <<WS-44.pdf>>

HARVEY PRICE

MAINTENANCE ASSOCIATE

505-392-0746 OFFICE

505-390-1609 CELLULAR

### FW: CRI CHEMICALS

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From:Stephen Bailey [Stephen.Bailey@Halliburton.com]Sent:Tuesday, July 16, 2002 7:34 AMTo:CRISubject:FW: CRI CHEMICALS

### Stephen W. Bailey

**FSQC** 

505-392-0701-Office

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HARVEY PRICE

MAINTENANCE ASSOCIATE

505-392-0746 OFFICE

505-390-1609 CELLULAR

### HALLIBURTON

### **MATERIAL SAFETY DATA SHEET**

### WS-44 EMULSIFYING AGENT

Revision Date:

T

06/13/2001

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: Synonyms: Chemical Family: Application: WS-44 EMULSIFYING AGENT None Blend Emulsifier

Manufacturer/Supplier Halliburton Energy Services P.O. Box 1431 Duncan, Oklahoma 73536-0431

Emergency Telephone: (800) 666-9260 or (713) 676-3000

### **Prepared By**

Product Stewardship Telephone: 1-580-251-4335

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance_	<u>Weight</u> Percent (%)	ACGIH TLV-TWA	OSHA PEL-TWA
Isopropanol 67-63-0	10 - 30%	400 ppm, 983 mg/m3	400 ppm, 980 mg/M3
Heavy aromatic naphtha solvent 67891-79-6	1 - 5%	Not applicable	Not applicable
Naphthalene 91-20-3	1 - 5%	10 ppm	10 ppm
Substance	<u>Weight</u> Percent (%)	ACGIH TLV-TWA	OSHA PEL-TWA
Proprietary component Mixture	Unknown	Not applicable	Not applicable

WS-44 EMULSIFYING AGENT Page 1 of 8

### 3. HAZARDS IDENTIFICATION

### **Hazard Overview**

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May cause eye and skin burns. May cause respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. May cause allergic skin reaction. Potential carcinogen. Repeated overexposure may cause liver and kidney effects. Combustible.

### 4. FIRST AID MEASURES

### Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

### Skin

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

### Eyes

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

### Ingestion

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

### Notes to Physician

Not Applicable

### 5. FIRE FIGHTING MEASURES

Flash Point/Range (F):	115
Flash Point/Range (C):	46
Flash Point Method:	Not Determined
Autoignition Temperature (F):	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (%):	0.8
Flammability Limits in Air - Upper (%):	12

### Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

### Special Exposure Hazards

Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Avoid spraying water directly into storage containers due to danger of boilover. Decomposition in fire may produce toxic gases.

### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

NFPA Ratings:

Health 3, Flammability 2, Reactivity 0

WS-44 EMULSIFYING AGENT Page 2 of 8

### 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautionary Measures**

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

### **Environmental Precautionary Measures**

Prevent from entering sewers, waterways or low areas.

### Procedure for Cleaning/Absorption

Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. Scoop up and remove.

### 7. HANDLING AND STORAGE

### Handling Precautions

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

### Storage Information

Store away from oxidizers. Store in a cool well ventilated area. Keep container closed when not in use.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Engineering Controls**

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

### **Respiratory Protection**

Organic vapor respirator.

### Hand Protection

Impervious rubber gloves.

### Skin Protection

Full protective chemical resistant clothing.

### **Eye Protection**

Chemical goggles; also wear a face shield if splashing hazard exists.

### **Other Precautions**

Eyewash fountains and safety showers must be easily accessible. Persons with hypersensitivity to alkyl phenol surfactants should avoid all contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Color: Odor: pH: Specific Gravity @ 20 C (Water=1): Density @ 20 C (Ibs./gallon):

Liquid Clear light yellow Hydrocarbon 7.5 0.98 8.16

> WS-44 EMULSIFYING AGENT Page 3 of 8

Bulk Density @ 20 C (lbs/ft3): **Boiling Point/Range (F): Boiling Point/Range (C):** Freezing Point/Range (F): Freezing Point/Range (C): Vapor Pressure @ 20 C (mmHg): Vapor Density (Air=1): **Percent Volatiles:** Evaporation Rate (Butyl Acetate=1): Solubility in Water (g/100ml): Solubility in Solvents (g/100ml): Solubility in Sea Water (g/100ml): VOCs (lbs./gallon): Viscosity, Dynamic @ 20 C (centipoise): Viscosity, Kinematic @ 20 C (centistrokes): Partition Coefficient/n-Octanol/Water: Molecular Weight (g/mole):

Not Determined 330 165 Not Determined 5 Not Determined 12 Not Determined Disperses Not Determined Not Determined Not Determined

Not Determined

Not Determined Not Determined Not Determined

### 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid Keep away from heat, sparks and flame.

Incompatibility (Materials to Avoid) Strong oxidizers.

Hazardous Decomposition Products Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

### **11. TOXICOLOGICAL INFORMATION**

### **Principle Route of Exposure**

Eye or skin contact, inhalation.

### Inhalation

Causes severe respiratory irritation. This material is an anesthetic. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

### Skin Contact

May cause skin irritation. May cause an allergic skin reaction.

### Eye Contact

Causes severe eye irritation May cause eye burns.

WS-44 EMULSIFYING AGENT Page 4 of 8

### Ingestion

Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, nausea, and diarrhea.

### **Aggravated Medical Conditions**

Skin disorders.

### **Chronic Effects/Carcinogenicity**

This product contains significant amounts of polynuclear aromatic hydrocarbons (PNA). Certain PNAs have been shown to cause skin cancer in laboratory animals and may also cause cancer of the lungs and other sites. Contains petroleum distillates which have been shown to cause skin cancer in laboratory animals. Formaldehyde and possibly paraformaldehyde may react with hydrochloric acid to form bis-chloromethyl ether, a known carcinogen. Repeated overexposure may cause liver and kidney effects. Prolonged or repeated exposure may cause embryo and fetus toxicity.

### Other Information

None known.

**Toxicity Tests** 

Oral Toxicity:	Not determined
Dermal Toxicity:	Not determined
Inhalation Toxicity:	Not determined
Primary Irritation Effect:	Not determined
Carcinogenicity Not determined	
Genotoxicity:	Not determined
Reproductive/Developmental Toxicity:	Not determined

### 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not Determined

Ecotoxicological Information Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

**Chemical Fate Information** 

WS-44 EMULSIFYING AGENT Page 5 of 8

### Other Information Not applicable

### 13. DISPOSAL CONSIDERATIONS

### **Disposal Method**

Disposal should be made in accordance with federal, state and local regulations.

### **Contaminated Packaging**

If empty container retains product residues, all label precautions must be observed. Store away from ignition sources. Transport with all closures in place. Return for reuse or disposal according to national or local regulations.

### 14. TRANSPORT INFORMATION

### Land Transportation

### DOT

Flammable Liquid, N.O.S., 3, UN1993, III, (46.1 C) (Contains Petroleum Naphtha)

NAERG 128

### **Canadian TDG**

Flammable Liquid, N.O.S., 3, UN1993, III (Contains Petroleum Naphtha)

### ADR

UN1993,Flammable Liquid, N.O.S., 3, III (Contains Petroleum Naphtha)

### Air Transportation

### ICAO/IATA

Flammable Liquid, N.O.S., 3, UN1993, III (Contains Petroleum Naphtha Solution)

### Sea Transportation

### IMDG

Flammable Liquid, N.O.S.(Contains Petroleum Naphtha), 3.3, UN1993, III, (46.1 C) EMS 3-07

### **Other Shipping Information**

WS-44 EMULSIFYING AGENT Page 6 of 8 Labels:

### **15. REGULATORY INFORMATION**

### **US Regulations**

**US TSCA Inventory** All components listed on inventory.

EPA SARA Title III Extremely Hazardous Substances Not applicable

EPA SARA (311,312) Hazard Class Acute Health Hazard Chronic Health Hazard Fire Hazard

### EPA SARA (313) Chemicals

This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372: Naphthalene//91-20-3 Isopropanol//67-63-0

### EPA CERCLA/Superfund Reportable Spill Quantity For This Product EPA Reportable Spill Quantity is 613 Gallons based on Naphthalene (CAS: 91-20-3).

EPA RCRA Hazardous Waste Classification If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Ignitability

California Proposition 65 All components listed do not apply to the California Proposition 65 Regulation.

MA Right-to-Know Law One or more components listed.

NJ Right-to-Know Law One or more components listed.

PA Right-to-Know Law One or more components listed.

### **Canadian Regulations**

Canadian DSL Inventory All components listed on inventory.

> WS-44 EMULSIFYING AGENT Page 7 of 8

### **16. OTHER INFORMATION**

### The following sections have been revised since the last issue of this MSDS

Not applicable

### **Additional Information**

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Product Stewardship at 1-580-251-4335.

### **Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

\*\*\*END OF MSDS\*\*\*

HALLIBURTON

### MATERIAL SAFETY DATA SHEET

### **Product Trade Name:**

SODA ASH

**Revision Date:** 

06/04/2002

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

( )

Product Trade Name: Synonyms: Chemical Family: Application:	SODA ASH None Carbonate Buffer
Manufacturer/Supplier	Halliburton Energy Services P.O. Box 1431 Duncan, Oklahoma 73536-0431 Emergency Telephone: (800) 666-9260 or (713) 676-3000
Prepared By	Product Stewardship Telephone: 1-580-251-4335

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Sodium carbonate	497-19-8	60 - 100%	Not applicable	Not applicable

### 3. HAZARDS IDENTIFICATION

Hazard Overview

May cause eye, skin, and respiratory irritation.

### 4. FIRST AID MEASURES

Inhalation	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
Skin	Wash with soap and water. Get medical attention if irritation persists.
Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Ingestion	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Notes to Physician	Not Applicable

SODA ASH Page 1 of 5

### 5. FIRE FIGHTING MEA RES

Flash Point/Range (F): Flash Point/Range (C): Flash Point Method: Autoignition Temperature (F): Autoignition Temperature (C): Flammability Limits in Air - Lower (%): Flammability Limits in Air - Lower (oz./ft3): Flammability Limits in Air - Upper (%): Flammability Limits in Air - Upper (oz./ft3): Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined Not applicable Not Determined Not applicable

Fire Extinguishing Media	Water fog, carbon dioxide, foam, dry chemical.
Special Exposure Hazards	Decomposition in fire may produce toxic gases.
Special Protective Equipment Fire-Fighters	forFull protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.
NFPA Ratings: HMIS Ratings:	Health 2, Flammability 0, Reactivity 0 Flammability 0, Reactivity 0, Health 2

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures	Use appropriate protective equipment. Avoid creating and breathing dust.	
Environmental Precautionary Measures	Prevent from entering sewers, waterways or low areas.	
Procedure for Cleaning/Absorption	Scoop up and remove.	

### 7. HANDLING AND STORAGE

Handling PrecautionsAvoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust.Storage InformationStore away from acids. Store in a cool, dry location. Product has a shelf life of 36<br/>months.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering ControlsUse in a well ventilated area. Localized ventilation should be used to control dust<br/>levels.Respiratory ProtectionDust/mist respirator. (95%)Hand ProtectionNormal work gloves.Skin ProtectionNormal work coveralls.Eye ProtectionDust proof goggles.Other PrecautionsEyewash fountains and safety showers must be easily accessible.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Color: Powder White

SODA ASH Page 2 of 5

Odor: pH: Specific Gravity @ 20 C (Water=1): Density @ 20 C (lbs./gallon): Bulk Density @ 20 C (lbs/ft3): **Boiling Point/Range (F): Boiling Point/Range (C):** Freezing Point/Range (F): Freezing Point/Range (C): Vapor Pressure @ 20 C (mmHg): Vapor Density (Air=1): **Percent Volatiles: Evaporation Rate (Butyl Acetate=1):** Solubility in Water (g/100ml): Solubility in Solvents (g/100ml): VOCs (lbs./gallon): Viscosity, Dynamic @ 20 C (centipoise): Viscosity, Kinematic @ 20 C (centistrokes): Partition Coefficient/n-Octanol/Water: Molecular Weight (g/mole):

Odorless 11.5 (1% sol.) 2.5 Not Determined 48 to 62 Not Determined Partially soluble Not Determined Not Determined Not Determined Not Determined Not Determined 105.99

### 10. STABILITY AND REACTIVITY

Stability Data:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid	None anticipated
Incompatibility (Materials to Avoid)	Strong acids.
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide.
Additional Guidelines	Not Applicable

### 11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure		Eye or skin contact, inhalation.	
Inhalation		May cause respiratory irritation.	
	Skin Contact	Prolonged or repeated contact may cause skin irritation.	
	Eye Contact	May cause eye irritation.	
	Ingestion	Irritation of the mouth, throat, and stomach.	
Aggravated Medical Conditions None known.		None known.	
Chronic Effects/Carcinogenicity		No data available to indicate product or components present at greater than 1% are chronic health hazards.	
	Other Information	None known.	
	Toxicity Tests		
	Oral Toxicity:	LD50: 4220 mg/kg (Rat)	
	Dermal Toxicity:	Not determined	

SODA ASH Page 3 of 5 Inhalation Toxicity:Not determinedPrimary Irritation Effect:Not determinedCarcinogenicityNot determinedGenotoxicity:Not determinedReproductive /<br/>Developmental Toxicity:Not determined

### 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)Not determinedPersistence/DegradabilityNot applicableBio-accumulationNot Determined

### Ecotoxicological Information

Acute Fish Toxicity: Acute Crustaceans Toxicity:	TLM24: 385 mg/l (Lepomis macrochirus) Not determined
Acute Algae Toxicity:	Not determined
Chemical Fate Information	Not determined
Other Information	Not applicable

### 13. DISPOSAL CONSIDERATIONS

**Disposal Method** Bury in a licensed landfill according to federal, state, and local regulations.

**Contaminated Packaging** Follow all applicable national or local regulations.

### **14. TRANSPORT INFORMATION**

### Land Transportation

DOT Not restricted

Canadian TDG Not restricted

**ADR** Not restricted

### **Air Transportation**

ICAO/IATA Not restricted

### Sea Transportation

IMDG Not restricted

### **Other Shipping Information**

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### 15. REGULATORY INFORMATION

### **US Regulations**

US TSCA Inventory	All components listed on inventory.
EPA SARA Title III Extremely Hazardous Substances	Not applicable
EPA SARA (311,312) Hazard Class	Acute Health Hazard
EPA SARA (313) Chemicals	This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).
EPA CERCLA/Superfund Reportable Spill Quantity For This Product	Not applicable.
EPA RCRA Hazardous Waste Classification	If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.
California Proposition 65	All components listed do not apply to the California Proposition 65 Regulation.
MA Right-to-Know Law	Does not apply.
NJ Right-to-Know Law	Does not apply.
PA Right-to-Know Law	Does not apply.
Canadian Regulations	
Canadian DSL Inventory	All components listed on inventory.
WHMIS Hazard Class	Non-Controlled

### 16. OTHER INFORMATION

The following sections have been revised since the last issue of this MSDS. Not applicable

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Product Stewardship at 1-580-251-4335.

**Disclaimer Statement** 

Additional Information

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

### \*\*\*END OF MSDS\*\*\*

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### HALLIBURTON

### MATERIAL SAFETY DATA SHEET

### PAD ACID (less than 10% HF and less than 10% HCL)

Revision Date:

06/28/2001

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: Synonyms: Chemical Family: Application: PAD ACID (less than 10% HF and less than 10% HCL) None Blend Solvent

Manufacturer/Supplier Halliburton Energy Services P.O. Box 1431 Duncan, Oklahoma 73536-0431

Emergency Telephone: (800) 666-9260 or (713) 676-3000

Product Stewardship Telephone: 1-580-251-4335

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	<u>Weight</u> Percent (%	ACGIH TLV-TWA	OSHA PEL-TWA	
Light aromatic solvent 64742-95-6	10 - 30%	Not applicable	Not applicable	
Hydrochloric acid 7647-01-0	5 - 10%	5 ppm	5 ppm	
Hydrofluoric acid 7664-39-3	5 - 10%	3 ppm	3 ppm	

### 3. HAZARDS IDENTIFICATION

### **Hazard Overview**

May cause eye, skin, and respiratory burns. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. May be fatal if absorbed through the skin. Potential carcinogen.

PAD ACID (less than 10% HF and less than 10% HCL) Page 1 of 8  $\,$ 

### 4. FIRST AID MEASURES

### Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

### Skin

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse. Wearing protective gloves, apply 2.5% calcium gluconate gel at burn site rubbing continuously.

### Eyes

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing. If available, apply 1 to 2 drops of 0.5% Pontocaine Hydrochloride into open eye. Irrigate with 1.0% calcium gluconate in normal saline for 1 to 2 hours.

### Ingestion

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

### Notes to Physician Not Applicable

### 5. FIRE FIGHTING MEASURES

Flash Point/Range (F):	
Flash Point/Range (C):	
Flash Point Method:	
Autoignition Temperature (F):	
Autoignition Temperature (C):	
Flammability Limits in Air - Lower (%):	
Flammability Limits in Air - Upper (%):	

Not Determined Min: > 140 Min: > 60

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

### **Special Exposure Hazards**

Reaction with steel and certain other metals generates flammable hydrogen gas. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations. Do not allow runoff to enter waterways. Decomposition in fire may produce toxic gases.

### Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

NFPA Ratings:	Health 4, Flammability 1, Reactivity 0
HMIS Ratings:	Flammability 1, Reactivity 0, Health 4

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Wear full protective gear.

> PAD ACID (less than 10% HF and less than 10% HCL) Page 2 of 8

### Environmental Precautionary Mea

Prevent from entering sewers, waterways or low areas.

### Procedure for Cleaning/Absorption

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Neutralize to pH of 6-8. Scoop up and remove.

### 7. HANDLING AND STORAGE

### **Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

### Storage Information

Store away from alkalis. Store in a cool well ventilated area. Keep from heat, sparks, and open flames. Keep container closed when not in use.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Engineering Controls**

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

### Respiratory Protection

Organic vapor/acid gas respirator.

### Hand Protection Impervious rubber gloves.

### **Skin Protection**

Full protective chemical resistant clothing.

### **Eye Protection**

Chemical goggles; also wear a face shield if splashing hazard exists.

### **Other Precautions**

Eyewash fountains and safety showers must be easily accessible.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Color: Odor: pH: Specific Gravity @ 20 C (Water=1): Density @ 20 C (lbs./gallon): Bulk Density @ 20 C (lbs/ft3): Boiling Point/Range (F): Boiling Point/Range (C): Freezing Point/Range (C): Freezing Point/Range (C): Vapor Pressure @ 20 C (mmHg): Vapor Density (Air=1): Percent Volatiles:

Liquid Clear colorless Pungent irritating 0.5 1.11 9.25 Not Determined Not Determined

PAD ACID (less than 10% HF and less than 10% HCL) Page 3 of 8 Evaporation Rate (Butyl Acetate= Solubility in Water (g/100ml): Solubility in Solvents (g/100ml): Solubility in Sea Water (g/100ml): VOCs (lbs./gallon): Viscosity, Dynamic @ 20 C (centipoise): Viscosity, Kinematic @ 20 C (centistrokes): Partition Coefficient/n-Octanol/Water: Molecular Weight (g/mole):

Not Determined Soluble Not Determined Soluble Not Determined

Not Determined

Not Determined Not Determined Not Determined

### **10. STABILITY AND REACTIVITY**

Stability Data:

Stable

Hazardous Polymerization: Will Not Occur

**Conditions to Avoid** Keep away from heat, sparks and flame.

Incompatibility (Materials to Avoid) Contact with metals. Strong alkalis. Silicone bearing materials. Strong oxidizers.

### **Hazardous Decomposition Products**

Flammable hydrogen gas. Chlorine. Hydrogen fluoride. Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

### **11. TOXICOLOGICAL INFORMATION**

Principle Route of Exposure

Eye or skin contact, inhalation.

### Inhalation

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Causes severe respiratory burns. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. May cause lungs to fill with fluids.

### **Skin Contact**

Causes skin burns which may not be immediately painful or visible. Effects on skin may be delayed for 24-48 hours. May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

### Eye Contact

Causes severe eye burns.

### Ingestion

Causes burns of the mouth, throat and stomach. May cause damage to bones and teeth. May cause abdominal pain, vomiting, nausea, and diarrhea. Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

### **Aggravated Medical Conditions**

Skin disorders. Eye ailments.

PAD ACID (less than 10% HF and less than 10% HCL) Page 4 of 8

### **Chronic Effects/Carcinogenicity**

Prolonged or repeated exposure may cause central nervous system and brain effects. Prolonged, excessive exposure may cause erosion of the teeth. Prolonged or repeated exposure may result in fluorosis. Symptoms include nausea, vomiting, loss of appetite, diarrhea, and/or constipation. Fluorosis also results in bone density increase. Contains petroleum distillates which have been shown to cause skin cancer in laboratory animals.

Other	Information
None	known.

**Toxicity Tests** 

Oral Toxicity:	Not determined
Dermal Toxicity:	Not determined
Inhalation Toxicity:	Not determined
Primary Irritation Effect:	Not determined
Carcinogenicity Not determined	
Genotoxicity:	Not determined

Reproductive/Developmental Toxicity:

Not determined

### 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not Determined

Ecotoxicological Information Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

Other Information Not applicable

> PAD ACID (less than 10% HF and less than 10% HCL) Page 5 of 8

### 13. DISPOSAL CONSIDERA

### **Disposal Method**

Disposal should be made in accordance with federal, state and local regulations.

### Contaminated Packaging

Follow all applicable national or local regulations.

### 14. TRANSPORT INFORMATION

### Land Transportation

### DOT

Corrosive Liquid, Acidic, Inorganic, N.O.S., 8, UN3264, II (Contains Hydrofluoric Acid, Hydrochloric Acid)

RQ (Hydrochloric Acid - 2273 kg., Hydrofluoric Acid - 45.4 kg.) NAERG 154

### **Canadian TDG**

Corrosive Liquid, N.O.S., 8, (9.2), UN1760, II (Contains Hydrofluoric Acid, Hydrochloric Acid)

### ADR

UN3264, Corrosive Liquid, Acidic, Inorganic, N.O.S., 8, II (Contains Hydrofluoric Acid, Hydrochloric Acid)

### Air Transportation

### ICAO/IATA

Corrosive Liquid, Acidic, Inorganic, N.O.S., 8, UN3264, II (Contains Hydrofluoric Acid, Hydrochloric Acid Solution) RQ (Hydrochloric Acid - 2273 kg., Hydrofluoric Acid - 45.4 kg.)

### Sea Transportation

### IMDG

Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Hydrofluoric Acid, Hydrochloric Acid), 8, UN3264, II RQ (Hydrochloric Acid - 2273 kg., Hydrofluoric Acid - 45.4 kg.) EMS 8-15

### **Other Shipping Information**

Labels:

Corrosive

PAD ACID (less than 10% HF and less than 10% HCL) Page 6 of 8

### **15. REGULATORY INFORMATION**

### **US Regulations**

### US TSCA Inventory All components listed on inventory.

EPA SARA Title III Extremely Hazardous Substances CAS: 7664-39-3//Chemical Name: Hydrogen Fluoride///TPQ: 500

EPA SARA (311,312) Hazard Class Acute Health Hazard Chronic Health Hazard Fire Hazard

EPA SARA (313) Chemicals This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372: Hydrogen Fluoride//7664-39-3

**EPA CERCLA/Superfund Reportable Spill Quantity For This Product** EPA Reportable Spill Quantity is 180 Gallons based on Hydrofluoric acid (CAS: 7664-39-3).

### **EPA RCRA Hazardous Waste Classification**

If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Corrosivity

California Proposition 65 All components listed do not apply to the California Proposition 65 Regulation.

MA Right-to-Know Law One or more components listed.

NJ Right-to-Know Law One or more components listed.

PA Right-to-Know Law One or more components listed.

### **Canadian Regulations**

Canadian DSL Inventory All components listed on inventory.

### WHMIS Hazard Class

E Corrosive Material B3 Combustible Liquids

> PAD ACID (less than 10% HF and less than 10% HCL) Page 7 of 8

### **16. OTHER INFORMATION**

### The following sections have been revised since the last issue of this MSDS Not applicable

### Additional Information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Product Stewardship at 1-580-251-4335.

### **Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

### \*\*\*END OF MSDS\*\*\*

PAD ACID (less than 10% HF and less than 10% HCL) Page 8 of 8

### MATERIAL SAFETY DATA SHEET

### HYDROCHLORIC ACID

Revision Date:

08/15/2001

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name:	
Synonyms:	
Chemical Family:	
Application:	

HYDROCHLORIC ACID None Inorganic acid Solvent

Manufacturer/Supplier Halliburton Energy Services P.O. Box 1431 Duncan, Oklahoma 73536-0431

Emergency Telephone: (800) 666-9260 or (713) 676-3000

Product Stewardship Telephone: 1-580-251-4335

2. COMPOSITION/INFORMATION ON INGREDIENTS				
Substance	<u>Weight</u> Percent (?	ACGIH TLV-TWA	OSHA PEL-TWA	
Hydrochloric acid 7647-01-0	30 - 60%	5 ppm	5 ppm	

HALLIBURTON

### 3. HAZARDS IDENTIFICATION

### **Hazard Overview**

May cause eye, skin, and respiratory burns. May be harmful if swallowed.

### 4. FIRST AID MEASURES

### Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult

HYDROCHLORIC ACID Page 1 of 7

### Skin

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

### Eyes

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

### Ingestion

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

### Notes to Physician Not Applicable

### 5. FIRE FIGHTING MEASURES

Flash Point/Range (F): Flash Point/Range (C): Flash Point Method: Autoignition Temperature (F): Autoignition Temperature (C): Flammability Limits in Air - Lower (%): Flammability Limits in Air - Upper (%): Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined

Fire Extinguishing Media Water fog, carbon dioxide, foam, dry chemical.

### **Special Exposure Hazards**

May form explosive mixtures with strong alkalis. Decomposition in fire may produce toxic gases. Reaction with steel and certain other metals generates flammable hydrogen gas. Do not allow runoff to enter waterways.

### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

NFPA Ratings:

Health 3, Flammability 0, Reactivity 1

HMIS Ratings:

Flammability 0, Reactivity 1, Health 3

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures

Use appropriate protective equipment.

### Environmental Precautionary Measures

Prevent from entering sewers, waterways or low areas.

### **Procedure for Cleaning/Absorption**

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Neutralize to pH of 6-8. Scoop up and remove.

HYDROCHLORIC ACID Page 2 of 7

### 7. HANDLING AND STORAC.

### **Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

### Storage Information

Store away from alkalis. Store in a cool well ventilated area. Keep container closed when not in use.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Engineering Controls**

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

### **Respiratory Protection**

Acid gas respirator.

### Hand Protection

Impervious rubber gloves.

### **Skin Protection**

Full protective chemical resistant clothing.

### Eye Protection

Chemical goggles; also wear a face shield if splashing hazard exists.

### **Other Precautions**

Eyewash fountains and safety showers must be easily accessible.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Color: Odor: pH: Specific Gravity @ 20 C (Water=1): Density @ 20 C (lbs./gallon): Bulk Density @ 20 C (lbs/ft3): **Boiling Point/Range (F): Boiling Point/Range (C):** Freezing Point/Range (F): Freezing Point/Range (C): Vapor Pressure @ 20 C (mmHg): Vapor Density (Air=1): **Percent Volatiles:** Evaporation Rate (Butyl Acetate=1): Solubility in Water (g/100ml): Solubility in Solvents (g/100ml): Solubility in Sea Water (g/100ml): VOCs (lbs./gallon): Viscosity, Dynamic @ 20 C (centipoise): Viscosity, Kinematic @ 20 C (centistrokes):

Liquid Clear colorless Pungent acrid 0.8 1.16 9.66 Not Determined 230 110 -50 -46 26 Not Determined 35 Not Determined Soluble Not Determined Soluble Not Determined Not Determined

Not Determined

HYDROCHLORIC ACID Page 3 of 7 Partition Coefficient/n-Octanol/Wa Molecular Weight (g/mole): Not Determined 36.5

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### 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

Incompatibility (Materials to Avoid) Strong alkalis.

Hazardous Decomposition Products Flammable hydrogen gas. Chlorine. Hydrogen sulfide.

Additional Guidelines Not Applicable

### 11. TOXICOLOGICAL INFORMATION

**Principle Route of Exposure** Eye or skin contact, inhalation.

Inhalation Causes severe respiratory irritation.

Skin Contact May cause skin burns.

Eye Contact May cause eye burns.

Ingestion Causes burns of the mouth, throat and stomach.

Aggravated Medical Conditions Skin disorders.

Chronic Effects/Carcinogenicity Prolonged, excessive exposure may cause erosion of the teeth.

Other Information None known.

Toxicity Tests

**Oral Toxicity:** 

Not determined

**Dermal Toxicity:** 

Not determined

HYDROCHLORIC ACID Page 4 of 7  

 Inhalation Toxicity:
 LC50: 3124 ppm/1 hr. (Rat)

 Primary Irritation Effect:
 Not determined

 Carcinogenicity Not determined
 Not determined

 Genotoxicity:
 Not determined

 Reproductive/Developmental Toxicity:
 Not determined

## 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not Determined

Ecotoxicological Information Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

Other Information Not applicable

## 13. DISPOSAL CONSIDERATIONS

#### **Disposal Method**

Disposal should be made in accordance with federal, state and local regulations.

#### **Contaminated Packaging**

Follow all applicable national or local regulations.

## 14. TRANSPORT INFORMATION

## Land Transportation

DOT

HYDROCHLORIC ACID · Page 5 of 7 Hydrochloric Acid Solution, 8, UN1789,...

**Canadian TDG** 

Hydrochloric Acid Solution, 8, (9.2), UN1789, II

### ADR

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UN1789, Hydrochloric Acid Solution, 8, II

#### **Air Transportation**

ICAO/IATA

Hydrochloric Acid Solution, 8, UN1789, II

#### Sea Transportation

IMDG

Hydrochloric Acid Solution, 8, UN1789, II EMS 8-03

#### **Other Shipping Information**

Labels:

Corrosive

## 15. REGULATORY INFORMATION

#### **US Regulations**

US TSCA Inventory All components listed on inventory.

EPA SARA Title III Extremely Hazardous Substances Not applicable

#### EPA SARA (311,312) Hazard Class Acute Health Hazard

#### EPA SARA (313) Chemicals

This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

EPA CERCLA/Superfund Reportable Spill Quantity For This Product

HYDROCHLORIC ACID · Page 6 of 7

EPA Reportable Spill Quantity is 1592 allons based on Hydrochloric acid (CAS: 764). (-0).

#### **EPA RCRA Hazardous Waste Classification**

If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Corrosivity

California Proposition 65 All components listed do not apply to the California Proposition 65 Regulation.

MA Right-to-Know Law One or more components listed.

NJ Right-to-Know Law One or more components listed.

PA Right-to-Know Law One or more components listed.

## **Canadian Regulations**

Canadian DSL Inventory All components listed on inventory.

#### WHMIS Hazard Class

E Corrosive Material

## 16. OTHER INFORMATION

The following sections have been revised since the last issue of this MSDS Not applicable

#### **Additional Information**

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Product Stewardship at 1-580-251-4335.

#### **Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

#### \*\*\*END OF MSDS\*\*\*

HYDROCHLORIC ACID -Page 7 of 7

## HALLIBURTON

## **MATERIAL SAFETY DATA SHEET**

### SODIUM BICARBONATE

Revision Date:

## **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

06/28/2001

Product Trade Name: Synonyms: Chemical Family: Application: SODIUM BICARBONATE None Carbonate Buffer

Manufacturer/Supplier Halliburton Energy Services P.O. Box 1431 Duncan, Oklahoma 73536-0431

Emergency Telephone: (800) 666-9260 or (713) 676-3000

Product Stewardship Telephone: 1-580-251-4335

2. COMPOSITION/INFORMATION ON INGREDIENTS					
Substance_	<u>Weight</u> Percent (%	ACGIH TLV-TWA	OSHA PEL-TWA		
Sodium bicarbonate	60 - 100%	10 mg/m3	15 mg/m3		

## 3. HAZARDS IDENTIFICATION

#### Hazard Overview

May cause eye, skin, and respiratory irritation.

## 4. FIRST AID MEASURES

#### Inhalation

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes

SODIUM BICARBONATE Page 1 of 7

difficult.

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#### Skin

Wash with soap and water. Get medical attention if irritation persists.

#### Eyes

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

#### Ingestion

Under normal conditions, first aid procedures are not required.

#### Notes to Physician Not Applicable

## 5. FIRE FIGHTING MEASURES

Flash Point/Range (F):	Not Determined
Flash Point/Range (C):	Not Determined
Flash Point Method:	Not Determined
Autoignition Temperature (F):	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (%):	Not Determined
Flammability Limits in Air - Upper (%):	Not Determined

Fire Extinguishing Media All standard firefighting media.

Special Exposure Hazards Not applicable.

**Special Protective Equipment for Fire-Fighters** Not applicable.

NFPA Ratings:

Health 0, Flammability 0, Reactivity 0

**HMIS Ratings:** 

Flammability 0, Reactivity 0, Health 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures** 

Use appropriate protective equipment. Avoid creating and breathing dust.

## Environmental Precautionary Measures

Prevent from entering sewers, waterways or low areas.

## Procedure for Cleaning/Absorption Scoop up and remove.

## 7. HANDLING AND STORAGE

Handling Precautions

SODIUM BICARBONATE Page 2 of 7 Avoid creating or inhaling dust.

#### **Storage Information**

Store away from acids. Store in a dry location.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION** 8.

#### **Engineering Controls**

A well ventilated area to control dust levels. Local exhaust ventilation should be used in areas without good cross ventilation.

#### **Respiratory Protection**

Not normally needed. But if significant exposures are possible then the following respirator is recommended. Pust/mist respirator. (95%)

#### **Hand Protection** Normal work gloves.

#### **Skin Protection**

Normal work coveralls.

#### **Eye Protection**

Wear safety glasses or goggles to protect against exposure.

#### **Other Precautions** None known.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Color: Odor: pH: Specific Gravity @ 20 C (Water=1): Density @ 20 C (lbs./gallon): Bulk Density @ 20 C (lbs/ft3): Boiling Point/Range (F): **Boiling Point/Range (C):** Freezing Point/Range (F): Freezing Point/Range (C): Vapor Pressure @ 20 C (mmHg): Vapor Density (Air=1): **Percent Volatiles:** Evaporation Rate (Butyl Acetate=1); Solubility in Water (g/100ml): Solubility in Solvents (g/100ml): Solubility in Sea Water (g/100ml): VOCs (lbs./gallon): Viscosity, Dynamic @ 20 C (centipoise): Viscosity, Kinematic @ 20 C (centistrokes): Partition Coefficient/n-Octanol/Water: Molecular Weight (g/mole):

Solid White Odorless 8 1.87 Not Determined 41.2 Not Determined Soluble Not Determined Soluble Not Determined Not Determined

Not Determined Not Determined Not Determined

> SODIUM BICARBONATE Page 3 of 7

## 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

**Incompatibility (Materials to Avoid)** Strong acids.

Hazardous Decomposition Products Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

#### 11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure Eye or skin contact, inhalation.

Inhalation May cause mild respiratory irritation.

Skin Contact May cause mild skin irritation.

Eye Contact May cause eye irritation.

Ingestion None known

Aggravated Medical Conditions None known.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 1% are chronic health hazards.

Other Information None known.

**Toxicity Tests** 

**Oral Toxicity:** 

**Dermal Toxicity:** 

Inhalation Toxicity:

LD50: 4220 mg/kg (Rat)

Not determined

Not determined

SODIUM BICARBONATE Page 4 of 7

#### Primary Irritation Effect:

Not determined

Carcinogenicity Not determined

Genotoxicity:

Not determined

Reproductive/Developmental Toxicity:

Not determined

### **12. ECOLOGICAL INFORMATION**

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Slowly biodegradable

Bio-accumulation Not Determined

Ecotoxicological Information Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

Other Information Not applicable

## **13. DISPOSAL CONSIDERATIONS**

**Disposal Method** 

Bury in a licensed landfill according to federal, state, and local regulations.

Contaminated Packaging

Follow all applicable national or local regulations.

## **14. TRANSPORT INFORMATION**

#### Land Transportation

DOT

Not restricted

SODIUM BICARBONATE Page 5 of 7

Canadian TDG

Not restricted

ADR

Not restricted

**Air Transportation** 

ICAO/IATA

Not restricted

Sea Transportation

IMDG

Not restricted

Other Shipping Information

Labels:

None

## **15. REGULATORY INFORMATION**

## **US Regulations**

US TSCA Inventory All components listed on inventory.

EPA SARA Title III Extremely Hazardous Substances Not applicable

EPA SARA (311,312) Hazard Class None

EPA SARA (313) Chemicals This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

EPA CERCLA/Superfund Reportable Spill Quantity For This Product Not applicable.

EPA RCRA Hazardous Waste Classification If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

California Proposition 65 All components listed do not apply to the California Proposition 65 Regulation.

MA Right-to-Know Law

SODIUM BICARBONATE Page 6 of 7

Does not apply.

NJ Right-to-Know Law Does not apply.

PA Right-to-Know Law Does not apply.

## **Canadian Regulations**

Canadian DSL Inventory All components listed on inventory.

#### WHMIS Hazard Class Non-Controlled

## **16. OTHER INFORMATION**

## The following sections have been revised since the last issue of this MSDS Not applicable

#### Additional Information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Product Stewardship at 1-580-251-4335.

#### **Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

#### \*\*\*END OF MSDS\*\*\*

SODIUM BICARBONATE Page 7 of 7

## HALLIBURTON

## MATERIAL SAFETY DATA SHEET

## **XYLENE BOTTOMS**

Revision Date:

06/13/2001

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: Synonyms: Chemical Family: Application: XYLENE BOTTOMS None Aromatic hydrocarbon Solvent

Manufacturer/Supplier Halliburton Energy Services P.O. Box 1431 Duncan, Oklahoma 73536-0431

Emergency Telephone: (800) 666-9260 or (713) 676-3000

#### Prepared By Product Stewardship

Telephone: 1-580-251-4335

2. COMPOSITION/II	NFORMATION	ON INGREDIENTS	
Substance_	<u>Weight</u> Percent (%)	ACGIH TLV-TWA	OSHA PEL-TWA
Xylene 1330-20-7	60 - 100%	100 ppm	100 ppm
Toluene 108-88-3	1 - 5%	50 ppm	200 ppm
Benzene 71-43-2	1 - 5%	0.5 ppm	1 ppm

## 3. HAZARDS IDENTIFICATION

#### **Hazard Overview**

May cause eye and skin irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. May be absorbed through the skin. Repeated overexposure may cause liver and kidney effects. Potential carcinogen. Combustible.

XYLENE BOTTOMS • Page 1 of 8

## 4. FIRST AID MEASURES

#### Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

#### Skin

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

#### Eyes

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Ingestion

Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

#### Notes to Physician Not Applicable

Not Applicable

### 5. FIRE FIGHTING MEASURES

Flash Point/Range (F):
Flash Point/Range (C):
Flash Point Method:
Autoignition Temperature (F):
Autoignition Temperature (C):
Flammability Limits in Air - Lower (%):
Flammability Limits in Air - Upper (%):

111 43 Not Determined Not Determined Not Determined Not Determined Not Determined

**Fire Extinguishing Media** Carbon Dioxide, Dry Chemicals, Foam.

#### Special Exposure Hazards

May be ignited by heat, sparks or flames. Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Avoid spraying water directly into storage containers due to danger of boilover. Decomposition in fire may produce toxic gases. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations.

#### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

HMIS Ratings:	Flammability 3, Reactivity 0, Health 3
NFPA Ratings:	Health 3, Flammability 3, Reactivity 0

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal Precautionary Measures**

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

**Environmental Precautionary Measures** 

XYLENE BOTTOMS Page 2 of 8

#### Prevent from entering sewers, water s or low areas.

#### **Procedure for Cleaning/Absorption**

Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. Scoop up and remove.

## 7. HANDLING AND STORAGE

#### **Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

#### **Storage Information**

Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering Controls**

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

#### **Respiratory Protection**

Organic vapor respirator.

Hand Protection Impervious rubber gloves.

## Skin Protection

Rubber apron.

#### **Eye Protection**

Chemical goggles; also wear a face shield if splashing hazard exists.

#### **Other Precautions**

Eyewash fountains and safety showers must be easily accessible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Color: Odor: pH: Specific Gravity @ 20 C (Water=1): Density @ 20 C (lbs./gallon): Bulk Density @ 20 C (lbs/ft3): Boiling Point/Range (F): **Boiling Point/Range (C):** Freezing Point/Range (F): Freezing Point/Range (C): Vapor Pressure @ 20 C (mmHg): Vapor Density (Air=1): **Percent Volatiles:** Evaporation Rate (Butyl Acetate=1): Solubility in Water (g/100ml):

Liquid Clear colorless Aromatic hydrocarbon Not Determined 0.89 7.41 Not Determined 100 Not Determined Insoluble

XYLENE BOTTOMS - Page 3 of 8

 Solubility in Solvents (g/100ml): Solubility in Sea Water (g/100ml): VOCs (lbs./gallon): Viscosity, Dynamic @ 20 C (centipoise): Viscosity, Kinematic @ 20 C (centistrokes): Partition Coefficient/n-Octanol/Water: Molecular Weight (g/mole): Not Determined Insoluble Not Determined

Not Determined

Not Determined Not Determined Not Determined

## **10. STABILITY AND REACTIVITY**

Stability Data:

Stable

Hazardous Polymerization: Will Not Occur

**Conditions to Avoid** Keep away from heat, sparks and flame.

Incompatibility (Materials to Avoid) Strong oxidizers.

#### **Hazardous Decomposition Products**

Toxic fumes. Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

### 11. TOXICOLOGICAL INFORMATION

#### Principle Route of Exposure

Eye or skin contact, inhalation.

#### Inhalation

May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

#### **Skin Contact**

May cause skin defatting with prolonged exposure. May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

#### Eye Contact

Causes severe eye irritation May cause eye burns.

#### Ingestion

Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, nausea, and diarrhea. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions. Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. May cause pulmonary edema.

#### **Aggravated Medical Conditions**

Skin disorders. Eye ailments. Lung disorders.

XYLENE BOTTOMS Page 4 of 8

#### Chronic Effects/Carcinogenicity

Prolonged or repeated exposure may cause eye, blood, lung, liver, kidney, heart, central nervous system and spleen damage. Contains benzene, a known carcinogen, over-exposures may result in bone marrow depression possibly leading to leukemia.

Other Information None known.

**Toxicity Tests** 

a: ) •

Oral Toxicity: Not determined

Dermal Toxicity:

Inhalation Toxicity:

Primary Irritation Effect:

Carcinogenicity Not determined

Genotoxicity:

Not determined

Not determined

Not determined

Not determined

Reproductive/Developmental Toxicity:

Not determined

## 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Slowly biodegradable

Bio-accumulation Not Determined

Ecotoxicological Information Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

Other Information Not applicable

## 13. DISPOSAL CONSIDERATIONS

XYLENE BOTTOMS Page 5 of 8

#### **Disposal Method**

Disposal should be made in accordance with federal, state and local regulations.

#### **Contaminated Packaging**

Empty container completely. Transport with all closures in place. Return for reuse or disposal in a sanitary landfill according to national or local regulations.

## **14. TRANSPORT INFORMATION**

#### Land Transportation

DOT

Petroleum Distillates, N.O.S., UN1268, III, (43.9 C)

**Canadian TDG** 

Petroleum Distillates, N.O.S., UN1268, III

### ADR

UN1268, Petroleum Distillates, N.O.S., III

#### **Air Transportation**

ICAO/IATA

Petroleum Distillates, N.O.S., UN1268, III

#### Sea Transportation

IMDG

Petroleum Distillates, N.O.S., UN1268, III, (43.9 C) EMS 3-07

### **Other Shipping Information**

Labels: Combustible

## **15. REGULATORY INFORMATION**

### **US Regulations**

US TSCA Inventory

XYLENE BOTTOMS Page 6 of 8 - All-components listed on inventory.

EPA SARA Title III Extremely Hazardous Substances Not applicable

EPA SARA (311,312) Hazard Class Acute Health Hazard Chronic Health Hazard Fire Hazard

EPA SARA (313) Chemicals This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372: Benzene//71-43-2 Toluene//108-88-3 Xytene//1330-20-7

**EPA CERCLA/Superfund Reportable Spill Quantity For This Product** EPA Reportable Spill Quantity is 19 Gallons based on Xylene (CAS: 1330-20-7).

#### **EPA RCRA Hazardous Waste Classification**

If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Ignitability

California Proposition 65 The California Proposition 65 regulations apply to this product.

MA Right-to-Know Law One or more components listed.

NJ Right-to-Know Law One or more components listed.

PA Right-to-Know Law One or more components listed.

**Canadian Regulations** 

Canadian DSL Inventory All components listed on inventory.

## WHMIS Hazard Class

B3 Combustible Liquids D1A Very Toxic Materials D1B Toxic Materials

## 16. OTHER INFORMATION

XYLENE BOTTOMS Page 7 of 8 Size solutions of this MSDS with applicable

#### Additional Information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Product Stewardship at 1-580-251-4335.

#### **Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

\*\*\*END OF MSDS\*\*\*

XYLENE BOTTOMS · Page 8 of 8

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

3

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-138 Revised June 10, 2003

11121314

VED

Hobbs OCD

1920215

су

Submit Original Plus 1 Copy to Appropriate District Office

## **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: Non-Exempt: X. □Verbal Approval Received: Yes No X	4. Generator Navajo Refinery		
	5. Originating Site Artesia Facility		
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J Waste Services		
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico		
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM			
9. <u>Circle One</u> :	•		
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied b material is not-hazardous and the Generator's certification of origin. No waste approved</li> </ul>	by necessary chemical analysis to PROVE the		
All transporters must certify the wastes delivered are only those consigned for tra	ansport.		
BRIEF DESCRIPTION OF MATERIAL:	123456789		

RE: 05-03-04A

TK413 kerosene tank bottoms.

This is tank scale and sludge that was left in the tank after it was drained.

Enclosed is non-exempt certificate of waste status and MSDS.

This approval is for one year. This material has been approved in the past.

Estimated Volume 1000YDS Known Volume	to be entered by the operator at the end of the haul)	
Estimated volume 10001 DB Milowii volume	to be entered by the operator at the end of the natio	

SIGNATURE 🗸 TITLE: <u>Rep</u> DATE: <u>05-03-04</u> Waste Management Facility Authorized Agent

26272829

TYPE OR PRINT NAME: <u>Kim Flowers</u> TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

(This space for State Use)		
APPROVED BY:	TITLE:	DATE: DATE: 5/12 Lo 4
	9	



## **REFINING COMPANY, L.P.**

FAX (505) 746-5283 DIV. ORDERS (505) 746-5481 TRUCKING (505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159 ARTESIA, NEW MEXICO 88211-0159 TELEPHONE (505) 748-3311 FAX (505) 748-5419 ACCOUNTING (505) 746-5451 EXEC/MKTG (505) 746-5421 ENGINEERING (505) 746-5480 PIPELINE

April 30, 2004

Ken Marsh	Post-It* Fax Note 7671	Date 4-30-04 pages 5.
CRI	To Ker Marsh	From thanks Plymall
P.O. Box 388	Co./Dept. C.R.L	Co. Laugico K. Co.
Hobbs, NM 88214	Phone #	Phone #
	Fat \$ 505-393-3615	- Fax #
Ken.		

2011,

1

I would like to profile our Kerosene Scale/tank bottoms from TK 413 at our Artesia Refinery into your facility. We have profiled kerosene into your facility before. By process knowledge this material is NON HAZARDOUS. I am including a certificate of waste and an MSDS for this material.

This material would be transported by D & J waste haulers in 20 yard roll off bins.

Sincere Plymale Charlie

Charlie Plymale Sr. Flyvironmental Specialist

### CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: <u>Navaio Refining Company</u>
ADDRESS: 501 East Main
GENERATING SITE: <u>Navajo Refining Company</u>
COUNTY:Eddy/Lea
STATE:
TYPE OF WASTE: <u>Tk 413 kerosene tank bottoms</u>
ESTIMATED VOLUME: 1000 yards
GENERATING PROCESS:
REMARKS: This material has been approved in the past
NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: D&J Waste Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or proved with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT:	INK
	SIGNATURE
NAME:	Charlie Plymalc
	PRINTED
ADDRESS:	501 EAST MAIN
	ARTESIA.NM 88210
DATE:	4/30/04
	<i>Y</i> - <i>Y</i>



ŝ

NAVAJO REFINING COMPANY P. O. BOX 159 ARTESIA, NM 88211-0159 (505) 748-3311, (505) 365-8364, (505) 365-8365 (24 Hours)

## MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE NUMBERS:

CHEMTREC: 1-800-424-9300 (for fire, spill and emergency response information) NEW MEXICO POISON INFORMATION CENTER: 1-800-432-6866 (for poisoning) TEXAS (EL PASO) POISON INFORMATION CENTER: (915) 533-1244 (for poisoning) ARIZONA POISON INFORMATION CENTER: 1-800-362-0101 or (602) 253-3334 (for poisoning)

## **KEROSENE**

SECTION	1 - PRODUCT IDE	TIFICAT	ION		
RODUCT NAME: KEROSENE C. ORMULA: C9H20 to C16H34 C YNONYMS: Fuel oil No.1, Coal oil,	A	ydrocarl 11phatic	C, Aromat:		0 2 0
	~			NPPA	704 SYNBOL
SECTIO	N Z - HAZARDOUS I	NGREDIEN	/TS		
<u>DOUS COMPONENTS</u> KEROSENE (containing) Naphthalene HER INGREDIENT INFORMATION:	<u>CAS NO.</u> 8008-20-6 91-20-3	VOL8 100 1-5		PEL ( 500 ppm 10 ppm	<u>OSEA)</u>
DILING POINT: 300-575°F APOR PRESSURE: @100°F 5 mm Hg APOR DENSITY (AIR=1): 4.5 DLUBILITY IN WATER: Insoluble	EVAPORATI	GRAVITY E BY VOI ON RATE:	(WATER=1) LUME: N.A. No data	A availabl	,e
DOR THRESHOLD: 1.0 ppm PPEARANCE AND ODOR: Clear to yel SECTION 4 -	low liquid with c		·		smell
LASSIFICATION: CLASS II, COMBUSTI LASH POINT: 110-165°P°(TOC) LAMMABLE LIMITS: LEC==00.78% UEL KTINGUISHING MEDIA: Foam, dry cho PECIAL FIRE FIGHTING PROCEDURES: to keep-fire=exposed contains NUSUAL FIRE AND EXPLOSION HAZARDS fires. Vapors are heavier th Extinguish only if flow can i		oxide, H rom fire am for H ius of 1	Halon area if spill cont 1500 feet	possible. rol. for uncon	trolled
IRE = 2 (Moderate)					
GF 1 DAM	5 DDPD2050. 11/1	1 /92			ITR NO. 6

問 003/ 000

DATE PREPARED: 11/11/93 TOOR NO"

- -

KEROSENE

#### SECTION 5 - REACTIVITY DATA

TABILITY: Stable AZARDOUS POLYMERIZATION: Will not occur ONDITIONS TO AVOID/INCOMPATABILITY: Strong Oxidizers AZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

FPA REACTIVITY = 0 (minimal)

SECTION 6 - HEALTH HAZARD DATA

DUTES OF ENTRY: Inhalation, ingestion, skin contact.

IALTH HAZARDS: Chronic toxicity, possible cancer, irritation to eyes, skin and mucous membranes, gulmonary edema, bronchial pneumonia, asphyxiation, liver and kidney damage, anemia or myocardial damage.

ARCINOGENICITY: Kerosene is not listed by NTP or IARC.

IGNS AND SYMPTOMS OF EXPOSURE: Irritation of eyes, skin and mucous membranes, dizziness, Madaches, respiratory arrest, coughing, irregular heartbeat, mental confusion, vomiting, turred vision, flushing of face, slurred speech, difficulty in swallowing, weakness, pain 1 limbs, come and convulsions. Also, insomnia, toxicity, psychosis, tremors, exaggerated andon reflexes

ERGENCY AND FIRST AID PROCEDURES:

• • • • • • • •

INGESTION: DO NOT induce vomiting. Immediately seek medical attention. Give water to dilute, if conscious.

INHALATION: Maintain respirations, assist with artificial respiration if needed and give oxygen if available and trained to do so. Seek medical attention. If liquid is in lungs (aspirated) seek medical care.

EYES: Flush eyes with water for at least 15 minutes. seek medical attention.

SKIN: Remove kerosene soaked clothing. Wash skin with soap and water. If irritation persists seek medical attention.

PA REALTH = 0 (minimal)

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

- EPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all sources of ignition. Contain spill. Use water fog to suppress vapor cloud. Use SCBA to avoid breathing vapors. Absorb liquid with sand or clay.
- STE DISPOSAL: Dispose in accordance with RCRA regulations. Do not put in sewers or any · . water course. المحادث المعادية المحادث العاد المحادث العاد المحادث العاد المحادث العاد المحادث العاد المحادث العاد المحادث ا المحادث المحادثة المحادث العادة المحادث العادة المحادث العادة المحادثة المحادث العادة المحادث العادة المحادث ال

ECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: All equipment and storage containers should be properly grounded. This material is subject to OSHA and DOT regulations Portable metal containers should be bonded to the storage container before

transferring liquid. containers unless properly cleaned and purged using safe work procedures. ت مند.

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DATE PREPARED: 11/11/93

ISSUE NO. 6

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KEROSENE

SECTION 8 - ENVIRONMENTAL AND SPECIAL PROTECTION INFORMATION

SPIRATORY PROTECTION: Use NIOSH/MSHA approved respiratory protection in areas exceeding exposure limits, the type to be determined by the degree of exposure.

VENTILATION: Use in well ventilated area. Mechanical exhaust should be explosion proof.

- EYE/SKIN PROTECTION: Rubber gloves, face shields, goggles or safety glasses with side shields, coveralls.
- WORK/HYGIENIC PRACTICES: Remove contaminated clothing as soon as possible. Always wash after handling hazardous chemicals.

NOTICE: This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 27 FOR ADDITIONAL EMERGENCY INFORMATION.

This information is believed to be accurate and as reliable as information available to us. We make no warranty or guarantee as to its accuracy and assume no liability from its use. Users should determine the suitability of the information for their particular purposes.

N.

DATE PREPARED: 11/11/93

ISSUE NO. 6

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico RECEIVED

Energy Minerals and Natural Resources

Form C-138 Revised June 10, 2003

Oil Conservation DivisionMAY 1 0 20041220 South St. Francis Dr.<br/>Santa Fe, NM 87505OIL CONSERVATION<br/>DIVISION

Submit Original Plus 1 Copy to Appropriate District Office

## **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: Non-Exempt: X	4. Generator Quail Tools			
□Verbal Approval Received: Yes □ No X	5. Originating Site Odessa Facility			
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI			
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State Texas			
7. Location of Material (Street Address or ULSTR) 400 Alabama, Odessa, TX				
9. Circle One:	I			

- A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
- B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved

All transporters must certify the wastes delivered are only those consigned for transport.

#### BRIEF DESCRIPTION OF MATERIAL:

RE: 05-03-04.

Sump Sludge generated from steam cleaning oilfield tools.

Enclosed is non-exempt certificate of waste status, Analytical data, and Chain-of-Custody.

Reactive Sulfides retested because 3 previous analyticals from 11-26-03 <5.00, 02-01-01 <100, 10-02-01 <

This approval is for one year.

Estimated Volume 60YDS/annually. Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE 4 TITLE: Rep DATE: 05-03-04 Waste Management Facility Authorized Agent

21282930

су

 TYPE OR PRINT NAME: Kim Flowers
 TELEPHONE NO. (505)393-1079

### E-MAIL ADDRESS david@crihobbs.com

(This space for State Use)		
APPROVED BY:	TITLE:	DATE:
APPROVED BY: Monty 7 2/2	TITLE: Environment 6 cologis +	DATE: <u>5/12/04</u>

Apr 30 04 03143p

## CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR Quail Tools

ADDRESS 400 W. Alabama, Odessa, TX

GENERATING SITE 400 W. Alabama, Odessa, TX

COUNTY Ector STATE TX

TYPE OF WASTE wash bay\_sludge\_\_\_\_\_

ESTIMATED VOLUME \_\_\_\_\_\_\_

GENERATING PROCESS this sludge is generated from

washing down hole oil tools.

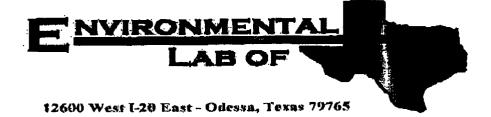
REMARKS

INMICED FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT BO	Lucano
SIGN	ATURE
NAME BO PRIN	122(ALHO
ADDRESS 9 5	Industria Loop
Mid	Mane, 7079701
DATE 4	30/04



# **Analytical Report**

## Prepared for:

Bo Vizcaino Llano Permian Environmental (Midland) # 9 Industrial Loop Midland, TX. 79701

> Project: Quail Tool Project Number: QUT.001.WD Location: Odessa, TX

Lab Order Number: 4D23009

Report Date: 04/26/04

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Apr. 29 2004 03:39PM P3

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Llano Permian Environmental (Midland)	Project:	•	Fax: (432) 522-2180
# 9 Industrial Loop	Project Number:		Reported:
Midland TX., 79701	Project Manager:		04/26/04 15:28
AN	ALYTICAL REPORT	FOR SAMPLES	

#### ANALYTICAL REPORT FOR SAMPLE

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Water Treatment Sludge	4D23009-01	Studge	04/23/04 13:30	04/23/04 13:45

12600 Wost 1-20 Rast - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Llano Permian Environmental (Midland)	Project: Quail Tool	Fax: (432) 522-2180
# 9 Industrial Loop	Project Number: QUT.001.WD	Reported:
Midland TX., 79701	Pruject Manager: Bo Vizcaino	04/26/04 15:28
General C	hemistry Parameters by EPA / Standard Me	ethods

Analyte	Rosult	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Water Treatment Sludge (4)	023009-01) Studge								
Reactive Sulfide	21.0	12.5	ing/kg	2.5	ED42610	01/26/04	04/26/04	SW846 9030B	

Environmental Lab of Texas

A Quality Assurance Review The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lah of Texas.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Page 2 of 4

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Llano Permian Environmental (Midland)		Pr	oject: Qi	uail Tool					Fax: (432)	522-218
# 9 Industrial Loop		Project Nu	nber: Q	UT.001.WD	)				Repo	rted:
Midland TX., 79701		Project Mar	ager: Be	) Vizcaino					04/26/0	4 15:28
General Chemis	try Para	meters by	EPA /	Standar	rd Meth	nods - Q	Quality (	Contro		
		Environm	ental I	Lab of T	CXAS					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42610 - 9030B SW846										
Blank (ED42610-BLK1)				Prepared	& Analyza	:d: 04/26/	04			
Reactivo Sulfido	ND	5.00	mg/kg			•••	· · · · · · · · · · · · · · · · · · ·			
LCS (ED42610-BS1)				Prepared a	& Analyze	ed: 04/26/	04			
Reactive Sulfide	20.5		mg/kg	22.2		92.3	50-150			
LCS Dup (ED42610-BSD1)				Prepared	& Analyze	:d: 04/26/	04			
Reactive Sulfido	20.9		mg/kg	22.2		94.1	50-150	1.93	20	
Calibration Chock (ED42610-CCV1)				Prepared	& Analyze	:d: 04/26/	04			
Reactive Sulfide	696		mg/kg	680		102	80-120			
Dunlicate (ED42610-DUP1)	Sa	urce: 4D2300	9-01	Prepared	& Analyze	A. 04/26/	04			

 Duplicate (ED42610-DUP1)
 Source: 4D23009-01
 Prepared & Analyzed: 04/26/04

 Reactive Sulfide
 21.2
 12.5
 mg/kg
 21.0
 0.948
 20

Environmental Lab of Texas

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Quality Assurance Review

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory... This analytical report must be reproduced in its entirety, with written approval of Environmental Lah of Texas.

12600 West 1-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

FAX NO. :915522180

Apr. 29 2004 03:39PM P6

Liano Permian Environmental (Midland)	Project: Quail Tool	Fax: (432) 522-2180
# 9 Industrial Loop	Project Number: QU'I.001.WD	Reported:
Midland TX., 79701	Project Manager: Bo Vizcaino	04/26/04 15:28

#### Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory.. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

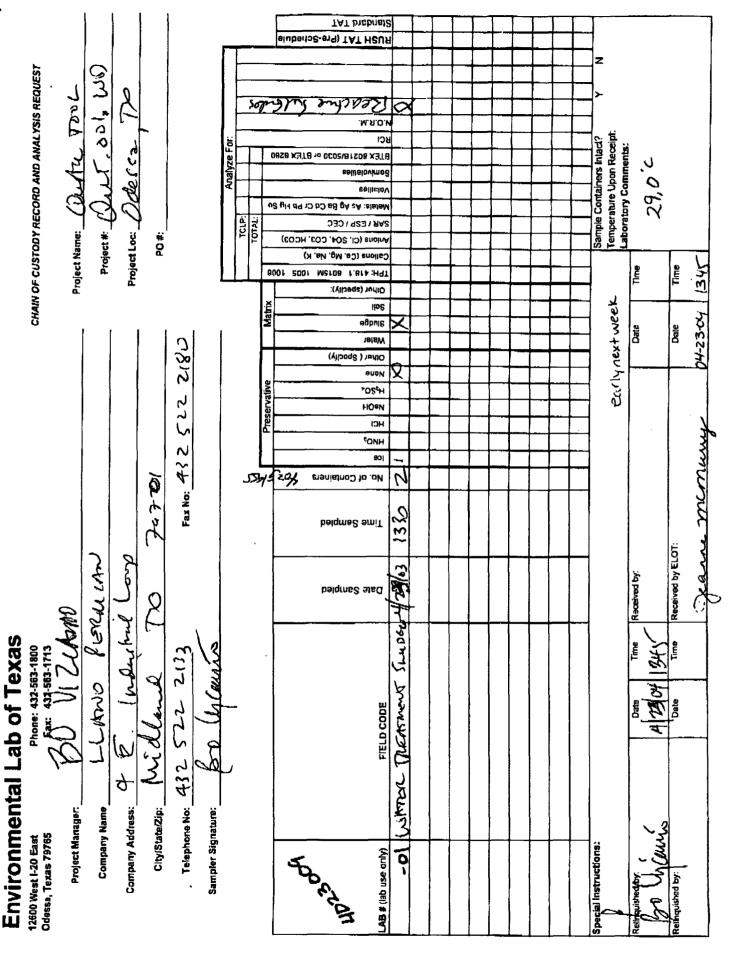
Page 4 of 4

'FROM : LLAND PERMIAN ENVIRONMENTAL

4

FAX NO. :915522180

Apr. 29 2004 03:40PM P7



District 1 1625 N. French Dr., Hobbs, NN 8240 ECEE In the of New Mexico District II 1301 W. Grand Avenue, Artesia, NM 88210	·
District IIIOil Conservation Division1000 Rio Brazos Road, Aztec, NM 87410MAR 2 6 2004 1220 South St. Francis Dr.District IV1220 S. St. Francis Dr., Santa Fe, NM 87505Oil CorrSanta Fe, NM 87505	Submit Original Plus 1 Copy to Appropriate District Office
Conscivation Division 1220 STaFURASPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: X	4. Generator Weatherford
Verbal Approval Received: Yes No X	5. Originating Site Hobbs, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2621 W. Marland, Hobbs, NM	
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by ne material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transp	ort.
BRIEF DESCRIPTION OF MATERIAL:	c 272820 -
RE: 03-22-04	2425262728293033
Sump Sludge.	
Washing of down hole oilfield pumps and equipment. Enclosed is non-exempt certificate of waste status, Analytical data, and Chain-of-Custody	=  end of the haul
This approval is for one year.	111513141818
Estimated Volume <u>300 Bbls/annually</u> , Known Volume (to be entered by the operator at th	e end of the haul)cy
SIGNATURE <u>Him House</u> TITLE: <u>Rep</u> DATE: Waste Management Facility Authorized Agent	<u>03-22-04</u>
TYPE OR PRINT NAME: Kim Flowers       TELEPHONE NO. (505)393-1079	2904 -
E-MAIL ADDRESS david@crihobbs.com	0 X 2
(This space for State Use)	
APPROVED BR DE phison TITLE: ENVIRO EN	6R DATE: 3.23.04
APPROVED BY: Martyn J Kg. TITLE: Environmen	LA Geologisz DATE: 3-29-04

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-7.

District I District I District II State of New Mexico District II State of New Mexico District II District III District IV District IV	Form C-138 Revised June 10, 2003 Submit Original Plus 1 Copy to Appropriate District Office
<b>REQUEST FOR APPROVAL TO ACCEP</b>	T SOLID WASTE
1. RCRA Exempt: Verbal Approval Received: Yes No X	<ol> <li>Generator Weatherford</li> <li>Originating Site Hobbs, NM</li> </ol>
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2621 W. Marland, Hobbs, NM	
<ul> <li>H. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> <li>All transporters must certify the wastes delivered are only those consigned for transporters</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>RE: 02-25-04A</li> <li>Sump Sludge.</li> <li>Washing of down hole oilfield pumps and equipment.</li> <li>Enclosed is non-exempt certificate of waste status, Analytical data, and Chain-of-Custody</li> </ul>	assified hazardous by listing or testing will be port. $ \begin{pmatrix}                                   $
This approval is for one year.	2 J3 J4 52 562
Estimated Volume <u>300 Bbls/annually</u> . Known Volume (to be entered by the operator at the second seco	he end of the haul) cy
SIGNATURE HOW HOW DATE: Waste Management Facility Authorized Agent TITLE: Rep DATE:	: <u>02-25-04</u>
TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079	
E-MAIL ADDRESS david@crihobbs.com	
(This space for State Use)	NGR DATE: 2.26.04

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## CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR <u>weatherford</u>
ADDRESS2621 w_Marland_, Hobbs, NM_88240
GENERATING SITE Hobbs Facility, 2621 W. Marland
COUNTY Lea STATE NM
TYPE OF WASTE <u>sump</u> sludge
ESTIMATED VOLUME 300Bbls.
GENERATING PROCESS Washing of downhole oilfield
pumps and equipment
REMARKS
NWOUD FAULLINY Controlled Recovery, Inc.
TRUCKING COMPANY_CRI
As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste

a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Agence Shalin
SIGNATURE
NAME James Sherlin PRINTED
PRINTED
ADDRESS 2621 W. Marland
Hobbs, NM 88240

DATE 2-25-04

FEB. 25. 2004 6:31AM

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CRI								ult is est	imated Fhold (lime	
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	( 388					s		vbcontre		
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			Assaigal Analytical Certificate	_	_		REVIS	, and the second second second second second second second second second second second second second second se	87 1.58	ANDARD
Client: CR	l			ſ	1	/ _	L			
Project: WA	ABH SUMP-WE	ATHERFOR	RD	C	111	$\mathcal{A}$	$\sqrt{\Lambda}$	(		
Order: 040	2014 CRIC	)1 R	oceipt: 02-02-04	William	P. Blava; Proside		Analylical Labo	relaries, ini	2	
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Sample: SU	MP 🗸			Collected: 01-2	9-04 16:00;0	0 By: L	P			
Matrix: SL	<u>UDGE</u>		······································				., <b>.</b>			
						Dilution	Detection		Prep 1	Run
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Factor	Limit	Code	Date	Date
0402014-01A		BW846 1010								
8FLASH-04-05	•-•						Bv:	RAC		
	WC.2004.313.2	1	Fisshpoint	>60.0	Deg C	1	Ву: 20	RAC	02-03-04	92-00-04
	WC.2004.313.2		······································	>60.0	Deg C	1	20		02-03-04	GR-0 <b>0</b> -04
0402014-01A		SW848 Soct.	7.3	······································	· Janaseren · · · · ·	1 	20 By:	RAC		
0402014-01A W0492	WC.2004.280.8		7.3 Cyanide, Reactive	ND	mg / Kg	1 1 1	20 By: 250		02-02-04	02-03-04
<b>0402014-01A</b> W0492 W0432		8W848 9est.	7.3 Cyanide, Reactive Guilide, Reactive	······································	· Janaseren · · · · ·		20 By: 250 500			02-03-04
0402014-01A W0492 W0432 D402014-01A	WC.2004.280.9 WC.2004.279.7	8W848 9oct.	7.3 Cyanide, Reactive Guilide, Reactive	ND ND	mg/Kg mg/Kg		20 By: 250 600 By:	NJL	02-02-04 02-02-04	02-03-04 02-03-04
0402014-01A W0432 W0432 D402014-01A DPH04001	WC.2004.280.9 WC.2004.279.7 WC.2004.278.1	SW846 Sect. 57-12-5 SW846-9045	7.3 Cyanide, Reactive Guilide, Reactive C pH	ND ND 7.5	mg/Kg mg/Kg		20 By: 250 500 By: 0.1		02-02-04 02-02-04 02-02-04	02-03-04 02-03-04 02-02-04
0402014-01A W0432 W0432 0402014-01A OPK04001 OPK04001	WC.2004.280.9 WC.2004.279.7	SW846 Soct. 57-12-5 SW846-90450	7.3 Cyanide, Reactive Guilido, Reactive C pH waste pH measured in water (	ND ND 7.5 2 21.5	mg/Kg mg/Kg		20 By: 230 600 By: 0.1 0	NJL NJL 	02-02-04 02-02-04	02-03-04 02-03-04 02-02-04
0402014-01A W0432 W0432 0402014-01A DPH04001 DPH04001 DPH04001	WC.2004.280.9 WC.2004.279.7 WC.2004.278.1 WC.2004.276.1	SW846 90450 SW846 90450 SW846 1311/	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water ( 182608 Purgeable VOCs by G	ND ND 7.5 2 21.5 0C/MB TCLP	mg / Kg mg / Kg units deg C		20 By: 250 500 By: 0.1 0 By:	NJL NJL 1 CWJ	02-02-04 02-02-04 02-02-04 02-02-04	02-03-04 02-03-04 02-02-04 02-02-04
0402014-01A W0432 W0432 0402014-01A 0PH04001 0PH04001 0PH04001 0PH04001 0PH04001 0402014-01B X04184	WC.2004.280.9 WC.2004.279.7 WC.2004.276.1 WC.2004.276.1 XG.2004.424.19	SW846 Soct. 57-12-5 BW846-90454 SW846 1311/ 75-35-4	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water ( 82608 Purgeable VOCs by G 1,1 Dichloroethylene	ND ND 7.5 2 21.5 C/MB TCLP ND	mg / Kg mg / Kg units deg C	1 1 1	20 By: 250 600 By: 0.1 0 By: 0.001	NJL NJL 1 CWJ	02-02-04 02-02-04 02-02-04 02-02-04 02-16-04	02-03-04 02-03-04 02-02-04 02-02-04 02-02-04
0402014-01A W0432 W0432 0402014-01A OPH04001 OPH04001 OPH04001 DPH04001 DPH04001 X04184 X04184	WC.2004.280.9 WC.2004.279.7 WC.2004.276.1 WC.2004.276.1 XG.2004.424.19 XG.2004.424.18	SW846 Sect. 57-12-5 SW846-90454 SW846 1311/ 75-35-4 107-06-2	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water & 82608 Purgeable VOCa by Q 1,1 Dichlorosthylene 1,2 Dichlorosthane (EDC)	ND           ND           7.5           2           21.5           C/MS TCLP           ND           ND	mg / Kg mg / Kg units deg C mg / L mg / L	1 .1 .1 .1	20 By: 250 500 By: 0.1 0 By: 0.001 0.001	NJL NJL NJL NJL H R	02-02-04 02-02-04 02-02-04 02-02-04	02-03-04 02-03-04 02-02-94 02-02-04 03-15-04 03-15-04
0402014-01A W0432 0402014-01A OPH04001 OPH04001 DPH04001 D402014-01B X04184 X04184 X04184	WC.2004.280.9 WC.2004.279.7 WC.2004.276.1 WC.2004.276.1 XG.2004.424.19	SW846 Sect. 57-12-5 SW846-90450 SW846 1311/ 75-35-4 107-06-2 71-49-2	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water & 82608 Purgeable VOCa by Q 1,1 Dichloroethylene 1,2 Dichloroethane (EDC) Benzene	ND ND 7.5 2 21.5 C/M8 TCLP ND ND 0.001	mg / Kg mg / Kg units deg C mg / L mg / L mg / L	1 1 1	20 By: 250 600 By: 0.1 0 By: 0.001	NJL NJL 1 CWJ	02-02-04 02-02-04 02-02-04 02-02-04 02-16-04 03-15-04	02-03-04 02-03-04 02-02-04 02-02-04 03-15-04 03-15-04 03-15-04
0402014-01A W0432 0402014-01A OPH04001 OPH04001 DPH04001 D402014-01B X04184 X04184 X04184 X04184	WC.2004.280.8 WC.2004.278.1 WC.2004.276.1 WC.2004.276.1 XG.2004.424.18 XG.2004.424.18	SW846 Sect. 57-12-5 SW846-90454 SW846 1311/ 75-35-4 107-06-2	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water & 82608 Purgeable VOCa by Q 1,1 Dichlorosthylene 1,2 Dichlorosthane (EDC)	ND           ND           7.5           2           21.5           C/MS TCLP           ND           ND	mg / Kg mg / Kg units deg C mg / L mg / L	1 .1 .1 .1 .1 .1	20 By: 250 500 By: 0.1 0 By: 0.001 0.001 0.001	NJL NJL 1 CWJ H	02-02-04 02-02-04 02-02-04 02-02-04 02-16-04 03-16-04 03-18-04	02-03-04 02-03-04 02-02-04 02-02-04 03-15-04 03-15-04 03-15-04
0402014-01A W0432 W0432 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 M0402014-01B X04184 X04184 X04184 X04184 X04184	WC.2004.280.8 WC.2004.278.1 WC.2004.276.1 WC.2004.276.1 XG.3004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18	SW846 Sect. 57-12-5 SW846-90450 SW846-90450 75-35-4 107-08-2 7 (-43-2 66-23-5	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water & 8260B Purgeable VOCs by Q 1,1 Dichloroethylene 1,2 Dichloroethane (EDC) Benzene Carbon tetrachloride	ND ND 7.5 2 21.5 C/MB TCLP ND ND 0.001 ND	mg / Kg mg / Kg units deg C mg / L mg / L mg / L mg / L	1 .1 .1 .1 .1 .1	20 By: 250 500 By: 0.1 0 By: 0.001 0.001 0.001	NJL NJL 1 H H H H H H	02-02-04 02-02-04 02-02-04 02-02-04 03-14-04 03-15-04 03-18-04 03-15-04	02-03-04 02-03-04 02-02-04 02-02-04 03-15-04 03-15-04 03-15-04 03-15-04
0402014-01A W0432 W0432 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 X04184 X04184 X04184 X04194 X04194 X04194	WC.2004.280.9 WC.2004.270.7 WC.2004.270.1 WC.2004.276.1 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18	SW846 Sect. 57-12-5 BW846-9045 SW846 1311/ 75-35-4 107-08-2 71-43-2 66-23-5 108-90-7	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water & 82608 Purgeable VOCs by G 1,1 Dichloroethylene 1,2 Dichloroethane (EDC) Benzene Carbon tetrachloride Chlorobenzene	ND           7.5           2         21.5           C/MB TCLP           ND           0.001           ND           ND	mg / Kg mg / Kg units deg C mg / L mg / L mg / L mg / L mg / L	1 1 1 1 1 1 1 1 1	20 By: 250 500 By: 0.1 0.01 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005	NJL NJL 1 CWJ H H H H H	02-02-04 02-02-04 02-02-04 02-02-04 02-14-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04	02-03-04 02-03-04 02-02-04 02-02-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04
0402014-01A W0432 W0432 OPK04001 OPK04001 OPK04001 OPK04001 OPK04001 OPK04001 OPK04001 OPK04001 OPK04001 OPK04001 X04194 X04194 X04194 X04194 X04194 X04194 X04194	WC.2004.280.9 WC.2004.270.7 WC.2004.270.1 WC.2004.276.1 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18	SW846 Sect. 57-12-5 SW846-90455 SW846 1311/ 75-35-4 107-09-2 71-49-2 56-23-5 108-69-7 67-66-3 76-93-3 127-18-4	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water (c 82608 Purgeable VOCa by G 1,1 Dichloroethylene 1,2 Dichloroethane (EDC) Benzene Carbon tetrachleride Chlorobenzene Chlorobenzene Chloroform Mathyl ethyl ketone Tetrachloroethylene	ND ND 7.5 2 21.5 2 21.5 0C/MB TCLP ND 0.001 ND ND ND 0.021 0.018	mg / Kg mg / Kg units deg C mg / L mg / L	1 1 1 1 1 1 1 1 1	20 By: 280 600 By: 0.1 0.01 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.001	NJL NJL 1 WJ H H H H H H	02-02-04 02-02-04 02-02-04 02-02-04 02-14-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04	02-03-04 02-03-04 02-02-04 02-02-04 03-15-04 03-15-04 03-15-04 03-15-04 03-16-04 03-16-04
0402014-01A W0432 W0432 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 X04194 X04194 X04194 X04194 X04194 X04194 X04194 X04194 X04194 X04194	WC.2004.280.9 WC.2004.278.1 WC.2004.276.1 WC.2004.276.1 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18	SW846 Soct. 57-12-5 SW846-90450 SW846 1311/ 75-35-4 107-08-2 71-43-2 66-23-5 108-80-7 67-86-3 76-93-3 127-18-4 78-01-6	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water ( 82608 Purgeable VOCs by G 1,1 Dichloroethylene 1,2 Dichloroethane (EDC) Benzene Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroform Mathyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND 7.5 2 21.5 2 21.5 0C/MB TCLP ND 0.001 ND 0.001 ND 0.021 0.018 0.041	mg / Kg mg / Kg mg / Kg deg C mg / L mg / L		20 By: 250 500 By: 0.1 0.01 0.001 0.	NJL NJL 1 CWJ H H H H H H H H H	02-02-04 02-02-04 02-02-04 02-02-04 02-10-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04	02-03-04 02-03-04 02-02-04 02-02-04 03-15-04 03-15-04 03-15-04 03-16-04 03-16-04 03-18-04 03-18-04 03-18-04
0402014-01A W0432 W0432 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 OPH04001 X04194 X04194 X04194 X04194 X04194 X04194 X04194 X04194 X04194 X04194	WC.2004.280.9 WC.2004.270.7 WC.2004.270.1 WC.2004.276.1 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18	SW846 Sect. 57-12-5 SW846-90455 SW846 1311/ 75-35-4 107-09-2 71-49-2 56-23-5 108-69-7 67-66-3 76-93-3 127-18-4	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water (c 82608 Purgeable VOCa by G 1,1 Dichloroethylene 1,2 Dichloroethane (EDC) Benzene Carbon tetrachleride Chlorobenzene Chlorobenzene Chloroform Mathyl ethyl ketone Tetrachloroethylene	ND ND 7.5 2 21.5 2 21.5 0C/MB TCLP ND 0.001 ND ND ND 0.021 0.018	mg / Kg mg / Kg units deg C mg / L mg / L	1 1 1 1 1 1 1 1 1	20 By: 280 600 By: 0.1 0.01 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.005 0.001	NJL NJL 1 WJ H H H H H H	02-02-04 02-02-04 02-02-04 02-02-04 02-14-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04	02-03-04 02-03-04 02-02-04 02-02-04 03-15-04 03-15-04 03-15-04 03-16-04 03-16-04 03-18-04 03-18-04 03-18-04
0402014-01A W0432 W0432 OPK04001 OPK04001 OPK04001 CPK04001 CPK04001 CAU2014-01B X04184 X04184 X04194 X04194 X04194 X04194 X04194	WC.2004.280.9 WC.2004.278.1 WC.2004.276.1 WC.2004.276.1 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18	SW846 Sect. 57-12-5 BW846-9045 SW846 1311/ 75-35-4 107-08-2 71-43-2 66-23-5 108-90-7 67-68-3 76-93-3 127-18-4 78-01-4	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water ( 82608 Purgeable VOCs by G 1,1 Dichloroethylene 1,2 Dichloroethane (EDC) Benzene Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroform Mathyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND           7.5           2           21.5           C/MB TCLP           ND           ND           0.001           ND           0.001           ND           0.001           ND           0.001           ND           0.001           ND           0.001           ND           0.021           0.018           0.041	mg / Kg mg / Kg mg / Kg deg C mg / L mg / L		20 By: 250 500 By: 0.1 0.01 0.001 0.	NJL NJL 1 CWJ H H H H H H H H H	02-02-04 02-02-04 02-02-04 02-02-04 02-10-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04	02-03-04 02-03-04 02-02-04 02-02-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04
0402014-01A W0432 W0432 OPH04001 OPH04001 OPH04001 CPH04001 CPH04001 CAD2014-01B X04194 X04194 X04194 X04194 X04194 X04194 X04194 X04194 X04194	WC.2004.280.9 WC.2004.278.1 WC.2004.276.1 WC.2004.276.1 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18 XG.2004.424.18	SW846 Sect. 57-12-5 BW846-9045 SW846 1311/ 75-35-4 107-08-2 71-43-2 66-23-5 108-90-7 67-68-3 76-93-3 127-18-4 78-01-4	7.3 Cyanide, Reactive Guilide, Reactive C pH waste pH measured in water & 82608 Purgeable VOCs by G 1,1 Dichloroethylene 1,2 Dichloroethylene Carbon tetrachleride Chlorobenzene Chlorobenzene Chloroform Mathyl ethyl keione Tetrachloroethylene Trichloroethylene Vinyl chloride	ND           7.5           2           21.5           C/MB TCLP           ND           ND           0.001           ND           0.001           ND           0.001           ND           0.001           ND           0.001           ND           0.001           ND           0.021           0.018           0.041	mg / Kg mg / Kg mg / Kg deg C mg / L mg / L		20 By: 250 500 By: 0.1 0.01 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	NJL NJL 1 CWJ H H H H H H H H H	02-02-04 02-02-04 02-02-04 02-02-04 02-10-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04	92-03-04 02-03-04 02-03-04 02-02-04 02-02-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04 03-15-04

SQLCoyole: Reports 1.0.0402241300XX REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL. THIS REPORT MAY NOT DE USED IN ANY MANNER BY THE GUIDET OF ANY OTHER THIRD PARTY TO GLAIM PROPART MAY NOT DE USED IN ANY MANNER BY THE CONSENT OF ANY OTHER THIRD PARTY TO GLAIM PROPART MAY NOT DE USED IN ANY MANNER BY THE CONSENT OF ANY OTHER THIRD PARTY TO GLAIM

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MAR. 18. 2004 7:57AM HOBBS AMERICA MAR 17 04 10:14 TO-615053934692

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FROM-ASSAIGAI LABS

NO. 055 P. 3 T-300 P. 02/03 F-858

Asseigel Analytical Laboratories, Inc.

# Certificate of Analysis

Client: Project:	cri Wash Sump- Wi	EATHERFO	RD							
Order:	0402014 CRI	<b>01</b> F	leceipt: 02-02-04							
Sample:	SUMP			Collected: 01-2	9-04 16:00:1	00 By: 1	.P			
Matrix:	SLUDGE									
QC Group	e Run Sequence	CA5 #	Analyte	Result	Units	Pllution Factor	Detection Limit	Code	Prep Date	Run Dite
0402014-0	)18	SW046 3580	A/8270C SVOCs by GC/MB TC	LP			By:	bs		
X0480	XG.2004,250,4	121-14-2	2,4-Dinilrotoluene	ŇD	! mg/L	· 1	100		02-11-04	02-12-04
X0490	XQ.2004.200.4	118-74-1	Hexachlorobenzene	ND	: mg/L	1	10		02-11-04	02-18-04
X0490	XG.2004.200.4	87-88-3	Hexachlorobutadiene	ND	mg / L	1	10	• • • • • • • • • • • • • • • • • • •	02-11-04	02-12-04
X0490	XQ,2004,260.4	67-72-1	Hexachloroethane	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4		m-Cresol & p-Cresol	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.200,4	B8-95-3	Nitrobensene	ND	mg/L	 _ 1	10		02-1 1-04	02-12-04
K0490	XG.2004.200.4	95-48-7	o-Creso!	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG,2004.260,4	87-86-5	Pentachlorophenol	; ND	mg/L	1	100		02-11-04	02-12-04
X0490	XG.2004.260.4	110-86-1	Pyridine	ND	mg/L	: 1	100		02-11-04	02-12-04
0402014-0	D1C	BW846 1311	/3010A/6010B ICP TCLP				By:	крw		
M04233	MT.2004.338.23	7440-38-2	Arconic	ND ND	: mg/L	1	0.2	· 1	02-18-04	02-23-04
M04233	MT.2004.327.19	7440-38-3	Barium	ND ND	mg/L	. 1	0.z		02-18-04	02-19-04
M04233	MT.2004,327.19	7440-43-8	Cadmlum	ND	mg / L	່ <b>1</b> -	0.02	<b></b> .	02-19-04	02-19-04
M04283	MT.2004.336.23	7440-47-3	Chromium	NP	mg / L	1	0.02	· [	02-19-04	02-29-04
M04283	MT.2004.327.19	7782-49-2	Spjenjum	ND	mg/L	1	0.05	····· ]	02-10-04	02-19-04
MD4233	MT.2004.327.18	7440-22-4	Sliver	ND	mg/L	<u>'</u> 1	0.04		02-18-04	02-19-04
0402014-0	010	8W846 1311	/3010A/7000 series AA-FL TCL	P			By:	DAH		
MD4298	MT.2004.328.35	7430-02-1	Leed	NP	mg/L	<u>i</u> i '	0.1		07-19-04	02-20-04
0402014-0	210	SW846 1311	17470A CVAA TCLP				By:	DAH		
M0423D	MT.2004.322.17	i 7439-97-9	Mercury	ŃD	mg/L	1	0.0002		02-18-04	02-19-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by other or client representative. Sample result of ND indicates Not Defected, le result is less than the sample specific Detection Limit. Semple specific Detection Limit is determined by multiplying the sample Dikulton Factor by the listed Reporting Detection Limit. All results relate only in the items tested. Any miscellaneous workerder information or foonotes will appear below.

pH was analyzed at 16:03 on 2/2/04.

MEMO: Plass hold that the sample cooler was received at 16 degrees Celcius.

• FE	B 24 '04 11:39	TO-6150539336	15 FROM-ASSAIGAI	LABS			T-562	P.01/0	3 F <b>-</b> 854	
	4301 Mar	YTICAL RATOR	ES, INC. Albuquerque, New Mexic						7269	, ₽
<u>(******</u> ***	3332 Wee	dgewood, S	te. N • El Paso, Texas 7992	5 • (915) 5	593-6000	• FAX (	15) 593-7	820		
	127 Eastg	gate Drive, 2	12-C • Los Alamos, New N	Nexico 875	44 • (50)	5) <b>9</b> 62-25	<sup>o</sup> Explana	ition of	f codes	
						B	analyte de	lected in	Method E	Nank
_						E		sult is es	-	
C	RI IN: <b>DAVID PARS</b> (					H			f hold time	
	OX 388	7143				. <u>N</u>		subcontri	ed compo acted	
	OBBS	NN	88241			1-9		see foot		
			Assaigai Analyticai La	boratorias, in					S	TANDARD
Project: V	RI VASH SUMP- WI 402014 CRI		Certificate of RD Receipt: 02-02-04	FMbiam	A		i Knatylicaj Lebo	Duratories, In	<u>c.</u>	
	SUMP	<u> </u>	Ço	lected: 01-2	9-04 16:00:0	00 By: L	.p			
Matrix: S				• •	·					
						Dilution	Detection		Prep	Run
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Factor	Limit	Code	Date	Date
0402014-01A		SWB46 1010	· · · · · · · · · · · · · · · · · · ·				By:	RAC		
SFLASH-04-05	WC,2004.313.2		Flashpoint	>60.0	Deg C	1	20		02-03-04	02-03-04
0402014-01A			· · · · · · · · · · · · · · · · · · ·	· ·						
W0432	WC.2004.280.8	57-12-5	Cyanide, Reactive	ND	/ mg / Kg	1	By: 250		02-02-04	02-03-04
W0432	WC.2004.279.7		Sulfide, Reactive	ND	mg / Kg	1	500		02-02-04	02-03-04
0402014-01A		SW846-9046				**************************************	By:	NJL		
OPH04001	WC.2004.276.1		pH	7.5	units	1	0.1		02-02-04	02-02-04
OPH04001	WC,2004.276.1		waste pH measured in water @	21.5	deg C	1	0		02-02-04	02-02-04
0402014-018	•	SIMBAR 3580	A/8270C SVOCs by GC/MS TCLP	•	_h	······································	By:	DS		
X0490	XG.2004.280.4	108-46-7	1,4-Dichlorobenzene	ND	mg/L	1	10 by.		02-11-04	02-12-04
X0490	XG.2004.260.4	95-95-4	2,4,5-Trichlorophenol	ND	mg/L	1	100	· ··	02-11-04	02-12-04
X0490	XG.2004.260.4	88-08-2	2,4,6-Trichlorophenol	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.280.4	121-14-2	2,4-Dinitrotoluene	ND	mg/L	1	100		02-11-04	02-12-04
X0400	XG.2004.260.4	118-74-1	Hexachlorobenzene	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	87-68-3	Hexachlorobutadiene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	67-72-1	Hexachloroethane	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4		m-Cresol & p-Cresol	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.280.4	98-95-3	Nitrobenzene	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.280.4	95-48-7	o-Cresol	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	87-86-5	Pentachlorophenol	ND	mg/L	1	100		02-11-04	02-12-04
X0490	XG.2004.260.4	110-86-1	Pyridine	ND	mg/L	1	100		02-11-04	02-12-04
0402014-01B X0449			A/8260B Purgeable VOCs by GC	and the second se			By:	CMJ	<b>nn ++</b> + +	AG 45 T
VV449	XG.2004.285.7	75-35-4	1,1 Dichloraethylene	ND	mg/L	1	0.05	L I	02-11-04	02-13-04
Pag 7 2			SQLCoyote: Reports 1.0.03	10221500XX			Report Dat	le 2/24/	2004 11:2	9:58 AM



SQLCoyote: Reports 1.0.0310221500XX REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL. THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIFFIC OG ANY OTHER THIND BARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL VULUNIARY LABORATORY ACCREDITATION PROGRAM.

#### FEB 24 '04 11:39 TO-615053933615

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FROM-ASSAIGAI LABS

T-562 P. 02/03 F-854

Asseigal Anelytical Laboratories, Inc. Certificate of Analysis

Client:	CRI									
Project:	WASH SUMP- WE	ATHERFOR	RD							
Order:	0402014 CRI		tecelpt: 02-02-04							
					<u> </u>	. <u></u>				
Sample:	SUMP			Collected: 01-2	9-04 16:00:	00 By: l	P			
Matrix:	SLUDGE					-				_
QC Group	Run Sequence	CAB #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code		Run Date
						I detei		0040		Date
0402014-0	919	SW846 5030	N/8260B Purgeable VQCs by	GC/MS TCLP			By:	CWJ		
X0449	XG.2004.285.7	107-08-2	1,2 Dichloroethane (EDC)	ND	mg/L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	71-43-2	Benzene	ND	mg/L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	56-23-5	Carbon tetrachloride	ND	mg/L	1	0.05	- 1	02-11-04	02-13-04
X0449	XG.2004.285.7	108-90-7	Chlorobenzena	ND	mg/L	1	0.05		02-11-04	02-13-04
XD449	XG.2004.285.7	67-66-3	Chloroform	ND	j mg/L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.255.16	76-93-3	Methyl ethyl ketone	ND	mg/L	1	0.25		02-18-04	02-18-04
X0449	XG.2004.285.7	127-18-4	Tetrachloroethylane	0.97	mg/L	1	0.05		02-11-04	02-13-04 🔊 🔿
X0449	XG.2004.265.7	79-01-0	Trichiorouthylene	0.78	mg/L	1 1	0.05		02-11-04	02-13-04 . 5
X0449	XG.2004.285.7	75-01-4	Vinyl chloride	ND	mg/L	1	0.05		02-11-04	02-13-04
0402014-0	01C	SW846 1311/	3010A/6010B ICP TCLP				By:	KDW		
M04233	MT.2004.336.23	7440-38-2	Arsenic	ND	mg / L	1	0.2		02-19-04	02-29-04
M04233	MT.2004,327.19	7440-39-3	Barium	ND	mg/L	1	0.2	·· ·	02-19-04	02-19-04
<b>M04</b> 23a	MT.2004.327.18	7440-43-9	Cadmium	ND	mg/L	1	0.02		02-19-04	02-19-04
M04233	MT.2004.336.23	7440-47-3	Chromium	ND	mg/L	1 1	0.02		02-19-04	02-23-04
M04233	MT.2004.327.19	7782-49-2	Selenium	ND	mg/L	1	0.05		02-19-04	02-19-04
M04233	MT.2004.327,10	7440-22-4	Silver	ND	mg/L	1	0.04		02-19-04	02-19-04
0402014-0	)1C	SW846 1311/	3010A/7000 series AA-FL TC	LP			By:	DAH		
M04233	MT.2004.329.35	7439-92-1	Lead	ND	mg/L	1	0.1	l	02-19-04	02-20-04
0402014-0	11C	SW846 1311/	7470A CVAA TCLP			<b></b>	By:	DAH		
M04230	MT.2004.322.17	7439-97-8	Mercury	ND	mg/L	1	0.0002	<u>ر                                    </u>	02-19-04	02-19-04

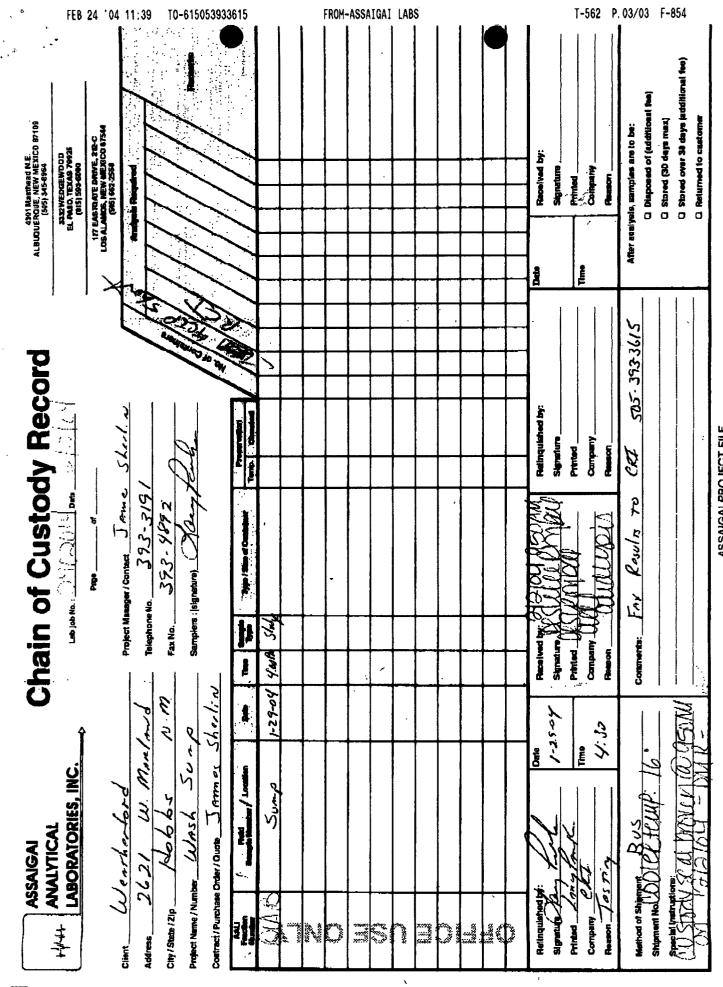
Unless otherwise noted, all samples were received in ecceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, is result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

pH was enalyzed at 15:03 on 2/2/04.

MEMO: Please note that the sample cooler was received at 16 degrees Celcius.

Page 2 of 2

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ASSAIGAI PROJECT FILE

# CRI CONTROLLED RECOVERY INC.

P.O. BOX 388 • HOBBS, NM 88241 • (505) 393-1079

March 22, 2004

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

Dear Ms. Kieling,

RE: Weatherford Lab report

We recently started using Assaigai Labs in Albuquerque and have run into a problem with their testing procedure. On this particular sample, a lab tech made a decision that this sample was oil and not sludge. According to them, testing methods for oil and sludge differ. The oil itself is used as the analyte instead of doing the typical leaching procedure and then using that as the analyte. I questioned their results is how I came up with their response. In light of this, I asked them to re-run the volatiles and am enclosing their revised results.

If you want to call and visit with someone at the lab, our contact is Skip Tabor, mobile number is (505)250-3981, and their office is (505)345-8964.

Please call me if you have questions.

Thanks for your help.

Paron

**David Parsons** 

District In RECEIVED	
	ces Form C-138 Revised June 10, 2003
-1625 N. French Dr., Hobbs, NM 88240       State of New Mexico         District II       1301 W. Grand Avenue, Artesia, NM 88210       0 3 2004 Energy Minerals and Natural Resour         District III       Oil Conservation Division	Submit Original
1000 Rio Brazos Road, Aztec, NM 87410. District IV 1220 South St Francis Dr	Plus 1 Čopy to Appropriate
1220 S. St. Francis Dr., Santa Fe, NM 87505 VISION Santa Fe, NM 87505	District Office
REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: X	4. Generator Weatherford
□ Verbal Approval Received: Yes No X	5. Originating Site Hobbs, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2621 W. Marland, Hobbs, NM	
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accompanied by ne material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transp	ort.
BRIEF DESCRIPTION OF MATERIAL:	18910111
RE: 02-25-04A	од 56 1 8 9 10 11 12 13 18 15 О 000 5000 55 С 5000 5
Sump Sludge.	
Washing of down hole oilfield pumps and equipment. Enclosed is non-exempt certificate of waste status, Analytical data, and Chain-of-Custody	
This approval is for one year.	502 42 92 97 47 EZ ZU
Estimated Volume 300 Bbls/annually. Known Volume (to be entered by the operator at the	e end of the haul)cy
SIGNATURE Kim HOWEN TITLE: <u>Rep</u> DATE: Waste Management Facility Authorized Agent	<u>02-25-04</u>
TYPE OR PRINT NAME: Kim Flowers       TELEPHONE NO. (505)393-1079	- + 70
E-MAIL ADDRESS david@crihobbs.com	- 10707 030704
(This space for State Use)	
APPROVED BY: THE ENTRO E	PGE DATE: 2.26.04
APPROVED BY:     TITLE:     Extraction       APPROVED BY:     DENIED     TITLE:	DATE:
	······································

### CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR Weatherford

ADDRESS \_\_\_\_\_2621 w Marland \_\_ Hobbs \_\_ NM \_\_\_\_ 88240 \_\_\_\_

GENERATING SITE Hobbs Facility. 2621 W. Marland

COUNTY Lea STATE NM

-----

TYPE OF WASTE <u>sump sludge</u>

ESTIMATED VOLUME 300Bbls.

GENERATING PROCESS Washing of downhole cilfield

pumps and equipment.

REMARKS

NMOCD FAULLIT Controlled Recovery, Inc.

TRUCKING COMPANY\_CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Agenus Shelin
SIGNATURE
NAME_James_Sherlin
NAME James Sherlin PRINTED
ADDRESS_2621 W. Marland
Hobbs, NM 88240

DATE\_ 2-25-04

NO. 887 P. 1

HOBBS AMERICA

1

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FROM-ASSAIGAI LABS

	4301 Ma	STHEAD	L RIES, INC. • Albuquerque, New Mexic Ste. N • El Paso, Texas 7992 212-C • Los Alamos, New 1	25 • (915)	593-6000	• FAX (	915) 593-7	7820		≠>
						В	analyte de	etected i	n Method I	Blank
						E		sult is es		
	CRI attn: DAVID PARS(					H			of hold tim	
	BOX 388	242				S N		subconti	fied compo	
	HOBBS	N	M 88241			1-9		see foo		
						<u></u>				. <u></u> /
<i>******</i>			Assaigal Analytical La	boratories, (			·····		S	TANDARD
Client: Project: Order: Sample:	CRI WASH SUMP- WI 0402014 CRI SUMP		Receipt: 02-02-04	-	n P. Blave: Prosic		Hindlyfical Labo	Dratonies, in	IC.	
Matrix	SLUDĠE									
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	_ '	Run Date
0402014-01		SW846 101	0				By:	RAC		
SFLASH-04-	05 WC.2004.313.2	~_	Flashpoint	>60.0	Deg C	1	20		02-03-04	02-03-04
0402014-01	Α	5W846 9e	it. 7.3				By:	NJL		
W0432	WC.2004.260.8	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		02-02-04	02-03-04
W0432	WC.2004_279.7		Sulfide, Reactive	ND	mg / Kg	1	600		02-02-04	02-03-04
0402014-01	<b>A</b>	SW846-904	5C				Bv:	NJL		
OPH04001	WC.2004.276.1	1	pH	7.5	units	1	0.1	1	02-02-04	02-02-04
OPH04001	WC.2004.276.1		weste pH messured in water @	21.5	O geb	1	0		02-02-04	02-02-04
0402014-01	8	SW846 358	0A/8270C SVOCs by GC/MS TCLP				By:	DS		
X0490	XG.2004.260.4	108-48-7	1,4-Dichlorobenzene	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	95-95-4	2,4,5-Trichlorophenol	ND	mg/L	1	100	· ··	02-11-04	02-12-04
X0490	XG.2004.260.4	88-05-2	2,4,6-Trichlorophenol	ND	mg/L	1	100		02-11-04	02-12-04
X0490	XG.2004.260.4	121-14-2	2,4-Dinitrotoluene	ND	mg/L	1	100		02-11-04	02-12-04
X0400	XG.2004.280.4	118-74-1	Hexachlorobenzene	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	87-68-3	Hexachlorobutadiene	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.280.4	67-72-1	Hexachioroethane	ND	mg/L	1	10	·	02-11-04	02-12-04
X049Q	XG.2004.260.4		m-Cresol & p-Cresol	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	98-95-3	Nitrobenzene	ND	mg/L	1	10		02-11-04	02-12-04
X0400	XG.2004.280.4	95-48-7	o-Cresol	ND	mg/L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	87-86-5	Pentachlorophenol	ND	mg/L	1	100		02-11 <b>-04</b>	02-12-04
X0490	XG.2004.260.4	110-86-1	Pyridine	ND	mg/L	1	100		02-11-04	02-12-04
0402014-01	B	SW848 503	A/8260B Purgeable VOCs by GC/	MS TO P				~~~~	•	
X0449	XG.2004.285.7	76-35-4	1,1 Dichloraethylene	ND	mg/L	1	By: 0.05	CWJ	02-11-04	02-13-04
		·								

SQLCoyote: Reports 1.0.0310221500XX

Report Date 2/24/2004 11:29:58 AM



REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL. THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLARMY OR ANY OTHER THIND WARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL VURLINIARY LABORATORY ACCREDITATION PROGRAM. ~č

FROM-ASSAIGAI LABS

Assaigai Analytical Laboratories, inc.

# **Certificate of Analysis**

Client	CRI									
Project:	WASH SUMP-WI	EATHERFO	RD							
Order:	0402014 CRI	01 1	Receipt: 02-02-04							
Sample:	SUMP			Collected: 01-2	9-04 16:00:	00 By: 1	LP			
Matrix:	SLUDGE		·····		<u></u>	<u> </u>			· • • • • • • • • • • • • • • • • • • •	
QC Group	Nun Sequence	CA6 #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
			A/8260B Purgeable VOCs by	CCINS TO D			By:	CMJ		
0402014-0	XG.2004.285.7	107-08-2	1,2 Dichloroethane (EDC)	ND ND	j mg/L	1	0.05		02-11-04	02-13-04
X0448	XG.2004.285.7	71-43-2	Benzene	ND	mg/L	<u>†                                    </u>	0.05	į ·	02-11-04	02-13-04
X0449 X0449	XG.2004.285.7	56-23-5	Carbon tetrachloride	ND -	mg/L	1	0.05	· ·	02-11-04	02-13-04
X0449	XG.2004.285.7	108-90-7	Chlorobenzens	ND ND	mg/L	1 1	0.05	i	02-11-04	02-13-04
X0449	XG.2004.285.7	67-86-3	Chloroform	ND	mg/L	1 1	0.05	·	02-11-04	02-13-04
X0449	XG.2004.255.16	76-09-3	Mathyl ethyl ketone	ND	mg/L	<u>+-</u> 1_	0.25	]	02-18-04	02-18-04
X0449	XG.2004.285.7	127-18-4		1 0.97	mg/L	1 1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	79-01-0		5 0.78	mg/L	<u>+-</u> , , ·-	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	75-01-4	Vinyi chloride	ND	mg/L	1	0.05		02-11-04	02-13-04
0402014-0		SW846 131	1/3010A/6010B ICP TCLP				By:	KDW		
M04293	MT.2004.336.23	7440-38-2	Arsenic	ND	mg / L	1	0.2		02-19-04	02-23-04
M04233	MT.2004.327.19	7440-39-3	Barium	ND	mg/L	1	0.2		02-19-04	02-19-04
M0423à	MT.2004.327.19	7440-43-9	Cadmium	ND	, mg/L	1	0.02		02-19-04	02-19-04
M04233	MT.2004.338.23	7440-47-3	Chromium	ND	mg/L	1	0.02		02-19-04	02-23-04
M04233	MT.2004.327.10	7782-49-2	Səlenium	ND	mg/L	1	0.05		02-19-04	02-19-04
M04233	MT.2004.327.19	7440-22-4	Silver	ND	mg/L	1	0.04		02-19-04	02-19-04
0402014-	01C	SW846 131	1/3010A/7000 series AA-FL TC	2LP			By:	DAH		
M04233	MT.2004.329.35	7439-92-1	Lead	ND	mg / L	11	0.1	]	02-19-04	02-20-04
0402014-0	01C	8W846 131	1/7470A CVAA TCLP				By:	DAH		
M04230	MT.2004.322.17	7439-97-8	Mercury	ND	mg/L	1	0.0002	Τ	02-19-04	02-19-04

Unless otherwise noted, all samples were received in eccoptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, is result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

1 pH was analyzed at 15:03 on 2/2/04.

MEMO: Please note that the sample cooler was received at 16 degrees Celclus.

Page 2 of 2

FEB 24 04 11:39 TO-61505393	3615	FROM-ASSAIGAI LABS	T-562 P.	03/03 F-854
4361 Masthead N.E. ALBUGUEROUE, NEW MEXICO 87109 (595) 345-8964 (595) 345-8964 (595) 345-8964 (177 EASTATE DATE) (177 EASTATE DATE, 287-600 (177 EASTATE DATE) (196) 667 2585 (296) 667 2585 (296) 667 2585			Racosived by: Signature Printed Coingramy	After stellysis, samples are to be: Disposed of (additional fee) Stored (30 ders max) Stored over 34 days jadditional fee) Returned to customer
ALBUDUE				After as
Chain of Custody Record La Jahn of Custody Record Project Manager / Contact Jern S. J.	The Read in the Contract of Tarts ( 25-1000)		Paralved by: 79104 MCUMM Reinquiched by: Signature Signature Signature Company UCUM Reserved by: Signature Company UCUM Reserved by: Signature Sig	commerts: Far Results to CRT SD5-3933615
ANALYTICAL ANALYTICAL	VIA Sunda 1-29-04		Reinquished by: Heinquished by: Signatule fair Printed Anny Line Company C.L. Hencon 10577	Hesthead of Shipmone BUS Shipmon Hold DOLE HELLIP. 16 Special Instructions ON SDAV S. al. DIGVEN (DOGMU

ASSAIGAI PROJECT FILE

District x       RECEIVED       State of New Mexico         1625 WFrench Dr., Hobbs, NM 88240       Energy Minerals and Natural Resourd         District II       Energy Minerals and Natural Resourd         1301 W. Grand Avenue, Artesia, NM 88249       0 3 2004         District III       Oil Conservation Division         1000 Rio Brazos Road, Aztec, NM 87410       Oil Conservation Division         District IV       OIL CONSERVATION1220 South St. Francis Dr.         1220 S. St. Francis Dr., Santa Fe, NM 87695 VISION       Santa Fe, NM 87505	Form C-138 Revised June 10, 2003 Submit Original Plus 1 Copy to Appropriate District Office
REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
	4. Generator Duke Energy Field Services, LP
1. RCRA Exempt:       Non-Exempt:       X         □Verbal Approval Received:       Yes       No	5. Originating Site See attached list
2. Management Facility Destination Controlled Recovery Incorporated	6. Transporter Controlled Recovery Inc.
3. Address of Facility Operator P.O. Box 388, Hobbs, New Mexico	8. State New Mexico
7. Location of Material (Street Address or ULSTR) See attached list	
<ul> <li>9. <u>Circle One</u>: <ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> <li>All transporters must certify the wastes delivered are only those consigned for transp</li> </ul> </li> <li>BRIEF DESCRIPTION OF MATERIAL: <ul> <li>02-25-04</li> </ul> </li> <li>RCRA non-exempt, non-hazardous sludge from the surface of equipment (engine) skids a booster/compressor stations located in Eddy and Lea County, New Mexico.</li> </ul> <li>Sludge results when rainwater, incidental amounts of coolant, and lubricating oils leak on and dirt due to blowing winds. The material builds up in the containments and must be performed and the Material Safety Data Sheets (MSDS) for Lubricating Oil (Pegasus 805, Pegasus 4 attached.</li>	to the equipment skids and then accumulate sand eriodically removed and disposed.
Estimated Volume _approx. 40 bbls/yr cy Known Volume (to be entered by the	operator at the end of the haul)cy
SIGNATURE Autorized Agent TITLE: Office	DATE: <u>02-25-04</u>
TYPE OR PRINT NAME: Kim Flowers TELEP	HONE NO. (505) 393-1079
E-MAIL ADDRESSdavid@crihobbs.com	HONE NO. <u>(505)393–1079</u>
(This space for State Use) APPROVED BY: The fluxer TITLE: Environment APPROVED BY: Martin J. 24. TITLE: Environment	DATE: 2,26.04 160/09/151 DATE: 3-4-04



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February 23, 2004

DUKE ENERGY FIELD SERVICES 3300 North A Street Building 7 Midland, TX 79705

432 620 4000

Dave Parsons Controlled Recovery Inc. P.O. Box 88 Hobbs, NM 88241

RE: Certificate of Waste Status and Request for Approval to Accept Solid Waste Duke Energy Field Services, LP, Eddy and Lea County, New Mexico Booster/Compressor Stations

Dear Dave:

Duke Energy Field Service, LP (DEFS) requests approval to dispose of sludge material generated at compressor/booster locations that results when sand and dirt combine with the normal incidental leakage from engine compressor packages on the equipment bases. The resulting sludge must be removed and disposed as RCRA non-exempt, non-hazardous material. The process is the same at each site, therefore the analytical from Nash Booster is a representative analytical of the waste. Please find enclosed the following:

- Certificate of Waste Status
- Request for Approval to Accept Solid Waste (NMOCD C-138)
- Laboratory Analytical
- Applicable Material Safety Data Sheets (MSDS)

DEFS appreciates your consideration of this request and understands that you will seek NMOCD approval of this request. Please send a copy of the final approval forms to my attention at the following address:

Lynn Ward Duke Energy Field Services, LP 10 Desta Dr., Suite 400-W Midland, TX 79705

If you have any questions regarding this request, please call me at 432/620-4207.

Sincerely, Duke Energy Field Services, LP

Ward

St. Environmental Specialist Western Division

Cc: G. Kardos R. Counts K. Winn R. Gilchrest K. Char-Kimura Env. File 4.1.9

Originating Sites	Location (Sec., Township, Range)
Burton Flats Booster	NW/4 NW/4, Sec. 1, T21S, R27E, Eddy County
Chalk Bluff Booster	SE/4 SW/4, Sec. 12, T18S, R27E, Eddy County
Dagger Draw Booster	SE/4 SE/4, Sec. 36, T19S, R24E, Eddy County
Dobbs Booster	NW/4, Sec. 20, T17S, R34E, Lea County
Emily Booster	NW/4, Sec. 22, T19S, R25E, Eddy County
Feagan Booster	SE/4 SW/4, Sec. 31, T19S, R25E, Eddy County
Fitz Booster	SW/4 NE/4, Sec. 34, T19S, R29E, Eddy County
Golf Course Booster	SE/4, Sec. 25, T21S, R36E, Lea County
Grayburg Booster	SE/4 NW/4, Sec. 18, T17S, R30E, Eddy County
Illinois Camp Booster	NW/4, Sec. 5, T18S, R28E, Eddy County
Kemnitz Booster	NE/4 SW/4, Sec. 20, T16S, R34E, Lea County
Lovington Booster	SW/4 SW/4, Sec. 31, T16S, R37E, Lea County
Logan Draw Booster	SE/4 NW/4, Sec. 25, T17S, R27E, Eddy County
Lusk Booster	NW/4 NE/4, Sec. 19, T19S, R32E, Lea County
Maljamar Booster	NW/4 SE/4, Sec. 20, T17S, R33E, Lea County
Nash Booster	Sec. 13, T23S, R29E, Eddy County
Oil Center Booster	NW/4, Sec. 33, T20S, R37E, Lea County
Parkway Booster	SW/4 SE/4, Sec. 34, T18S, R31E, Eddy County
Penroc Booster	NE/4, Sec. 27, T20S, R27E, Eddy County
Quail Booster	NE/4 NE/4, Sec. 14, T32S, R37E, Lea County
Shugart Booster	SE/4, Sec. 20, T18S, R31E, Lea County
Shadow Booster	NE/4 NE/4, Sec. 20, T18S, R26E, Eddy County
South Carlsbad Booster	SW/4, Sec. 7, T27S, R23E, Eddy County
Square Lake Booster	NW/4 NW/4, Sec. 4, T17S, R30E, Eddy County
Winchester Booster	SE/4, Sec. 15, T19S, R27E, Eddy County

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7 ; J.

CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"
COMPANY/GENERATOR Duk Energy Field Services, LP
ADDRESS 10 Desta Dr. Suite 400-W, Midland, TX 79705
GENERATING SITE Sur attached
COUNTYSTATE NM
TYPE OF WASTE <u>RCRA non-exempt non hazardons sludg</u> e
ESTIMATED VOLUME ~ 40 bb/s/yr
GENERATING PROCESS <u>incidental amts of coolant 1</u> lube oil that drip onto equipment skido and accumulate sand and dirt from blowing winds.
Sand and dirt from blowing winds.
REMARKS
NMOCD FACILITY Controlled Recovery Inc.
NMOCD FACILITY <u>Controlled Recovery Inc.</u> TRUCKING COMPANY <u>Controlled Recovery Inc.</u>
As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's
(EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the
nature as non-hazardous. I further certify that to my knowledge "hazardous
or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant
mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.
AGENT Time Ward
NAME Lynn Ward
PRINTED ADDRESS 10 Desta Dr. Suite 400-W
ADDRESS <u>10 Desta Dr., Suite 400-</u> W <u>Midland, TX 79705</u> DATE <u>2/23/04</u>
DATE 2/23/04

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(F-6087)		0-6150539336	FROM-ASSAIGAI	LABS			T-384	P.01/02	F-609	
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	ASSAI									
	戦襲 ANAL	YTICAL	•							
1 Ale		RATOR	IES, INC.							
			- Albuquerque, New Mexic	0 87109 +	(505) 345	-8964 •	FAX (505)	345-72	259	
Line .										=>
	3332 Web	<b>Igewood, 3</b> Inte Drive	ite. N • El Paso, Texas 79925 212-C • Los Alamos, New M	<b>Aexico 8754</b>	4 • (505	662-25			andre	
	151 10918				·· <b>、</b>					
						• <b>B</b>	analyte del			liank
~	Cot .					. E		ult is esti	inalao hold time	
	RI III: DAVID PARSO	NC				N -	tentatively			
	OX 388					S		ubcontra		
	OBBS	N	88241			1-9		see footr	ote	
						·				
									S	TANDA
			Assaigei Analytical La	bor <b>ntories</b> , in	c.		PEVIS	ED		
			Certificate of	' Analvs	sis –	A. P	પ્રસાબ્ધ લ	15.12		
				•		// 14	Hallon I			
-						1				
Client: (	CRI				- 111	A I I I				
Project: [	DUKE ENERGY S	SERVICES-	NASH BOOSTER			/\\./\\				
Order: (	1401327 CRN	01	Receipt: 01-20-04	William I	P. Glavil: Please	iont of Australian	AnelyGoal Labo	valories, in	ç	
		·····								
Complet 1										
aamhid: 1	NASH BOOSTER	r Drums	Co	liected: 01-14	1-04 14:00:0	X0 By: L	.W			
	nash boosten SLUDGE	r Drums	Co	liected: 01-14	1-04 14:00:(	хо ву: L	.₩			
		R DRUMS	Co	liected: 01-14					Preto	Run
Metrix:	SLUDGE	CAS #		Result	1-04 14:00:(  Unita	0 By: L Dilution Factor		Gode		Run Date
Matrix:	Run Bequence		Co Analyte			Dilution	Detection Limit			
Matrix: ( QC Group 0401327-01/	Run Bequence		Analyte C	Result	Unita	Dilution Factor	Detection Limit By:		Date	Date
Matrix:	Run Bequence	CAS #	Analyte			Dilution	Detection Limit			Date
Matrix: ( QC Group 0401327-01/	Run Bequence WC-2004.230.2	CAS # SW846 101	Analyte C	Result	Unita	Dilution Factor	Detection Limit By:	RAC	Date	Date 01-20
Metrix: ( QC Group 0401327-01/ SFL042 0401327-01/ ATELWS#526	Run Bequence A WC-2004.230.2 B \$8.2004.60.1	CAS # SW846 101	Analyte C Flashpoint 1/3010A/6010B ICP TCLP Arsenic	Result	Unita	Dilution Factor	Detection Limit By: 20	RAC RJA S	Date 01-26-04 02-16-04	Date 01-26 02-16
Mairix: ( QC Group 0401327-01/ SFL042 0401327-01/ ATELWS#526 ATELWS#526	Run Bequence A WC-2004.230.2 B SB.2004.60.1 9 SB.2004.60.1	CAS # SW846 101	Analyte C Flashpoint 1/3010A/6010B ICP TCL P Arsenic Barium	Result > 60.0 ND ND	Units Deg C mg/L mg/L	Dilution Factor	Detection Limit By: 20 By: 0.75 1	RAC RJA S S	Date 01-26-04 02-16-04 02-18-04	Date 01-26 02-16 02-16
Meatrix:	Run Bequence Run Bequence WC-2004.230.2 SB.2004.80.1 9 SB.2004.60.1 9 SB.2004.60.1	CAS # SW846 101	Analyte C Flashpoint 1/3010A/6010B ICP TCLP Arsenic Barium Cadmium	Result > 60.0 ND ND ND	Units Deg C mg/L mg/L mg/L	Dilution Factor	Detection Limit 20 By: 0.75 1 0.25	RAC RJA S S	Date 01-26-04 02-16-04 02-16-04	01-20 02-10 02-10 02-10
Menrix: QC Group 0401327-014 5FL042 0401327-014 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528	Run Bequence Run Bequence WC.2004.230.2 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1	CAS # SW846 101	Analyte C Flashpoint 1/3010A/6010B ICP TCLP Arsenic Barium Cadmium Chromium	Result           > 60.0           ND           ND           ND           ND	Unita Deg C mg/L mg/L mg/L	Dilution Factor	Detection Limit 20 By: 0.75 1 0.25 0.25	RAC RLA S S S	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-16-04	01-20 02-10 02-11 02-11 02-11
Mairix: QC Group 0401327-014 5FL042 0401327-014 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528	SLUDGE Run Bequence WC.2004.230.2 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1	CAS # SW846 101	Analyte C Flashpoint 1/3010A/6010B ICP TCLP Arsenic Barium Cadmium Chromium Load	Result           > 60.0           ND           ND           ND           ND           ND           ND	Unita Deg C mg/L mg/L mg/L mg/L	Dilution Factor	Detection Limit 20 By: 0.75 1 0.25 0.25 0.5	RAC RJA S S S S	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-16-04	01-20 02-10 02-11 02-11 02-11 02-11
Mainix:	SLUDGE Run Bequence WC.2004.230.2 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1	CAS # SW846 101	Analyte C Flashpoint 1/3010A45010B ICP TCLP Arsenic Barium Cadmium Chromium Lead Selenium	Result           > 60.0           ND           ND           ND           ND           ND           ND           ND	Unita Deg C mg/L mg/L mg/L mg/L mg/L	Dilution Factor	Detection Limit 20 By: 0.75 1 0.25 0.25 0.5 0.5 0.79	RAC R.IA S S S S S S	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04	01-20 02-10 02-10 02-11 02-11 02-11 02-11
Mairix: QC Group 0401327-014 5FL042 0401327-014 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528	SLUDGE Run Bequence WC.2004.230.2 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1	CAS # SW846 101	Analyte C Flashpoint 1/3010A/6010B ICP TCLP Arsenic Barium Cadmium Chromium Load	Result           > 60.0           ND           ND           ND           ND           ND           ND	Unita Deg C mg/L mg/L mg/L mg/L	Dilution Factor	Detection Limit 20 By: 0.75 1 0.25 0.25 0.5	RAC RJA S S S S	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-16-04	01-20 02-10 02-10 02-10 02-10 02-10 02-10
Mainix:	Run Bequence           A           VVC.2004.230.2           A           VVC.2004.230.2           A           SB.2004.60.1           9           SB.2004.60.1	CAS # SW848 101 SW848 131	Analyte C Flashpoint 1/3010A45010B ICP TCLP Arsenic Barium Cadmium Chromium Lead Selenium	Result           > 60.0           ND           ND           ND           ND           ND           ND           ND	Unita Deg C mg/L mg/L mg/L mg/L mg/L	Dilution Factor	Detection Limit 20 By: 0.75 1 0.25 0.25 0.5 0.5 0.79	RAC RLA S S S S S S S S S S	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04	01-20 02-10 02-10 02-10 02-10 02-10 02-10
Maintix:         QC           QC         Group           Q401327-014           SFL042           Q401327-014           ATELWS#528	Run Bequence           W/C.2004.230.2           B           SB.2004.60.1	CAS # SW848 101 SW848 131	Analyte C Flashpoint 1/3010A/6010B ICP TCLP Arsenic Barium Cadmium Chromium Load Selenium Silver	Result           > 60.0           ND           ND           ND           ND           ND           ND           ND	Unita Deg C mg/L mg/L mg/L mg/L mg/L	Dilution Factor	Detection Limit By: 20 By: 0.75 1 0.25 0.25 0.5 0.5 0.79 0.5	RAC RLA S S S S S S S S S S	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04	01-20 02-16 02-16 02-16 02-16 02-16 02-16 02-16 02-10
Mainix:         QC           QC         Group           Q401327-014           SFL042           Q401327-014           ATELWS#528	Run Bequence           WC.2004.230.2           SB.2004.60.1	CAS # SW846 101 SW846 131 SW846 131 SW846 131	Analyte C Flashpoint 1/3010A46010B ICP TCLP Arsenic Barium Cadmium Cadmium Lead Selenium Silver 11/7470A CVAA TCLP Mercuty	Result           > 60.0           ND           ND           ND           ND           ND           ND           ND           ND           ND	Units Deg C mg/L mg/L mg/L mg/L mg/L mg/L	Dilution Factor	Detection Limit 20 By: 0.75 1 0.25 0.25 0.25 0.5 0.79 0.5 By: 0.002	RAC RJA S S S S S S S S ROH	Date 01-28-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04	01-20 02-16 02-16 02-16 02-16 02-16 02-16 02-16 02-10
Mainix:         QC Group           Q401327-01/           SFL042           Q401327-01/           ATELWS#528           Q401327-01/           ATELWS#627	Run Bequence           WC.2004.230.2           SB.2004.60.1	CAS # SW848 101 SW848 131	Analyte C Flashpoint 1/30100/10108 ICP TCLP Arsenic Barium Cadmium Chromium Lead Selenium Silver 11/7470A CVAA TCLP Morcury ct. 7.3	Result           > 60.0           ND	Unita Deg C mg/L mg/L mg/L mg/L mg/L mg/L	Dilution Factor	Detection Limit By: 20 By: 0.75 1 0.25 0.25 0.25 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.	RAC RJA S S S S S S S S ROH	Date 01-28-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04	01-20 02-10 02-11 02-11 02-11 02-11 02-11 02-11
Mainix:         QC Group           Q401327-01/           SFL042           0401327-01/           ATELWS#528           Q401327-01/           ATELWS#627           Q401327-01/	Run Bequence           WC.2004.230.2           B           SB.2004.60.1	CAS # SW846 101 SW846 131 SW846 131 SW846 131 SW846 131 SW846 131	Analyte C Flashpoint 1/3010A46010B ICP TCLP Arsenic Barium Cadmium Cadmium Lead Selenium Silver 11/7470A CVAA TCLP Mercuty	Result           > 60.0           ND           ND           ND           ND           ND           ND           ND           ND           ND	Unita Deg C mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Dilution Factor	Detection Limit 20 By: 0.75 1 0.25 0.25 0.25 0.5 0.79 0.5 By: 0.002	RAC RJA S S S S S S S S ROH	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04	Date 01-20 02-10 02-10 02-10 02-10 02-10 02-10 02-10
Mestrix: QC Group 0401327-01/ SFL042 0401327-01/ SFL042 0401327-01/ ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 0401327-01/ ATELWS#527 0401327-01/ W0432 W0432	SLUDGE Run Bequence WC.2004.230.2 SB.2004.80.1 SB.2004.80.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 SB.2004.60.1 WC.2004.280.3 WC.2004.279.2	CAS # SW846 101 SW846 131 SW846 131 SW846 131 SW846 131 SW846 500	Analyte C Flashpoint I/30104/60108 ICP TCLP Arsenic Barium Cadmium Chromium Lead Selentum Silver I1/7470A CVAA TCLP Morcury ct. 7.3 Cyantice, Reactive Sulfide, Reactive	Result           > 60.0           ND	Unita Deg C mg/L mg/L mg/L mg/L mg/L mg/L	Dilution Factor	Detection Limit By: 20 By: 0.75 1 0.25 0.25 0.5 0.5 0.5 0.5 0.79 0.5 By: 0.002 By: 250 500	RAC RJA S S S S S S S S S S S S S S S S NJL	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04 02-18-04	01-26 02-16 02-16 02-16 02-16 02-16 02-16 02-16 02-16
Mestrix: ( QC Group 0401327-01/ SFL042 0401327-01/ SFL042 0401327-01/ ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 0401327-01/ ATELWS#527 0401327-01/ W0432 0401327-01/	SLUDGE Run Bequence WC.2004.230.2 SB.2004.60.1 SB.2004	CAS # SW846 101 SW846 131 SW846 131 SW846 131 SW846 131 SW846 131	Analyte C Flashpoint I/3010A/6010B ICP TCLP Arsenic Barium Cadmium Chromium Lead Selentum Silver I1/7470A CVAA TCLP Mercuty ct. 7.3 Cyanide, Reactive Sulfide, Reactive K6C	Result           > 60.0           ND	Umita Deg C mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/ Kg mg / Kg	Dilution Factor	Detection Limit By: 20 By: 0.75 1 0.25 0.25 0.25 0.5 0.5 0.79 0.5 8y: 0.002 By: 250 500 By:	RAC RJA S S S S S S S S S NJL	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04	01-20 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-03
Mbstrix:         QC           QC         Group           Q401327-01/           SFL042           Q401327-01/           SFL042           Q401327-01/           ATELWS#528           ATELWS#528           ATELWS#528           ATELWS#528           ATELWS#528           ATELWS#528           ATELWS#528           ATELWS#528           Q401327-01/           WD432           WD432           Q401327-01/           SPH04006	SLUDGE Run Bequence WC.2004.230.2 SB.2004.80.1 SB.2004.80.1 SB.2004.80.1 SB.2004.80.1 SB.2004.80.1 SB.2004.80.1 SB.2004.60.1 SB.2004	CAS # SW846 101 SW846 131 SW846 131 SW846 131 SW846 131 SW846 500	Analyte C Flashpoint I/3010A/6010B ICP TCLP Arsenic Barium Cadmium Chromium Lead Selentum Silver I1/7470A CVAA TCLP Mercuty ct. 7.3 Cyankle, Reactive Sulfide, Reactive K6C pH	Result           > 60.0           ND	Umita Deg C mg/L mg/L mg/L mg/L mg/L mg/L mg/ Kg mg / Kg mg / Kg	Dilution Factor	Detection Limit By: 20 By: 0.75 1 0.25 0.25 0.25 0.5 0.5 0.79 0.5 By: 0.002 By: 250 500 By:	RAC RJA S S S S S S S S S S S S S S S S NJL	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04	Date 01-20 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-00 02-00 02-00
Metrix: QIC Group 0401327-01/ SFL042 0401327-01/ SFL042 0401327-01/ ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 0401327-01/ ATELWS#527 0401327-01/ W0432 W0432 0401327-01/ SPH04006 SPH04006	SLUDGE Run Bequence VVC-2004.230.2 SB.2004.60.1 9 SB.2004.60.1 9 SB.2004.	CAS # SW848 101 SW848 131 SW846 131 SW846 131 SW846 131 SW846 131 SW846 131 SW846 8ec	Analyte C Flashpoint I/3010A/6010B ICP TCLP Arsenic Barium Cadmium Cadmium Cadmium Chromium Lead Selenium Silver I/7470A CVAA TCLP Mercuty ct. 7.3 Cyanide, Reactive Sulfide, Reactive K6C pH solid pH measured in water (3)	Result           > 60.0           ND           ND	Umita Deg C mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/ Kg mg / Kg	Dilution Factor	Detection Limit By: 20 By: 0.75 1 0.25 0.25 0.25 0.5 0.5 0.79 0.5 8y: 0.002 By: 250 500 By:	RAC RJA S S S S S S S S S NJL	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04	Date 01-20 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-00 02-00 02-00
Metrix: QC Group 0401327-01/ SFL042 0401327-01/ SFL042 0401327-01/ ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 0401327-01/ WD432 WD432 0401327-01/ SPH04006 SPH04006 0401327-01/	SLUDGE Run Bequence VVC-2004.230.2 SB.2004.60.1 SB.200	CAS # SW846 101 SW846 131 SW846 131 SW846 131 SW846 131 SW846 131 SW846 358	Analyte C Flashpoint I/3010A/6010B ICP TCLP Arsenic Barium Cadmium Chromium Lead Selentum Silver I1/7470A CVAA TCLP Mercuty ct. 7.3 Cyankle, Reactive Sulfide, Reactive K6C pH	Result           > 60.0           ND           ND	Umita Deg C mg/L mg/L mg/L mg/L mg/L mg/L mg/ Kg mg / Kg mg / Kg	Dilution Factor	Detection Limit By: 20 By: 0.75 1 0.25 0.25 0.25 0.5 0.5 0.79 0.5 By: 0.002 By: 250 500 By:	RAC RJA S S S S S S S S S S S S S S NJL NJL 2	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04	Date 01-20 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-10 02-00 02-00 02-00
Metrix: QC Group 0401327-01/ SFL042 0401327-01/ SFL042 0401327-01/ ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 0401327-01/ ATELWS#527 0401327-01/ SPH04006 SPH04006 SPH04006 0401327-01/ X0454	SLUDGE Run Bequence VVC-2004.230.2 SB.2004.60.1 9 SB.2004.60.1 9 SB.2004.61.1 8 SB.2004.61.1 9 SB.2004.61.1 8 SB.2004.61.1 9 SB.2004.61.1 8 SB.2004.61.1 9 SB.2004.	CAS # SW848 101 SW848 131 SW848 131 SW846 131 SW846 131 SW846 131 SW846 131 SW846 368 108-48-7	Analyte C Flashpoint I/3010A/6010B ICP TCLP Arsenic Barium Cadmium Cadmium Cadmium Chromium Lead Selenium Silver I/7470A CVAA TCLP Mercuty ct. 7.3 Cyanide, Reactive Sulfide, Reactive K6C pH solid pH measured in water (3)	Result           > 60.0           ND           ND	Umita Deg C mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/ Kg mg / Kg	Dilution Factor	Detection Limit By: 20 By: 0.75 1 0.25 0.5 0.79 0.5 0.79 0.5 By: 250 500 By: 250 500 By:	RAC RJA S S S S S S S S S S S S S S NJL NJL 2	Date 01-26-04 02-16-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04	Data 01-26 02-16
Metrix: QC Group 0401327-01/ SFL042 0401327-01/ SFL042 0401327-01/ ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 0401327-01/ ATELWS#527 0401327-01/ SPH04006 SPH04006 SPH04006 0401327-01/ X0454 X0464	SLUDGE Run Bequence VVC-2004.230.2 SB.2004.60.1 9 SB.2004.60.1 9 SB.2004.61.1 8 SB.2004.61.1 9 SB.2004.61.1 8 SB.2004.61.1 8 SB.2004.61.1 8 SB.2004.61.1 8 SB.2004.61.1 8 SB.2004.61.1 8 SB.2004.61.1 8 SB.2004.61.1 8 SB.2004.61.1 8 SB.2004.61.1 8 SB.2004.2004.2004.2003.2 8 SB.2004.2004.2003.2 8 SB.2004.61.1 8 SB.2004.2004.2003.2 8 SB.2004.61.1 8 SB.2004.2004.2003.2 8 SB.2004.191.8 8 SB.2004.191.8	CAS # SW848 101 SW848 131 SW848 131 SW846 131 SW846 131 SW846 131 SW846 131 SW846 131 SW846 131 SW846 358 108-46-7 85-85-4	Analyte C Flashpoint 1/30104/6010B ICP TCLP Arsenic Barium Cadmium Cadmium Chromium Lead Selenium Silver 1/7470A CVAA TCLP Mercuty ct. 7.3 Cyanide, Reactive Sulfide, Re	Result           > 60.0           ND	Units Deg C mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/ Kg mg / Kg mg / Kg	Dilucion Factor	Detection Limit By: 20 By: 0.75 1 0.25 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.	RAC RJA S S S S S S S S S S S S S S NJL NJL 2	Date 01-28-04 02-16-04 02-16-04 02-16-04 02-16-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-02-04 01-29-04	Date 01-26 02-16 02-03 02-00 02-03 0000000000
Metrix: ( QC Group 0401327-014 SFL042 0401327-014 SFL042 0401327-014 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 ATELWS#528 0401327-014 W0432 W0432 0401327-014 SPH04006 SPH04006 SPH04006 0401327-011 X0454	SLUDGE Run Bequence VVC-2004.230.2 SB.2004.60.1 9 SB.2004.60.1 9 SB.2004.61.1 8 SB.2004.61.1 9 SB.2004.61.1 8 SB.2004.79.2 8 SB.2004.	CAS # SW848 101 SW848 131 SW848 131 SW846 131 SW846 131 SW846 131 SW846 131 SW846 368 108-48-7	Analyte C Flashpoint 1/3010A/6010B ICP TCLP Arsenic Barium Cadmium Cadmium Chromium Lead Selenium Silver 1/7470A CVAA TCLP Mercuty ct. 7.3 Cyanide, Reactive Sulfide, Re	Result           > 60.0           ND           ND	Units Deg C mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/ Kg mg / Kg mg / Kg	Diluction Factor	Detection Limit By: 20 By: 0.75 1 0.25 0.25 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.	RAC RJA S S S S S S S S S S S S S S NJL NJL 2	Date 01-28-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 02-18-04 01-29-04 01-29-04 01-29-04	01-26 02-16 02-0 02-0 02-0 02-0 02-0 02-0 02-0 02-

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Asseigni Analytical Laboratories, inc.

## **Certificate of Analysis**

Client:	CRI									
Project:	DUKE ENERGY SERVICES-NASH BOOSTER									
Order:	0401327 CRI		Receipt: 01-20-04							
Sample:	NASH BOOSTER DRUMS Collected: 01-14-04 14:00:00 By: LW			·	<u></u>	······································				
Matrix:	SLUDGE	<b>.</b>						<b>.</b>		
QC Group	Run Seguence	CAS#	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0401327-0	18	8W846 36	BOANS270C SVOCS by GC/NS TO	:LP			By:	OS		
X0454	XG.2004.101.8	118-74-1	Hexachiorobanzane	1 NO	i mg/L	1 1	10	Γ -	01-27-04	02-02-04
X0454	XG.2004.191.8	87-68-3	Hexachlorobutadiene	ND	mg/L	1 1	10		01-27-04	02-02-04
X0454	XG.2004.191.8	87-72-1	Hexachioroethane	ND	mg/L	1 1	10		01-27-04	02-02-04
X0454	XG.2004.191.8		m-Cresol & p-Cresol	15	mg/L	1 1	10		01-27-04	02-02-04
X0454	XG.2004.191.8	98-85-3	Nitrobenzene	ND	mg/L	1 1	10		01-27-04	02-02-04
X0464	XG.2004.191.8	95-48-7	o-Cresol	ND	mg/L	1	10		01-27-04	02-02-04
X0454	XG.2004.191.8	87-86-5	Pentachlorophonol	. ND	mg/L	1	100		01-27-04	02-02-04
X0454	XG.2004.191.8	110-96-1	Pyridine	i ND	mg/L	1	100		01-27-04	02-02-04
0401327-0	18	SW#46 50	30A/82608 Purgephie VOCs by (	GC/MS TCLP			By:	WCWJ		
X0449	XG.2904.148.4	75-35-4	1,1 Dichloroethylene	ND ND	mg/L	1 1	0.05	1	01-28-04	01-28-04
X0449	XG.2004.148.4	107-08-2	1.2 Dichloroethane (EDC)	ND	mg/L	1	0.05	(	01-28-04	01-28-04
X0449	XG.2004.148.4	71-43-2	Benzene	0.14	i mg/L	1	0.05		01-25-04	01-28-04
X0449	XG.2004.148.4	56-23-5	Carbon tetrachloride	ND	mg/1.	1 1	0.05		01-28-04	01-28-04
X0449	XG.2004.148.4	108-90-7	Chlorobenzene	ND	mg/L	1	0.05		01-28-04	01-28-04
X0449	XG.2004.148.4	67-80-3	Chlorofarm	ND	mg/L	1	0.05		01-28-04	01-26-04
X0449	XG.2004.148.4	78-83-3	Methyl ethyl ketone	ND	mg/L	1 1	0.25		01-28-04	01-28-04
X0449	XG.2004.148,4	127-18-4	Tetrachioroethylene	0.16	mg/L	1	0.05		01-28-04	01-28-04
X0448	XG.2004.148.4	79-01-6	Trichloroethylene	ND	; mg/L	1	0.05	••••••	01-28-04	01-28-04
X0449	XG.2004.148.4	75-01-4	Vinyl chloride	ND	mg/L	. 1	0.05	⊢ ·	01-28-04	01-28-04

Unless otherwise noted, all samples were received in acceptable condition and all tampling was performed by client or client representative. Sample result of ND indicates Not Detected, le result is less than the earnple specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Ditation Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellandous workorder information or foundes will appear below.

1 This sample was utilized for the metric spike and duplicate. Please note that the recoveries were outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

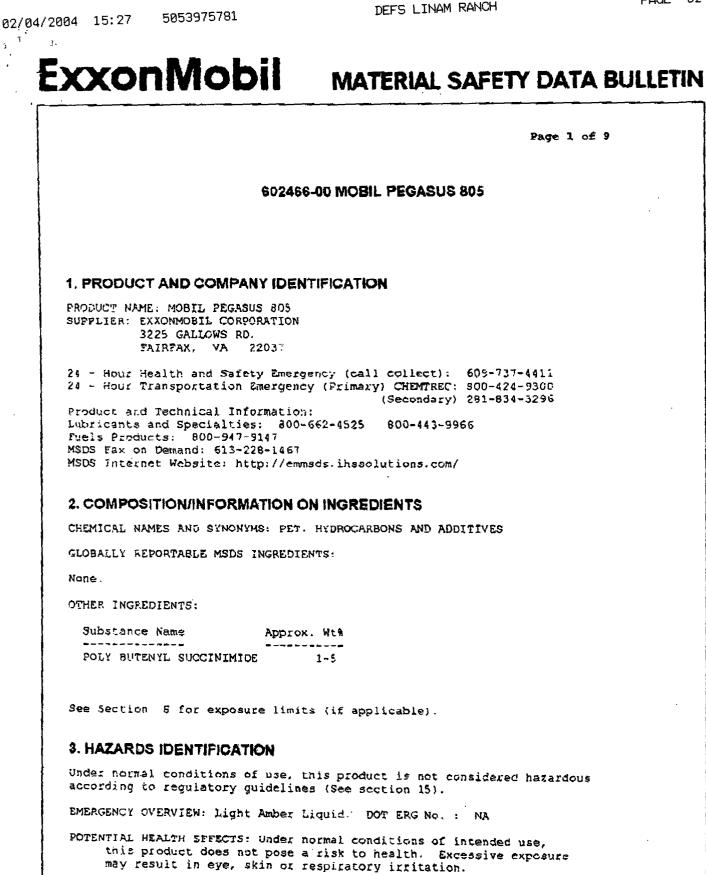
2 The pH batch was analyzed at 12:05 on 1/29/04.

MEMO: Please note that the sample cooler was received with method ice.

The TCLP Metals were subcontracted to Aqua Tech Environmental Laboratories.

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# ExxonMobil MATERIAL SAFETY DATA BULLETIN

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For further health effects/toxicological data, see Section 11.

#### 4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. (See Section 16 - Injection Injury)

INHALATION: Not expected to be a problem. However, if respiratory irritation, dizziness, neusea, or unconsciousness occurs due to excessive vapor or mist'exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation.

INGESTION: Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

#### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog. SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): > 245(473) (ASTM D-92). Flammable Limits (approx.% vol.in air) - LEL: 0.9%, UEL: 7.0% NEPA HAZARD ID: Health: O, Flammability: 1, Reactivity: Q

#### 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free number (800)424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

(Section continued next page)



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WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. PERSONAL FRECAUTIONS: See Section B

#### 7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.

SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m3 (as oil mist) - ACGIH Threshold Limit Value (TLV), 10 mg/m3 (as cil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m3 (as oil mist) - OSHA Permissible Exposure Limit (PEL)

VENTILATION: If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits. RESPIRATORY PROTECTION: If mists are generated, and/or when

ventilation is not adequate, wear approved respirator.

EYE PROTECTION: If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.

SKIN PROTECTION: Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should always be followed.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid COLOR: Light Amber ODOR: Marketable ODOR THRESHOLD-ppm: NE pH: NA BOILING FOINT C(F): > 288(550) MELTING POINT C(F): NA FLASH COINT C(F): > 245(473) (ASTM D-92) FLAMMABILITY (solids): NE AUTO FLAMMABILITY C(F): NA EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA VAPOR PRESSURE-mmHg 20 C: < 0.1 VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE RELATIVE DENSITY, 15/4 C: 0.89 SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: > 3.5 VISCOSITY AT 40 C, cSt: 130.0 VISCOSITY AT 100 C, cSt: 13.5 POUR POINT C(F): < -12(10) FREEZING POINT C(F): NE VOLATILE ORGANIC COMPOUND: NE DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only NA=NOT APPLICABLE NE-NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

### **10. STABILITY AND REACTIVITY**

STABILITY (THERMAL, LIGHT, ETC.): Stable. CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers. HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures. HAZARDOUS POLYMERIZATION: Will not occur.

# ExxonMobil MATERIAL SAFETY DATA BULLETIN

MOBIL PEGASUS 805

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#### 11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY ---

- ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- DERMAL TOXICITY (RABBITS): Fractically non-toxic (LDSO: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.
- EYE IRRITATION (RABBITS): PIEctically non-irritating. (Draize score: greater than 6 but 15 or less). ---Besed on testing of similar products and/or the components.
- SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). --- Based on testing of similar products and/or the components.
- OTHER ACUTE TOXICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.

--- SUBCHRONIC TOXICOLOGY (SUMMARY) ---

- No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).
- --- REPRODUCTIVE TOXICOLOGY (SUMMARY) ---No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.
- ---CHRONIC TOXICOLOGY (SUMMARY) ---Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For mineral base oils: Base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as Modified Ames Test, IP-346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with

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negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.

---SENSITIZATION (SUMMARY)---Not expected to be sensitizing based on tests of this product, components, or similar products.

#### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

In the absence of specific environmental data for this product, this assessment is based on information for representative products.

ICOTOXICITY: Available ectoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product.

- MOBILITY: When released into the environment, adsorption to sediment and soil will be the predominant behavior.
- PERSISTENCE AND DEGRADABILITY: This product is expected to be inherently biodegradable.
- BIOACCUMULATIVE POTENTIAL: BIOACCUMULATION is unlikely due to the very low water sclubility of this product, therefore bioavailability to equatic organisms is minimal.

#### **13. DISPOSAL CONSIDERATIONS**

- WASTE DISPOSAL: Froduct is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.
- RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

# ExxonMobil MATERIAL SAFETY DATA BULLETIN

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#### 14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

### 15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU Labeling not required.

Governmental Inventory Status: All components comply with TSCA. EINECS/ELINCS, AICS, and DSL.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (31)/312) REPORTABLE HAZARO CATEGORIES: None.

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS -----~~~~~ ZINC (ELEMENTAL ANALYSIS) (0.03%) 7440-66-6 22 PHOSPHOROUITHOIC ACID, C,O-DI 66549-42-3 22 C1-14-ALKYL ESTERS, JINC SALTS (2: 1) (ZDDP) (D.33%) --- REGULATORY LISTS SEARCHED ----1-ACGIH ALL 6-IARC 1

1-ACGIH ALL 6-IARC 1 11-TSCA 4 16-CA P65 CARC 21-LA RTK 2=ACGIH A1 7=IARC 2A 12=TSCA 5a2 17=CA P65 REPRO 22=MI 293

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#### MOBIL PEGASUS 805

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∃≓ACGIH A2	BHIARC 2B	13=T3CA 5e	19=CA RTK	23=MN RTK
4=NTP CARC	9=05HA CARC	14=TSCA 6	19-FL RTK	Z4≑NJ RTK
5-NTP SUS		15-TSCA 12b	20-IL RTK	25-PA RTK
				26=91 RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

#### **16. OTHER INFORMATION**

USE: ENGINE LUBRICANT

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### INDUSTRIAL LABEL

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. First Aid: Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapor, remove to fresh air. If ingested do not induce vomiting. If symptoms persist seek medical assistance. Read and understand the MSDS before using this product.

\*\*\*\*\*\* For Internal Use Only: MHC: 1\* 1\* 1\* 1\*, MPPEC: A, TRN: 602466-00, ELIS: 400795, CMCS97: 97D936, REQ: US - MARKETING, SAFE USE: L EHS Approval Date: 24SEP2002 \*\*\*\*\*\*\*\*\*\*

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF

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# MATERIAL SAFETY DATA BULLETIN

# **MOBIL PEGASUS 485**

"505"

1. PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME: MOBIL PEGASUS 485

SUPPLIER: EXXONMOBIL OIL CORPORATION 3225 GALLOWS RD. FAIRPAX, VA 22037

24 - Hour Health and Safety Emergency (call collect): 609-737-4411 24 - Hour Transportation Emergency (Primary) CHEMTREC: 800-424-9300 (Secondary) 281-834-3296 Product and Technical Information: 800-662-4525 MSDS Fax on Demand: 613-228-1467, other MSDS information: 856-224-4644

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

GLOBALLY REPORTABLE MSDS INGREDIENTS:

Substance Name Approx. Wt% -----SULFONIC ACIDS, PETROLEUM, 1-5 CALCIUM SALTS (SYNTHETIC) (61789-86-4)

See Section 8 for exposure limits (if applicable).

# 3. HAZARDS IDENTIFICATION

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines (See section 15).

EMERGENCY OVERVIEW: Dark Amber Liquid. DOT ERG No. : NA

POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.

For further health effects/toxicological data, see Section 11.

### **4. FIRST AID MEASURES**

- EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.
- SKIN CONTACT: Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. (See Section 16 - Injection Injury)
- INHALATION: Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation.
- INGESTION: Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

### **5. FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.
Use water to keep fire exposed containers cool. Water spray may
be used to flush spills away from exposure. Prevent runoff from
fire control or dilution from entering streams, sewers, or
drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire
fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): > 232(450) (ASTM D-92).

Flammable Limits (approx. \* vol.in air) - LEL: 0.9\*, UEL: 7.0\* NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

## 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and BPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free number (800)424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled liquid with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13. WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

ENVIRONMENTAL PRECAUTIONS: Prevent liquid from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. PERSONAL PRECAUTIONS: See Section 8

## 7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.

SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m3 (as oil mist) - ACGIH Threshold Limit Value (TLV), 10 mg/m3 (as oil mist) ~ ACGIH Short Term Exposure Limit (STEL), 5 mg/m3 (as oil mist) - OSHA Permissible Exposure Limit (PEL)

VENTILATION: If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.

- RESPIRATORY PROTECTION: If mists are generated, and/or when ventilation is not adequate, wear approved respirator.
- EYE PROTECTION: If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.
- SKIN PROTECTION: Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should always be followed.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid COLOR: Dark Amber ODOR: Mild ODOR THRESHOLD-ppm: NE DH: NA BOILING POINT C(F): > 288(550) MELTING POINT C(F) : NA FLASH POINT C(F): > 232(450) (ASTM D-92) FLAMMABILITY (solids): NE AUTO FLAMMABILITY: NA EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA VAPOR PRESSURE-mmHg 20 C: < 0.1 VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE RELATIVE DENSITY, 15/4 C: 0.887 SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: > 3.5 VISCOSITY AT 40 C. cSt: 126.0 VISCOSITY AT 100 C, CSt: 13.3 POUR POINT C(F): < -15(5) FREEZING POINT C(F): NE VOLATILE ORGANIC COMPOUND: NE DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only NA=NOT APPLICABLE NE=NOT BSTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

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# **10. STABILITY AND REACTIVITY**

STABILITY (THERMAL, LIGHT, ETC.): Stable. CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition. INCOMPATIBILITY (MATERIALS TO AVOID) : Strong oxidizers. HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

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## 11. TOXICOLOGICAL DATA

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---ACUTE TOXICOLOGY---

- ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.
- EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
- SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.
- OTHER ACUTE TOXICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.

---SUBCHRONIC TOXICOLOGY (SUMMARY) ---

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).

#### ---REPRODUCTIVE TOXICOLOGY (SUMMARY) ---

No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.

--- CHRONIC TOXICOLOGY (SUMMARY) ---

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For mineral base oils: Base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as Modified Ames Test, IP-346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures. ---SENSITIZATION (SUMMARY) ---

Not expected to be sensitizing based on tests of this product, components, or similar products.

### **12. ECOLOGICAL INFORMATION**

ENVIRONMENTAL FATE AND EFFECTS:

In the absence of specific environmental data for this product, this assessment is based on information for representative products. When released into the environment, adsorption to sediment and soil will be the predominant behavior. Available ecotoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product. Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal. This product is expected to be inherently biodegradable.

### **13. DISPOSAL CONSIDERATIONS**

- WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.
- RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

#### **14. TRANSPORT INFORMATION**

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

### **15. REGULATORY INFORMATION**

- US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.
- EU Labeling: Product is not dangerous as defined by the Buropean Union Dangerous Substances/Preparations Directives. EU labeling not required.
- Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL.
- U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following produc CHEMICAL NAME	st ingredients ar	e cited on the CAS NUMBER	
ZINC (BLEMENTAL ANA)	LYSIS) (<0.03%)	7440-66-6	22
PHOSPHORODITHOIC AC	ID, 0,0-DI	68649-42-3	22
C1-14-ALKYL ESTERS, 1) (ZDDP) (0.26%)	ZINC SALTS (2:		
	REGULATORY L	ISTS SEARCHED	*
1=ACGIH ALL 6=IARC	1 11-TSCA 4	16=CA P65 (	CARC 21=LA RTK
2=ACGIH A1 7=IARC	2A 12=TSCA 5a	2 17-CA P65 1	RBPRO 22=MI 293
3=ACGIH A2 8=IARC	2B 13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC 9=OSHA	CARC 14=TSCA 6	19=FL RTK	24=NJ RTK
5=NTP SUS 10=OSHA	Z 15=TSCA 12	b 20=IL RTK	25=PA RTK
			26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

## **16. OTHER INFORMATION**

USE: NATURAL GAS ENGINE OIL

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### INDUSTRIAL LABEL

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. First Aid: Wash skin with scap and water. Flush eyes with water. If overcome by fumes or vapor, remove to fresh air. If ingested do not induce vomiting. If symptoms persist seek medical assistance. Read and understand the MSDS before using this product.

Information given herein is offered in good faith as accurate, but without quarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. Exxon Mobil Corporation and its affiliated companies assume no responsibility for accuracy of information unless the document is the most current available from an official ExxonMobil distribution system. Exxon Mobil Corporation and its affiliated companies neither represent nor warrant that the format, content or product formulas

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PAGE 11

### \*END OF DOCUMENT\*

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DEFS LINAM RANCH

9155639651

02-08-2003 09:52

From-Ashland Distribution Co-Midiand Texas

MATERIAL SAFETY DATA SHEET

Page 001 Date Prepared: 02/25/02 Date Printed: 11/19/02 NSDS No: 301.0379181-001.001

COMPRESSOR ENGINE COOLANT 70-30

Droen

#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1.

Material Identity Product Name: COMPRESSOR ENGINE COOLANT 70-30 SAP Material No: 6601334 OOD 008 General or Generic ID: SOLVENT ELEND

Company

Ashlana Ashland Distribution Co. & Ashland Specialty Chemical Co. P. O. Box 2219 Columbus, OH 43216 614-790-3333 Emergency Telephone Number: 1-800-ASHLAND (1-800-274-5263) 24 hours everyday

Regulatory Information Number: 1-800-325-3751

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s) CAS Number % (by volume) WATER 7732-18-5 68.0-72.0 29.0- 29.0 1.0- 3.2 ETHYLENB GLYCOL 107-21-1 1.0-CORRATE 28 AS

#### HAZARDS IDENTIFICATION 3.

#### Potential Health Effects

#### Еув

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

#### Skin

Can cause severe skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Although rare, skin contact with ethylene glycol may cause allergic skin reaction (delayed skin rash which may be followed by Distering, scaling and other skin effects). Passage of this material into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

Swallowing Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Liver, kidney and brain damage in humans has resulted from swallowing lethal or near-lethal amounts of ethylene glycol.

#### Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Continued on next page

02/04/2004 15:35 5053975781

From-Ashland Distribution Co-Midland Texas

DEFS LINAM RANCH

9155638651

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02-05-2003 09:52

#### MATERIAL SAFETY DATA SHEET

Page 002 Date Prepared: 02/25/02 Date Printed: 11/19/02 MSDS No: 301.0379181~001.001

#### COMPRESSOR ENGINE COOLANT 70-30

#### Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), cough, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, involuntary eye movement, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), lung edema (fluid buildup in the lung tissue), kidney damage, liver damage, convulsions, coma, and death.

#### Target Organ Effects

Overexposure to this material (or its components) has been suggested as a cause Overexposure to this material (of its components) has been suggested as a cause of the following effects in laboratory animals: reproductive effects, liver damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: kidney damage, liver damage.

#### Developmental Information

Ethylene glycol has caused birth defects in animal studies at high oral doses. However, it did not cause harm to the pregnant animal or to the fetus when applied to the skin of the pregnant animal.

#### Cancer Information

This material is not expected to cause cancer in humans since it did not cause cancer in laboratory animals. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Realth Administration.

#### Jther Health Effects

#### No data

Primary Route(s) of Entry Inhalation, Skin absorption, Skin contact, Syc contact, Ingestion - Industrial products are not meant to be swallowed.

#### 4. FIRST AID MEASURES

#### Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical

#### Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

#### Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual

Continued on next page

## 02/04/2004 15:35

5053975781 From-Ashland Distribution Co-Midiard Texas

## DEFS LINAM RANCH 9155639651

02-06-2003 09:52

#### MATERIAL SAFETY DATA SHEET

Page 003 Date Preparad: 02/25/02 Date Printed: 11/19/02 MSDS No: 301.0379181-001.001

### COMPRESSOR ENGINE COOLANT 70-30

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

#### Note to Physicians

to Physicians This product contains ethylene glycol. Ethanol decreases the metabolism of athylene glycol to toxic metabolites. Ethanol ahould be administered as soon at possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical dare will be delayed several hours, give the patient three to four l-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body. Effoots of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central hervous system effects (transient exhilatation, nausca, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachyponia, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and creatining followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, adthaeline conditions), liver, kidney, central nervous system. Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anenias. disease, coronary artery disease or anenias.

#### FIRE FIGHTING MEASURES 5.

Flash Point

200.0 F (93.3 c) 100 >

Explosive Limit No data

Autoignition Temperature No data

Hazardous Products of Combustion Hay form: carbon dioxide and carbon monoxide, various hydrocarbons.

#### Fire and Explosion Hazards

Vapors are heavier than air and may travel along the ground or may be moved by Ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (sven empty) because product (even just residue) can ignite explosively.

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5053975781 02/04/2004 15:35

From-Ashland Distribution Co-Midland Texas

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02-05-2003 09:53

MATERIAL SAFETY DATA SHEET

Page 004 Date Prepared: 02/25/02 Date Printed: 11/19/02 MEDS No: 301.0379181-001.001

#### COMPRESSOR ENGINE COOLANT 70-30

Extinguishing Media alcohol foam, water fog, carbon disxide, dry chemical.

Fire Fighting Instructions wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating Health - 1, Flammability - 1, Reactivity - 0

#### ACCIDENTAL RELEASE MEASURES 6.

#### Small Spill

Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

#### Large Spill

Prevent run-off to sowers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks).

#### HANDLING AND STORAGE 7.

#### Handling

lling Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, And/or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when material is transferred. Warning. Sudder, release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum sources. Published "autoignition" or "ignition" temperature values cannot be treated as sare operating temperatures in Chemical processes without analysis solutes. Fublished "Autoignition" of "ignition" temperature values cannot be treated as sare operating temperatures in Chemical processes without analysis of the actual process Conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

#### Storage

Do not store near extreme heat, open flame, or sources of ignition.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

#### **Eye Protection**

Chemical splash goggles and face shield (8" min.) in compliance with OSEA regulations are advised; however, OSEA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

Continued on next page

PAGE 05 F-783

02/04/2004 15:35 5053975781 PAGE 06 DEFS LINAM RANCH T-322 P.005/008 F-783 From-Ashland Distribution Co-Midland Texas 9155639651 02-08-2003 09:53 MATERIAL SAFETY DATA SHEET Page 005 Date Prepared: 02/25/02 Date Printed: 11/19/02 MSDS No: 301.0379181-001.001 COMPRESSOR ENGINE COOLANT 70-30 Skin Protection Wear impervious gloves (consult your safety equipment supplier). To provent skin contact, wear impervious full-body protective clothing. **Respiratory Protections** If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/NSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see Your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure. Engineering Controls Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). Exposure Guidelines Component WATER (7732-18-5) No exposure limits established ETHYLENB GLYCOL (107-21-1) OSHA VPEL 50.000 ppm - Ceiling ACGIH TLV 100.000 mg/m3 - Ceiling as an aerosol CORRATE 28 AS No exposure limits established PHYSICAL AND CHEMICAL PROPERTIES 9. Boiling Point (for component) 212.0 F (100.0 C) Vapor Pressure (for component) 27.000 mmHg Specific Vapor Density > 1.000 3 AIR=1 O AIR=1 Specific Gravity 1.007 - 1.049 @ 68.00 P Liquid Density 8.560 lbs/gal @ 68.00 F 1.007 - 1.049 kg/1 @ 20.00 C Percent Volatiles No data Evaporation Rate SLOWER THAN ETHYL ETHER Continued on next page

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From-Ash!and Distribution Co-Midland Texas

DEFS LINAM RANCH 9155639651

F-783 T-322 P.005/008

#### MATERIAL SAFETY DATA SHEET

Page 006 Date Prepared: 02/25/02 Date Printed: 11/19/02 MSDS No: 301.0379181-001.001

COMPRESSOR ENGINE COOLANT 70-30

Appearance CLEAR AND PARTICLE FREE

State

02/04/2004

02-DE-2003 CB:54

LIQUID

Physical Form HOMOGENEOUS SOLUTION

Color

WATER WHITE

Ödor

No data

Ηq

No data

10. STABILITY AND REACTIVITY

Hazardous Polymerization Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Lhemical Stability Stable.

Incompatibility Avoid contact with: strong oxidizing agents.

# 11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

#### DISPOSAL CONSIDERATION 13.

Waste Management Information

te Management Information Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems guidance, contact your State Water Board or Regional Office of the EPA. For waste stream reduction, contact Ashland Distribution Company, IC&S Continued on next page

04/2004 0 <b>2</b> *06-2003	15:35 09:54	5053975781 From-Ashland Distribution Co-W	DEFS LINAM RANCH lidiand Tex25 9155558551	T-322	P.007/008	PAGE F-783	08	

Page 007 Date Prepared: 02/25/02 Date Printed: 11/19/02 MSDS No: 301.0379181-001.001

## COMPRESSOR ENGINE CODLANT 70-30

#### 14. TRANSPORT INFORMATION

02/04/

DOT Information - 49 CFR 172.101 DOT Description: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., 8, UN3266, I

Container/Mode: 55 GAL DRUK/TRUCK PACKAGE

NOS Component: SODIVM HYDROKIDE

RQ (Reportable Quantity) - 49 CFR 172.101 Product Quantity (1bs) Component

16038 ETHYLENE GLYCOL

#### 15. REGULATORY INFORMATION

US Federal Regulations TSCA (Toxic Substances Control Act) Status TSCA (UNITED STATES) The intentional ingredients of this product are listed. CERCLA RO - 40 CFR 302.4(a) Component RQ (1bs) 5000 ETHYLENE GLYCOL SARA 302 Components - 40 CFR 355 Appendix A Not applicable Section 311/312 Hazard Class - 40 CPR 370.2 Immediate(X) Fressure() Delayed(X) Fire(X) Reactive() Sudden Release of Fressure( SARA 313 Components - 40 CFR 372-65 Section 313 Component(s) CAS Number ETHYLENE GLYCOL 107-21-1 28.84 OSHA Process Safety Nanagement 29 CFR 1910 None listed EPA Accidental Release Prevention 40 CFR 68 None listed International Regulations Inventory Status Not determined State and Local Regulations California Proposition 65 The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1985: This product contains the following substance(s) known to the state of California to cause cancer. 1,4-DIOXANE ETHYLSNE OXIDE ACETALDEHYDE

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02/04/2004	15:35	5053975781	DEFS	LINAM RANCH			PAGE
02/04/2004	09:55	From-Ashland Distribution Co-Midland Texa	21	9155638651	T-322	P.003/808	F-783

Page 008 Date Prepared: 02/25/02 Date Printed: 11/19/02 MSDS No: 301.0379181-001.001

107-21-1

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#### COMPRESSOR ENGINE COOLANT 70-30

The following statement is made in order to comply with the California Bafe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause reproductive harm. ETHYLENE OXIDE

New Jersey RTK Label Information ETHYLENE GLYCOL

Pennsylvania RTK Label Information 1,2-ETHANEDIOL 107-21-1

#### 16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>Eistrict II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-138 Revised June 10, 2003

> Submit Original Plus 1 Copy to Appropriate District Office

# **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

	4. Generator Duke Energy Field Services, LP				
1. RCRA Exempt:       Non-Exempt:       X         □Verbal Approval Received:       Yes       No	5. Originating Site Magnum Booster				
2. Management Facility Destination Controlled Recovery Incorporated	6. Transporter Controlled Recovery Inc.				
3. Address of Facility Operator P.O. Box 388, Hobbs, New Mexico	8. State New Mexico				
7. Location of Material (Street Address or ULSTR) Magnum Booster, Section 9, Township 20S, Range 29E, approximately 2 miles northwest of Loco Hills, New Mexico in Eddy County.					
<ul> <li>9. <u>Circle One</u>:         <ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> </ul> </li> </ul>	ecessary chemical analysis to PROVE the				
All transporters must certify the wastes delivered are only those consigned for transp	port.				
<ul> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Ref. 02-26-04</li> <li>RCRA non-exempt, non-hazardous dirt. See attached analytical report.</li> </ul>	Dort.				
This approval is for one time. Estimated Volume 1 cy Known Volume (to be entered by the operator at the e	end of the raul)				
SIGNATURE Waste Management Facility Authorized Agent TITLE: <u>Rep.</u>	DATE: <u>02/26/04</u>				
TYPE OR PRINT NAME:Kim_Flowers TELEP	HONE NO. 393-1079 M				
E-MAIL ADDRESS <u>david@crihobbs.com</u>	0 M Ø				
(This space for State Use)					
APPROVED BY TITLE: ENVIRO E	DATE: Z.ZT.OA				
APPROVED BY: Monty 7th . TITLE: Environment					

DUKE ENERGY FIELD SERVICES 3300 North A Street Building 7 Midland, TX 79705

432 620 4000

February 24, 2004

Field Services

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Dave Parsons Controlled Recovery Inc. P.O. Box 88 Hobbs, NM 88241

RE: Certificate of Waste Status and Request for Approval to Accept Solid Waste Duke Energy Field Services, LP Magnum Booster

Dear Dave:

Duke Energy Field Service, LP (DEFS) requests approval to dispose of soils generated by cleanup around equipment at the Magnum Booster site. Please find enclosed the following:

- Certificate of Waste Status
- Request for Approval to Accept Solid Waste (NMOCD C-138)
- Laboratory Analytical

DEFS appreciates your consideration of this request and understands that you will seek NMOCD approval of this request. Please send a copy of the final approval forms to my attention at the following address (please note new address).

Lynn Ward Duke Energy Field Services, LP 10 Desta Dr., Suite 400-W Midland, TX 79705

If you have any questions regarding this request, please call me at 432/620-4207.

Sincerely, Duke Energy Field Services, LP

MM nn Ward

Sr. Environmental Specialist Western Division

Cc: G. Kardos R. Counts K. Char-Kimura File 4.1.9

CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"
COMPANY/GENERATOR Duke Energy Field Services ADDRESS 10 Desta Dr., Suite 400-W, Midlard, TX 79705
ADDRESS 10 Desta Dr., Suite 400-W, Midland TX 79705
GENERATING SITE Magnum Bonster
COUNTY Eddy_STATE_MM_
TYPE OF WASTE Non - has Non - exempt
ESTIMATED VOLUME / cy. yo
GENERATING PROCESS <u>Cleanup of Contaminated</u>
soils abound booster site
REMARKS see attached analytical
NMOCD FACILITY CRI
TRUCKING COMPANY CRI
ESTIMATED VOLUME / cy, yd GENERATING PROCESS clesnup of contaminated soils around booster site REMARKS see attached analytical NMOCD FACILITY CRT

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT in was SIGNATU NAME RINT Dr. ADDRESS 10 79705 midlas DATE

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	4301 Mas		Albuquerque, New Mex	25 • (915) 5	93-6000 •	FAX (S	15) 593-76	320		₽
	127 Fasta	ate Drive. 21	2-C • Los Alamos, New	Mexico 8754	4 • (505)	662-25	58			
	127 20018						-схрына		CDG95	
						B	analyte del			lank
	<b>CD</b> 1					E		ult is est		
	CRI atin: DAVID PARSO	NC				<u>H</u>			hold time	
	BOX 388	145				N S		ubcontra	nd compou	
	HOBBS	NM	88241			1-9	••	see foob		
			Assolgal Analytical I Certificate O						sı	ANDARD
Client: Project: Order: Sample: Matrix:	CRI MAGNUM-DUKE 0402016 CRI MAGNUM/DRUM SOIL	01 Re	colpt: 02-02-04	Wilson ( Collected: 01-27	11 - 1 P. Biana Prosedo 7-04 11:00:00			vatories, tru		
QC Grouj		CAS #	Analyte	Result	Units	Dilution Factor	Petection Limit	Code		Run D <b>ato</b>
0402016-0	MA	SW846 1010					By:	RAC		
SFLASH-04	4-05 WC.2004.919.4		Flashpoint	>60.0	Deg C	1	20	<u> </u>	02-03-04	92-03-04
0402018-0	01A	SW848 Soct.	7.3				By:	NJL		
W0432	WC.2004.280.6	57-12-5	Cyanide, Reactive	ND	mg/Kg	1	250	}	02-02-04	02-03-04
W0432	WC.2004.278.5	! <u></u>	Sulfide, Reactive	ND	mg/Kg	1	500	<u> </u>	02-02-04	02-03-06
0402016-	01A	SW846-80460	;				By:	NJL		
SPH04007	WC.2004.275.5		рН	7.3	units	1	0.1	1	02-02-04	
SPH04007	WC.2004,275.5		solid pH measured in water @	20.9	deg C	1	0		02-02-04	02-02-04
0402016-	01B	SW846 1311/3	010A/8010B ICP TCLP				By:	KDW		
M04184	NT.2004.280.18	7440-38-2	Arsenic	ND	. mg/L	5	0.2		02-10-04	02-12-04
M04164	MT.2004.280.18	7440-39-3	Barlum	ND	mg/L	5	0.2		02-10-04	02-12-04
										02-12-04
M04184	MT.2004.280.18	7440-43-8	Cadmium	ND	mg/L	5	0.02		02-10-04	
M04184	MT,2004,280.18 MT.2004.280.18	7440-43-8 7440-47-3	Cadmium Chromium	ND ND	mg/L mg/L	5 5	0.02		02-10-04	02-12-04
M04184 M04184	MT.2004.280.18 MT.2004.280.18 MT.2004.280.27	7440-43-8 7440-47-3 7439-92-1	Cadmium Chromium Lead	ND ND ND	mg/L mg/L mg/L	5 5 5	0.02 0.02 0.1		02-10-04 02-10-04	02-12-04 02-12-04
MC4184 MC4184 MC4184	MT.2004.280.18 MT.2004.280.18 MT.2004.280.27 MT.2004.280.27	7440-43-8 7440-47-3 7439-92-1 7782-49-2	Cadmium Chromium Lead Selenium	ND ND ND ND	mg/L mg/L mg/L mg/L	5 5 5 5	0.02 0.02 0.1 0.05		02-10-04 02-10-04 02-10-04	02-12-04 02-12-04 02-12-04
NC4184 NC4184 NC4184 NC4184	MT.2004.280.18 MT.2004.280.18 MT.2004.280.27 MT.2004.280.18 MT.2004.280.18	7440-43-8 7440-47-3 7438-92-1 7782-49-2 7440-22-4	Cadmium Chromium Lead Selenium Silver	ND ND ND ND ND	mg/L mg/L mg/L	5 5 5	0.02 0.02 0.1 0.05 0.04		02-10-04 02-10-04	02-12-04 02-12-04
M04184 M04184 M04184 M04184 M04184 D402016-4	MT.2004.280.19 MT.2004.280.18 MT.2004.280.27 MT.2004.280.18 MT.2004.280.18 MT.2004.280.18	7440-43-8 7440-47-3 7439-92-1 7782-49-2 7440-22-4 8W846 1311/	Cadmium Chromium Lead Sislenium Silver 3510B/8270C SVOCe by GC/I	ND ND ND ND ND ND	: mg/L mg/L mg/L mg/L mg/L	5 5 5 5 5	0.02 0.02 0.1 0.05 0.04 By:		02-10-04 02-10-04 02-10-04 02-10-04	02-12-04 02-12-04 02-12-04 02-12-04
M04184 M04184 M04184 M04184 0402016-4 X0471	MT.2004.280.19 MT.2004.280.18 MT.2004.280.27 MT.2004.280.18 MT.2004.280.18 MT.2004.280.18 XG.2004.257.2	7440-43-8 7440-47-3 7438-92-1 7782-48-2 7440-22-4 8W845 1311// 106-46-7	Cadmium Chromium Lead Selenium Silver 1510B/8270C SVOCs by GC/1	ND ND ND ND ND ND ND ND	mg/L mg/L mg/L mg/L mg/L	5 5 5 5 5	0.02 0.02 0.1 0.05 0.04 By: 0.001		02-10-04 02-10-04 02-10-04 02-10-04 02-11-04	02-12-04 02-12-04 02-12-04 02-12-04 02-12-04
M04184 M04184 M04184 M04184 M04184 D402016- X0471 X0471	MT.2004.280.18 MT.2004.280.18 MT.2004.280.27 MT.2004.280.18 MT.2004.280.18 MT.2004.280.18 COLB XG.2004.257.2 XG.2004.257.2	7440-43-8 7440-47-3 7438-92-1 7782-49-2 7440-22-4 8 <b>W846 1311/</b> 106-46-7 95-85-4	Cadmium Chromium Lead Selenium Silver 3510B/8270C SVOCs by SC/II 1,4-Dichlorobenzene 2,4,5-Trichlorophenol	ND ND ND ND ND ND ND ND	i mg/L mg/L mg/L mg/L mg/L mg/L	5 5 5 5 5 1	0.02 0.02 0.1 0.05 0.04 By: 0.001 0.01		02-10-04 02-10-04 02-10-04 02-10-04 02-11-04 02-11-04	02-12-04 02-12-04 02-12-04 02-12-04 02-12-04 02-12-04
M04184 M04184 M04184 M04184 M04184 D4020164 X0471 X0471 X0471 X0471	MT,2004,280.18 MT,2004,280.18 MT,2004,280.27 MT,2004,280.18 MT,2004,280.18 MT,2004,287.18 XG,2004,257.2 XG,2004,257.2 XG,2004,257.2	7440-43-8 7440-47-3 7439-92-1 7782-49-2 7440-22-4 8W845 1311/7 106-46-7 95-85-4 88-08-2	Cadmium Chromium Lead Selenium Silver 1510B/8270C SVOCe by GC/R 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	ND ND ND ND ND ND ND ND ND ND	i mg/L mg/L mg/L mg/L mg/L mg/L mg/L	5 5 5 5 1 1	0.02 0.02 0.1 0.05 0.04 By: 0.001 0.01 0.01		02-10-04 02-10-04 02-10-04 02-10-04 02-11-04 02-11-04 02-11-04	02-12-04 02-12-04 02-12-04 02-12-04 02-12-04 02-12-04 02-12-04
M04184 M04184 M04184 M04184 M04184 D402016- X0471 X0471	MT.2004.280.18 MT.2004.280.18 MT.2004.280.27 MT.2004.280.18 MT.2004.280.18 MT.2004.280.18 COLB XG.2004.257.2 XG.2004.257.2	7440-43-8 7440-47-3 7438-92-1 7782-49-2 7440-22-4 8 <b>W846 1311/</b> 106-46-7 95-85-4	Cadmium Chromium Lead Selenium Silver 3510B/8270C SVOCs by SC/II 1,4-Dichlorobenzene 2,4,5-Trichlorophenol	ND ND ND ND ND ND ND ND	i mg/L mg/L mg/L mg/L mg/L mg/L	5 5 5 5 5 1	0.02 0.02 0.1 0.05 0.04 By: 0.001 0.01		02-10-04 02-10-04 02-10-04 02-10-04 02-11-04 02-11-04	02-12-04 02-12-04 02-12-04 02-12-04 02-12-04 02-12-04 02-12-04



SQLCoyote: Reports 1.0.0310221500XX

Report Date 2/20/2004 9:13:53 AM

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Assaigai Analytical Laboratories, Inc.

# **Certificate of Analysis**

Project:	CRI MAGNUM-DUKE 0402016 CRM		IELD SERVICES Lecelot: 02-02-04	,						
Sample: Matrix:	MAGNUM/ DRUM SOIL	<u></u> , <u>**.</u>		Collected: 01-2	7-04 11:00:0	00 By: L	P			
QC Group	Run Sequence	CAS #	Anaiytə	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
6402016-01	8	SW848 1311	35108/8270C SVOCs by GCA	AS TOLP			By:	DS		
X0471	XG.2004.257.2	67-72-1	Hexechlorosthane	ND	mg/L	] 1	0.001		02-11-04	02-12-0
X0471	XG.2004.257.2	1	m-Cresot & p-Cresol	ND	mg/L	1	0.001		02-11-04	02-12-0
X0471	XG.2004.267.2	98-35-3	Nitrobenzene	ND	mg/L	1	0.001		02-11-04	02-12-0
X0471	XG.2004.267.2	05-49-7	o-Crecol	: ND	ma/L	1	0.001	[	02-11-04	02-12-0
X0471	XG.2004.257.2	87-86-5	Pentachlorophenol	I ND	mg/L	1 1	0.01		02-11-04	02-12-0
X0471	X9.2004.267.2	110-00-1	Pyridine	ND	mg/L	1	0.01		02-11-04	02-12-0
0402016-01	B	SW846 1311	TATEA CVAA TCLP				By:	DAH		
M04196	MT.2004.276.12	7438-87-6	Morcury	ND	mg/L	1	0.0002		02-11-04	02-11-0
0402016-01	B	81846 1311	/0280B Purgsable VOCs by G	C/MS TCLP			By:	CMJ		
X0448	XG.2004.292.9	75-35-4	1,1 Dichloroethylene	ND	mg/L	1 1	0.001		02-12-04	02-12-0
X0446	XG.2004.282.8	107-06-2	1,2 Dichloroethane (EDC)	NP	mg/L	1	0.001		02-12-04	02-12-0
X0448	XG.2004.282.9	71-43-2	Bonzené	ND	mg/L	1	0.001		02-12-04	02-12-0
X0446	XG.2004.292.9	68-23-5	Carbon tetrachloride	ND	mg/L	1	0.001		02-12-04	02-12-0
X0446	XG.2004.292.9	108-90-7	Chlorobenzene	ND	mg/L	1	0.001		02-12-04	02-12-0
X0448	XG.2004.292.9	67-68-3	Chloroform	ND	mg/L	1	0.001		02-12-04	02-12-0
X0445	XG.2004.292.9	78-93-3	Methyl ethyl ketone	ND	mg/L	1 1	0.005		02-12-04	02-12-0
X0446	XG.2004.292,9	127-18-4	Tetrachloroethylene	ND	1 mg/L	1 1	D.001		02-12-04	02-12-0
X0445	XG.2004.292.9	78-01-6	Trichloraethylene	ND	mg/L	1 1	0.001	(	02-12-04	02-12-0
X0446 A	XG.2004.292.9	76-01-4	Vinyl chloride	0.002	mg/L	1	0.001	в "]	02-12-04	02-12-0

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND Indicates Not Detected, le result is less than the sample specific Detection Limit. Sample apacific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the lams tested. Any miscallaneous workorder information or foonotes will appear below.

pH was analyzed at 14:25 on 2/2/04.

MEMO: Please note that the sample cooler was received at 16 degrees Celcius.

Page 2 of 2

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Report Date 2/20/2004 9:13:54 AM

FEB 20 (	04 09:25 TO-615053933615	FROM-ASSAIGAI LABS	T-449 P. 03/03 F-702
4100-001 Rushwad N.E. ALGUDUERQUE, NEW HEXICO ST109 (901) 946-8944 (901) 946-8944 3322 WEDGEWOOD EL PARG TEAM PASS (011) 519-6000 127 EAM TRACE OF 17945 (103 ALANDU, ART BEACO 127 EAM TRACE OF 17945 (103 ALANDU, ART BEACO 128 EAM TRACE OF 17945			D     Receive by C     Model       Summing to C     Summing to C     Model       Summing to C     Summing to C     Model       SO M     Reson     Model       Stored over 34 days in domining iten       Stored over 34 days in domining iten       Returned to custome
1			
Chain of Custody Record	Lite. 5 Project Hamagar (Correct Led P. 1. Lebel CA Telephrene Hu. 432/620-416 Z Fac No. 432/626-416 Z Eampires : legentrae, Liga d lad d Eampires : legentrae, Liga d lad d Liga d lad d l		Revelved by: Elinquished sy: Symmers
<b>IES, INC.</b>	chan 2300 N. H. SI, Blds. 7 Man 3300 N. H. SI, Blds. 7 Chysnel 20 Midlard, TX 79 to E. Proper Hunse Winner, 27 and 110 Connect Purchan Oran Jagsura / 100 Connect Purchan Oran Jagsura / 100 11 E. Pagsura / 100 101		Ratinguintradies Processing and the processing of the processing o

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District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 RECEIVED

FEB 1 1 2004

**OIL CONSERVATION** 

DIVISION

--- Form C-138 Revised June 10, 2003

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Submit Original Plus 1 Copy to Appropriate District Office

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## **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: Non-Exempt: X	4. Generator Chemplex, L.C.		
□Verbal Approval Received: Yes □ No X	5. Originating Site Snyder, TX		
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter		
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State Texas		
7. Location of Material (Street Address or ULSTR) Snyder, TX, Scurry County			
9. <u>Circle One</u> :	<b>.</b>		
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste cla approved	ecessary chemical analysis to PROVE the		
All transporters must certify the wastes delivered are only those consigned for transp	port.		
BRIEF DESCRIPTION OF MATERIAL:	3-123456		
RE: 02-05-04	83031-123456J89		

Plexslick 982C, Plexslick 967, Plexslick 961

Friction reducer for brines or acid.

Enclosed is non-exempt certificate of waste status and MSDS sheets.

This approval is for one time.

Estimated Volume 13 totes. Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE TITLE: <u>Rep</u> DATE: 02-05-04 Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: <u>Kim Flowers</u> TELEPHONE NO. (505)393-1079

## E-MAIL ADDRESS david@crihobbs.com

(This space for State Use)	
APPROVED BY: CON Johnson	TITLE: ENVIRO ENGR DATE: 2.6.04
APPROVED BY: Martyn 225-	TITLE: Environmente Colagist DATE: 2-13-04

Feb 12 04 11:25a C R 1

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p.2

p.2

#### CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR Chemplex, L.C.

ADDRESS P.O. Box 1071, Snyder, TX 79550

GENERATING SITE snyder Yard

COUNTY SCUTTY STATE TX

TYPE OF WASTE Oilfield Polymer

ESTIMATED VOLUME 4000 gallons

GENERATING PROCESS <u>Unused chemical returned from jobs</u>

may contain incidental rain water and or dirt.

REMARKS

\*\*\*

NMOCD FACILITY controlled Recovery, Inc.

TRUCKING COMPANY

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Eavirunmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-bizzardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT	BC	+at	<u>)</u>	
NAME_	SIGNATUR	E - C	Auton	
ADDRESS	PRINTED			
	Mand.		79706	
DATE	2/13/0	4	· · · · · · · · · · · · · · · · · · ·	



# Material Safety Data Sheet

· NFPA	Protective Clothing	DOT
		$\bigotimes$

Common/Trade nam	Plexslick 982C	ÇI#	Not applicable.
Synonyuis	, Not avallable.	TSCA	TSCA B(b) Inventory: All products
Chemical same	Cationic Polyacrylamide emuision		ilsted.
Chemical formula	Not applicable.	CAS#	Mixture.
Chemical family	Aliphatic amide	Code	Mai BOTT Regulatori Canalgority Flaggerine (Mil) 4554582
Supplier	Chempler, L.C., R.G. See 1977	Molecular weight	Not applicable.
	508 CR 137 Bryan, Ta 71866 (1110) 173-7246	Manufacturer	Chemplex, L.C.
Material usa5	Friction reducer for brines or acid.		P.O. Box 1071 506 CR 137 Snyder, Tx 79650 (915) 573-7298

Eye contact	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention. Flush with plenty of water for at least 15 minutes, accessionally itsuig the upper and lower eyeites.
Skin contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive scop. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Hazardous skin contact	Wash with a disinfectant scop and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Slight inhalation	Allow the victim to rest in a well ventilated area. Seek Immediate medical attention.
Hazardous inhaistion	Evacuate the victim to a safe area as such as possible. Loosen tight clothing such as a collar, tie, belt or walatband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Slight ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen light clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Hazardous Ingestion	Not available.

PAGE 1

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CHEMBLE FULLADE : BIE B

JAN-27-2004 TUE 10:27 AM FROM: NORM DECON SERVICES

Section II. Hazardou	s Ingredier	its +	Plexslick 982C	page 2/5
Name	CAS#	% by Weight	TLV/PEL	LC <sub>N</sub> /LD <sub>70</sub>
1) No hazardous ingradient				

	sice) Date		
Physical state and	Milky liquid.	Indor	Slight hydrogenan all
pH (1% solu/water)	Silghtly acidic	Taste	Not available.
Odor threshold	Not available.	Color	White. Off-white.
Volatility	Not available.		
Melting point	Not available.		and a second second second second second second second second second second second second second second second
Boiling point	>212"F		
Specific gravity	1.04 (Water = 1)		
Vapor density	Not available.		
Vapor pressure	Not evallable.		
Evaporation rate	Not available.		
Viscosity	Not available.		
LogK.	The product is much more soluble in all.		
Ionicity (surface notive agant	) Gationic		
Critical temperature	Not avaliable.		· · · · · · · · · · · · · · · · · · ·
Instability temperature	Not available.		
Conditions of instability	Not svailable.		
Dispersion properties	Not available		
Solubility	Solubility in water limited by viscosity.		

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PAGE 2

CHEWBLEX KIF2048 18+8 913 3340

IAN-27-2004 TUE 10:27 AM FROM:NORM DECON SERVICES FAX:9155631183

Section IV.	Fire and Explosion Data	Plexalick 982C	page 3/5
The product is:	May be combustible at high temperature.		
Auto-Ignition tempera	ture Not available.		
Fire degradation products	These products are carbon oxides (CO. CO2)	, nitrogen axides (NO, NO2).	
Flash points	>200°F.	· · · · · · · · · · · · · · · · · · ·	
flammable limits	Not available.		
Fire extinguishing procedures	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam, Spilled material will result in extremely elipper.	Do not use water jet. y susrfaces, perticularly if wet.	
Flammability	Potentially flammable in presence of unidizing	materials,	
	Remerk Not available,		
Risks of explosion	Risks of explosion of the annuat in presence of Risks of explosion of the product in presence of the p	f mechanicel impact; Not evallable. f static discharge: Not available,	
	Remark Not available.	****	
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	Reactivity Data
Stability	The product is stable.
Hazardous decomp. producty	Not available.
Degradability	Not available.
Products of	Possibly hezardous short term degradation products are not likely. However, long term degradation products may arise
degradation	The products of degradation are less toxic than the product itself.
	Remark
	Not available.
Corrosivity	Non-corrosive in presence of glass.
	Remark
	Not available.
Reactivity	Reactive with oxidizing agents.
	Remark
	No remark.

2 /C # PAGE 3

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CHEMBLEX KILDCHE 1018 813 3340 E811E95519:XA7

JAN-27-2004 TUE 10:27 AM FROM: NORM DECON SERVICES

OFCHON VI	Toxicological Properties	Sectional,		page -
Routes of entry	Dermal contact. Eye contact. Inhalation	ingestion.		
TLV	Not available.			
	Consult local authorities for acceptable exposu	e licche		
Toxicity for anima	as Acute oral toxicity: LD50>5000 mg/kg (ra	)		
		-		
, <sup>1</sup>				
	Remark			
	Not available.			
Chronic effects on	Not available.			······································
bumans				
		•		
	Remark			
	Not available.			
Acute effects on	May be skin initant.	· · · · · · · · · · · · · · · · · · ·		
humens	may be anni (ffidi).			
	·	•		
	Remark			
	No remark.			•
Section*VII: Vaste disposal	Preventive measures for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents	contaminetion	of this product may chang	It the waste
Section VII. Vaste disposal	Whatever cannot be saved for recovery or waste disposal facility. Processing, use or menagement options. State and local disr	contaminetion	of this product may chang	It the waste
Section VII: Vaste disposal	Whetever cannot be saved for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents	contaminetion	of this product may chang	It the waste
Vaste disposal	Whetever cannot be saved for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents Avoid freezing.	conzimination ceal regulation în accordance	or this product may chang a may differ from federal o with federal, state and loc	re the waste disposal regulations. al regulrements.
Vaste dispossi	Whetever cannot be saved for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents	Ground all a	or this product may chang a may differ from federal o with federal, state and loc	re the waste disposal regulations. al regulrements.
Vaste dispossi	Whetever cannot be saved for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents Avoid freezing. Keep container dry. Keep in a cool place	Ground all a	or this product may chang a may differ from federal o with federal, state and loc	re the waste disposal regulations. al regulrements.
Vaste disposal torage	Whatever cannot be saved for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents Avoid freezing. Keep container dry. Keep in a cool place tightly closed. Keep in a cool, well-ventilate	Ground all en Glace.	or this product may chang s may differ from federal ( with federal, state and loc quipment containing mate	re the waste disposal regulations. al regulraments.
Vaste disposal torage	Whatever cannot be saved for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents Avoid freezing. Keep container dry. Keep in a cool place tightly closed. Keep in a cool, well-ventilate Keep locked up Keep sway from heat. Keep evaporate the residue under a time bood	Ground all end place.	or onis product may chang s may differ from federal ( with federal, state and loc quipment containing mate proces of Ignition. Empty co	requirements. al requirements. al requirements. mai. Keep container
Vaste disposal torage	Whatever cannot be saved for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents Avoid freezing. Keep container dry. Keep in a cool place tightly closed. Keep in a cool, well-ventilate Keep locked up Keep eway from heat. Keep evaporate the residue under a fume hood. Dreathe geo/fumes/ vegour/sprav. Weer suite	Ground all en away from so around all en around all en around all en	auipment containing material,	re the waste lisposal regulations. al requirements. orial. Keep conteiner nteiners pose a fire ris Do not ingest. Oo no
Vaste disposal orage	Whatever cannot be saved for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents Avoid freezing. Keep container dry. Keep in a cool place tightly closed. Keep in a cool, well-ventilate vaporate the residue under a fume hood. breathe gas/fumes/ vapour/spray. Wesr suitat respiratory equipment if ingested, seek medi	Ground all en Ground all en ad place.	ar calls product may chang a may differ from federal of with federal, state and loc quipment containing material, proces of Ignition. Empty co pment containing material, thing in case of insufficient adjuster and show the containing	requirements. al requirements
vaste disposal torage	Whatever cannot be saved for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents Avoid freezing. Keep container dry. Keep in a cool place tightly closed. Keep in a cool, well-ventilate vaporate the residue under a fume hood, of breathe gas/fumes/ vapour/spray. Wear suitat respiratory equipment 16 ingested, seek medi contact with ekin and eyes. Keep eway from inc	Ground all en Ground all en d place.	arces of Ignition. Empty co pment containing material thing in case of insufficient ediately and show the contain h as oxidizing sgents, acids,	ntainers pose a fire ria Do not ingest. Oo no vantilation, waar suitab alner or the label. Avo sikalla, moisture.
vaste disposal torage	Whatever cannot be saved for recovery or waste disposal facility. Processing, use or management options. State and local disp Dispose of container and unused contents Avoid freezing. Keep container dry. Keep in a cool place tightly closed. Keep in a cool, well-ventilate vaporate the residue under a fume hood, breathe gas/fumes/ vapour/spray. Wesr suitat respiratory equipment if ingested, seek medi contact with ekin and eyes. Keep eway from inc	Ground all en Ground all en d place.	arces of Ignition. Empty co pment containing material thing in case of insufficient ediately and show the contain h as oxidizing sgents, acids,	ntainers pose a fire ria Do not ingest. Oo no vantilation, waar suitab alner or the label. Avo sikalla, moisture.
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# Plexslick 967

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$\mathbf{V}$			
1. Product And Company Identification			
Supplier Chemplex, L.C.	Manufacturer Chemplex, L.C.		
P.O. Box 1071	P.O. Box 1071		
506 CR 137	506 CR 137		
Snyder, TX 79550 United States	Snyder, TX 79550 United States		
Telephone Number: (325) 573-7298 FAX Number: (325) 573-3340	Telephone Number: (325) 573-7298 FAX Number: (325) 573-3340		
Supplier Emergency Contacts & Phone Number (800) 633-5253			
issue Date: 12/09/2003			
Product Name: Plexslick 987 Chemical Name: Anionic Polyacrylamide emulsion CAS Number: Not Established Chemical Family: Aliphatic amide			
MSDS Number: 99			
MSDS Number: 99 <u>Product/Material Uses</u> Not available.			
MSDS Number: 99 <u>Product/Material Uses</u> Not available. 2. Composition/Information On Ingredients Ingredient	CAS	Percent Of	
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MSDS Number: 99 Product/Material Uses Not available. 2. Composition/Information On Ingredients Ingredient Name PETROLEUM DISTILLATE 3. Hazards Identification Primary Routes(s) Of Entry	Number 64742-47-8	Total Weight	
MSDS Number: 99 <u>Product/Material Uses</u> Not available. 2. Composition/Information On Ingredients Ingredient	Number 64742-47-8		
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MSDS Number: 99 Product/Material Uses Not available. 2. Composition/Information On Ingredients Ingredient Name PETROLEUM DISTILLATE 3. Hazards Identification Primary Routes(s) Of Entry Dermal contact. Eye contact. Ingestion. Inhalation 4. First Ald Measures Eve	Number 84742-47-3	Total Weight 20 - 3	

Page 1 of 4



### Plexslick 967

#### 4. First Ald Measures - Continued

#### Skin - Continued

groin. Cold water may be used. Cover the irritated skin with an emolilent. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

HAZARD SKIN CONTACT: Wash with a disinfectant scap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

#### Indestion

Slight Ingestion: DO NOT Induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie belt or waistband. If the victim is not breathing perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Hazard Ingestion: DO NOT INDUCE VOMITING. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waist band. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

#### Inhalation

Slight Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention. Hazardous Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waist band. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

#### 6. Fire Fighting Measures

Flash Point: >200 °F

#### Fire And Explosion Hazards

Flammable in presence of oxidizing materials.

#### Fire Fighting Instructions

SMALL FIRE: Use DRY chemicals powder.

LARGE FIRE: Use water spray, foam or fog. Do not use water jet. Product will become very slippery when contacted with water.

#### 6. Accidental Release Measures

Small Spill and Leak: Absorb with an inert DRY material and place in an appropriate waste disposal container. Water will cause residue to become extremely slippery.

Large Spill and Leak: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

#### 7. Handling And Storage

#### Handling And Storage Precautions

Keep container dry, keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep at above 35°F.

Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing in case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, and moisture.

#### Page 2 of 4





Protective Clothing (Pictograms)
8. Exposure Controls/Personal Protection
Eve/Face Protection Splash goggles.
<u>Skin Protection</u> Apron/Lab coat, gloves.
Respiratory Protection Vapor respirator Be sure to use an approved/certified respirator or equivalent.
Ingredient(s) - Exposure Limits PETROLEUM DISTILLATE ACGIH TLV-STEL 500 ppm (Notice of Intended Change) ACGIH TLV-STEL 400 ppm (Proposed) ACGIH TLV-TWA 400 ppm (Notice of Intended Change) ACGIH TLV-TWA 200 ppm (Proposed) OSHA PEL-TWA 400 ppm
9. Physical And Chemical Properties
Appearance Milky white liquid.
<u>Odor</u> Faintiy piney.
Chemical Type: Mixture Boiling Point: 105 °C Specific Gravity: 0.90 (water=1) pH Factor: Neutral
10. Stability And Reactivity
Stability: This product is stable.
Conditions To Avoid (Stability) Reactive with oxidizing agents, moisture.
11. Toxicological Information
Skin Effects Hazardous in case of skin contact (irritant).
Acute Oral Effects Hazardous in case of ingestion.
Ingredient(s) - Carginogenicity PETROLEUM DISTILLATE Listed in The IARC Monographs

Peace 3 of 4

PAGE 8

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## 12. Ecological Information No Data Available... **13. Disposal Considerations** Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. 14. Transport Information Proper Shipping Name Not DOT Regulated 15. Regulatory Information U.S. Regulatory Information Not DOT Regulated. Ingredient(s) - State Regulations PETROLEUM DISTILLATE New Jersey - Workplace Hazard New Jersey - Special Hazard Pennsylvania - Workplace Hazerd Massachusetts - Hazardous Substance New York City - Hazardous Substance 16. Other Information NFPA Rating Health: 1 Fire: 0 Reactivity: 0 **Revision/Preparer Information** MSDS Preparer: Dr. Edward F. Vinson MSDS Preparer Phone Number: 915-573-7298 This MSD8 Supercedes A Previous MSDS Dated: 07/10/2002 Disclaimer Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the

Chemplex, L.C.

their particular purposes(s).

West Using MSDS Generator # 2000

Page 4 of 4

consequences of its use. Each individual should make a determination as to the suitability of the information for

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1. Product And Company Identification	······································		······································
Supplier Chemplex, L.C. P.O. Box 1071 506 CR 137 Snyder, TX 79550 United States	Manufacturer Chemplex, L.C. P.O. Box 1071 506 CR 137 Snyder, TX 79650 Un	ited States	
Telephone Number; (325) 573-7298 FAX Number: (325) 573-3340	Telephone Number: () FAX Number: (325) 57	325) 573-7298 '3-3340	
Supplier Emergency Contacts & Phone Number (800) 633-8253         Manufacturer Emergency Contacts & Phone Number (800) 633-8253			Phone Number
Issue Date: 01/30/2003 Product Name: Plexelick 961 Chemical Name: Anionic Polyacrylamide emulsion CAS Number: Not Established Chemical Family: Aliphatic amide MSDS Number: 211 Product/Material Uses Friction reducer for water.			
2. Composition/Information On Ingredients			
Ingredient Name		CAS . Number	Percent Of Total Weight
PETROLEUM DISTILLATE 64742-47-8 20 - 30			
3. Hazards Identification <u>Primary Routes(s) Of Entry</u> Dermal contact. Eye contact. Ingestion. Inhelation. <u>Ingestion Hazards</u> Hazardous in case of Ingestion.	· ·		
Inhelation Hazards Hazardous in case of skin contact. (irritent)			

Page 1 of 5





#### 4. First Aid Measures

#### Ëve

Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention. Flush with plenty of water for at least 15 minutes, occasionally lifting the upper lower eyelids.

#### Skin

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive scap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emolilient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

HAZARD SKIN CONTACT: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

#### Ingestion

DO NOT Induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, the belt or walstband. If the victim is not breathing perform mouth-to-mouth resusictation. Seek immediate medical attention.

#### Inhalation

Slight Inhalation: Allow the victim to rest in a well ventilated area. Seek Immediate medical attention. Hazardous inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or walst band. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

#### 5. Fire Fighting Measures

#### Flash Point: >200 °F

#### Fire And Explosion Hazards

Flammable in presence of oxidizing materials.

#### Fire Fighting Instructions

SMALL FIRE: Use DRY chemicals powder.

LARGE FIRE: Use water spray, foam or fog. Do not use water jet. Product will become very slippery when contacted with water.

#### 6. Accidental Release Measures

Small Spill and Leak: Absorb with an inert DRY material and place in an appropriate waste disposal container. Water will cause residue to become extremely slippery.

Large Spill and Leak: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

#### 7. Handling And Storage

#### Handling And Storage Precautions

Keep container dry, keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep at above 35°F.

Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing in case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the

#### Page 2 of 5

FAGE 11



### Plexslick 961

## 7. Handling And Storage - Continued

## Handling And Storage Precautions - Continued

label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, and moisture.

#### Protective Clothing (Pictograms)



#### 8. Exposure Controls/Personal Protection

#### Eve/Face Protection

Splach goggles.

#### **Skin Protection**

Apron/Lab coat, gloves.

## **Respiratory Protection**

Vapor respirator Be sure to use an approved/certified respirator or equivalent.

#### Ingredient(s) - Exposure Limits

PETROLEUM DISTILLATE ACGIH TLV-STEL 500 ppm (Notice of Intended Change) ACGIH TLV-STEL 400 ppm (Proposed) ACGIH TLV-TWA 400 ppm (Notice of Intended Change) ACGIH TLV-TWA 200 ppm (Proposed) OSHA PEL-TWA 400 ppm

#### 9. Physical And Chemical Properties

#### Appearance

Translucent white liquid.

#### <u>Odor</u>

Hydrocarbon oll.

#### Chemical Type: Mbture Bolling Point: 105 °C Specific Gravity: 1.04 (water=1) pH Factor: Neutral

#### **10. Stability And Reactivity**

Stability: This product is stable.

#### Conditions To Avold (Stability)

Reactive with oxidizing agents, moisture.

#### 11. Toxicological Information

#### Skin Effects

Hazardous in case of skin contact (Irritant).

#### Page 3 of 5

PAGE 12



#### Plexslick 961

#### 11. Toxicological information - Continued

#### Acute Oral Effects

Hazardous in case of ingestion.

#### <u>Incredient(s) - Carginogenicity</u> PETROLEUM DISTILLATE

Listed in The IARC Monographs

#### 12. Ecological Information

No Data Available...

#### **13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local regulirements.

#### 14. Transport Information

#### Proper Shipping Name

Not DOT Regulated

# 15. Regulatory Information

# U.S. Regulatory information

Not DOT Regulated.

#### Ingredient(s) - State Regulations

PETROLEUM DISTILLATE New Jersey - Workplace Hazard New Jersey - Special Hazard Pennsylvania - Workplace Hazard Massachusetts - Hazardous Substance New York City - Hazardous Substance

#### 16. Other Information

<u>NFPA Rating</u> Health: 1 Fire: 1

Reactivity: 0

Revision/Preparer Information MSDS Preparer: Dr. Edward F. Vinson MSDS Preparer Phone Number: 915-573-7298

This MSDS Supercedes A Previous MSDS Dated: 07/15/2002

#### Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for

#### Page 4 of 5

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Plexslick 961

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#### **Disclaimer - Continued**

their particular purposes(s).

Chemplex, L.C.

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Page 5 of 5

District I 1625 N. Frénch Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-138 Revised June 10, 2003

> Submit Original Plus 1 Copy to Appropriate District Office

# **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: Non-Exempt: X	4. Generator Navajo Refining Company		
□Verbal Approval Received: Yes □ No X	5. Originating Site Artesia, NM		
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J Waste Service		
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico		
7. Location of Material (Street Address or ULSTR) 501 E Main, Artesia NM			
9. <u>Circle One</u> :			
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> </ul>	ecessary chemical analysis to PROVE the		
All transporters must certify the wastes delivered are only those consigned for transp	port.		
BRIEF DESCRIPTION OF MATERIAL:	АВ 020 21222324 25 100 12 500 5900H 220 500 5900H 220 500 120 120 120 500 120		
RE: 02-06-04 FEB 1 8 2004	<b>COO COO</b>		
Contaminated Soil.			
Contaminated soil from excavation of a sewer line for repair. VISION			
Enclosed is non-exempt certificate of waste status, Analytical data and Chain-of-Custody	\$10168195VEL		
This approval is for one time.			
Estimated Volume 500 yards. Known Volume (to be entered by the operator at the end of	the haul)cy		
SIGNATURE King Monagement Facility Authorized Agent TITLE: <u>Rep</u> DATE:	<u>02-06-04</u> o		
TYPE OR PRINT NAME: <u>Kim Flowers</u> TELEPHONE NO. (505)393-1079	<u></u> 20 		
E-MAIL ADDRESS david@crihobbs.com	No O		
(This space for State Use)			
	NGA DATE: 2.(1.04-		
APPROVED BY: Montyn 724 TITLE: Environment	DATE: 2-18-04		
· · · · · · · · · · · · · · · · · · ·			



# **REFINING COMPANY, L.P.**

FAX (505) 748-5283 DIV. ORDERS (505) 748-5481 TRUCKING (505) 748-5458 PERSONNEL

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501 EAST MAIN STREET • P. O. BOX 159 ARTESIA. NEW MEXICO 88211-0159 TELEPHONE (505) 748-3311 FAX (505) 746-5419 ACCOUNTING (505) 746-5451 EXEC/MKTG (505) 746-5421 ENGINEERING (505) 746-5480 PIPELINE

February 6, 2004

Ken Marsh	Post-it* Fax Note 7671	Date 24/04 pages 28		
CRI	To Ken Marsh	From Charlie Aumale		
P.O. Box 388	Co./Dept. CRI	Co. Dawaic Refining		
Hobbs, NM 88214	Phone #	Phone #		
	Fax # 505-393-3615	Fax #		
Ken				

Ken,

I would like to profile contaminated soil from excavation of a sewer line in our crude unit. This material is NON HAZARDOUS and would be transported in 20 yard roll off bins by D & J waste haulers.

Since

CharlielPlymale Sr. Environmental Specialist ī

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#### CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: <u>Navaju Refining Company</u>
ADDRESS: 501 East Main
GENERATING SITE: Navajo Refining Company
COUNTY: Eddy
STATE: NM
TYPE OF WASTE: Contaminated soil
ESTIMATED VOLUME: 500 yards
GENERATING PROCESS: <u>Contaminated soil from excavation of a sewer line for</u> Repair.
REMARKS:
NMOCD FACILITY: Controlled Recovery Incorportated
TRUCKING COMPANY: D&J Waste Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory

Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT:	Union	
	SIGNATURE	
NAME:	Charife Plymale	
	PRINTED	
ADDRESS:	501 EAST MAIN	<b></b>
	ARTESIA,NM 88210	
DATE:	2/0/04_	



e-Lab, Inc.

10450 Standill Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

February 04, 2004

Charlie Plymale Navajo Refining Company P.O. Box 159 Artesia, New Mexico 88211

Tel: (505) 746-5241 Fax: (505) 746-5421

Re: S.P. Sewer Line-Artesia

Work Order : 0401258

Dcar Charlic Plymalc,

c-Lab, Inc. received 1 sample on 1/30/2004 9:25:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 26.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill.

Elocuorically approved by: Paulone A. Daname Lora Terrill VP Lab Operations e-Lab, Inc.

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Date: February 04, 2004

CLIENT:	Navajo Refining Company	 		· <del>***********************************</del>	
Project:	S.P. Sewer Line-Artesia		Work Order Samp	le Summary	
Work Order:	0401258	work order Sample Summar			

Lab Sample I	<u>D Client Sample ID</u>	<u>Matrix</u>	Tag Number	<b>Collection Date</b>	Date Received	<u>Hold</u>
0401258-01	S.P. Sewer Line	Soil		1/28/2004 13:00	1/30/2004 09:25	۱j

SS Page 1 of 1

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e-Lab. Inc.		Date: February 04, 2004		
CLIENT:	Navajo Refining Company			
Project:	S.P. Sewer Line-Artesia	<b>Case Narrative</b>		
Work Order:	0401258			

Batch 7903 Semivolatile LCS/LCSD recovery for Hexachlorobenzene is flagged, but is actually within 10% of the true value (107% and 105%).

CN Page 1 of 1

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e-Lab, Inc.			. <u> </u>			Date:	February	()4, 20()4
CLIENT:	Navajo Refining Compa	 ny			Clie	nt Sample ID:	S.P. Sewe	r Line
Work Order:	0401258				Co	lection Date:	1/28/2004	1:00:00 PM
Project:	S.P. Sewer Line-Artesia							
Lab ID:	0401258-01					Mutrix:	SOIL	
Analyses		Result	Report Limit	Qual	Units	Dilution Factor		Date Analyzed
	Y			SW747	0	Prep Date:	2/2/2004	Analyst: JCJ
Mercury		ND	0.00200	. נ	mg/L	1		2/3/2004 4:43:22 PM
TCLP METALS,	ICP			SW131	1/8020	Prep Date:	7/9/9004	Analyst ALD
Arsenic	6 <b>197</b> 1	ND	0.0500		mg/L	7 ep Oate. 10	<i>LI LI L</i> VV4	Analyst: ALR 2/2/2004 6:20:00 PM
Barium		0.991	0.0500		mg/L	10		2/2/2004 6:20:00 PN
Cadmium		ND	0.0500		mg/L	10		2/2/2004 6:20:00 PN
Chromium		ND	0.0500		mg/L	10		2/2/2004 6:20:00 PW
Lead		ND	0.0500		mg/L	10		2/2/2004 6:20:00 PM
Scienium		ND	0.0500		mg/L	10		2/2/2004 6:20:00 PN 2/2/2004 6:20:00 PN
Silver		ND	0.0500		mg/L	10		2/2/2004 6:20:00 PN
CLP SEMIVOL	ATILES			SW131	1/8270	Prep Date:	2/2/2004	Analyst: HV
2,4,5-Trichloroph	enol	ND	10	)	μ <b>g</b> /L	1		2/3/2004 4:07:00 PM
2,4,6-Trichloroph	enol	ND	10	)	µĝ/∟	1		2/3/2004 4:07:00 PN
2,4-Dinitrotoluen	ê	ND	10	)	µg/L	1		2/3/2004 4:07:00 PM
Cresols, Total		ND	30	)	µg/L	1		2/3/2004 4:07:00 PN
Hexachlorobenze	8 <b>7</b> 8	ND	10	)	µ <b>g/</b> L	1		2/3/2004 4:07:00 PM
Hexachiorobutad	liene	ND	10	)	µg/L	1		2/3/2004 4:07:00 PN
Hexachloroethan	e	ND	10	)	µg/L	1		2/3/2004 4:07:00 PM
Nitrobenzene		ND	10	)	µg/L	1		2/3/2004 4:07:00 PM
Pentachlorophen	101	ND	10	)	µg/L	1		2/3/2004 4:07:00 PM
Pyridine		ND	10	)	μ <b>g/</b> L	1		2/3/2004 4:07:00 PM
Surr: 2,4,6-Tril	bromophenol	108	45-146	;	%REC	1		2/3/2004 4:07:00 PM
Surr: 2-Fluorol	biphenyl	96 O	55-120	)	%REC	1		2/3/2004 4:07:00 PM
Sur: 2-Fluoro	phenol	49.5	21-110	•	%REC	1		2/3/2004 4:07:00 PM
Sun: 4-Terphe	enyi-d14	93.2	42-153	l	%REC	1		2/3/2004 4:07:00 PM
Surr: Nitroben:	zene-d5	89.7	51-117	•	%REC	1		2/3/2004 4:07:00 PM
Sun: Phenol-d	0	33.2	10-110	ł	%REC	1		2/3/2004 4:07:00 PM
CLP VOLATILE				SW131:		Prep Date:	1/30/2004	
1,1-Dichloroethe		ND	100		µg/L	20		2/2/2004 6:56:00 PM
1,2-Dichloroethai		ND	100		μ <b>g/</b> L	20		2/2/2004 8:56:00 PM
1,4-Dichlorobenz	ene	ND	100		h <b>ô</b> /r	20		2/2/2004 6:56:00 PM
2-Butanone		ND	200		hā\r	20		2/2/2004 6:56:00 PM
Benzene		ND	100		µg/L	20		2/2/2004 6:56:00 PM
Carbon tetrachio	nae	ND	100		µg/L	20		2/2/2004 8:56:00 PM
Chlorobenzene		ND	100		µg/L	20		2/2/2004 8:56:00 PM
Chloraform		ND	100		µġ/L	20		2/2/2004 8:56:00 PM
Tetrachloroethen	9	ND	100		ug/L	20		2/2/2004 6-56-00 PM
Trichloroethene		ND	100		µg/L	20		2/2/2004 6:56:00 PM
Vinyl chloride		ND	100		µg/L	20		2/2/2004 6:56:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyzo dotocted below quantitation limits

R - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 1 of 2

### c-Lab, Inc.

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#### Date: February 04. 2004

CLIENT:	Navajo Refining Company	Client Sample ID:	S.P. Sewer Line
Work Order:	0401258	•	1/28/2004 1:00:00 PM
Project:	S.P. Sewer Line-Artesia		
Lab ID;	0401258-01	Matrix:	SOIL

Analyses	Result	Report Limit Qua	l Units	Dilution Factor	Date Analyzed
Sur: 1.2-Dichloroethane-d4	82.2	70-130	%REC	20	2/2/2004 6:56:00 PM
Surr: 4-Bromofluorobenzene	99.4	70-130	%REC	20	2/2/2004 6:56:00 PM
Surr: Dibromofluoromethane	87.3	70-130	%REC	20	2/2/2004 6:56:00 PM
Suff: Toluene-de	93.4	70-130	%REC	20	2/2/2004 6:58:00 PM
CYANIDE, REACTIVE		SW-I	346		Analyst: MAG
Reactive Cyanide	ND	0.0300	mg/Kg	1	2/4/2004
SULFIDE, REACTIVE		SW-I	346		Analyst: MAG
Reactive Sulfide	ND	40.0	mg/Kg	1	2/4/2004
IGNITABILITY FOR SOLIDS		SWB	46, CHPT. 7.	1.2	Analyst: LMD
Burns vigorously and persistently	No			1	1/30/2004
Ignites spontaneously	No			1	1/30/2004
Ignites through friction	No			1	1/30/2004
ignites under std. temp and pressure	No			1	1/30/2004
Ignites with moisture	No			1	1/30/2004
PH IN SOLID		SW9	045B		Analyst: MG
pН	8.70	0.100	pH Unite	i 1	1/30/2004

Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- - Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range
- 11 Analyzed outside of Hold Time

AR Page 2 of 2

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c-Lab, In	с.								Date:	Feb 04	2004
CLIENT: Work Order Project:	Navajo Refining Con							Q	C BAT(	CH RE	PORT
Batch ID: 7893	instrumentiD:	ICP750	)								
MBLK	Sample ID: MBLKW1-020204			Tes	t Code: SW13	11/6020	Units: n	ng/L	Analysis [	)ale: 02/02	2/04 17:10
Client (D:		Run ID:	ICP750	0_040202A	SeqNo	424	083	Prep Date: 2	2/2/2004	DF: 10	
Analyte		Resul	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic		ND	0.050								
Barium		ND	0.050				·	•••			
Cadmium		ND	0.050								
Chromium		ND	0.050								
Lead		ND	0.050								
Selenium		ND	0.050								
Silver		ND	0.050								
MBLK	Sample ID: MBLKT1-013004			Tes	t Code: SW13	11/8020	Units: m	ıg/L	Analysis D	ate: 02/02	2/04 17:20
Client ID:		Run ID:	ICP750	0_040202A	SeqNo	424	085	Prep Date: 2	2/2/2004	DF: 10	
Analyte	1	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
• •	ı	Result		SPK Vai		%REC			%RPD		Quai
Arsenic	r	ND	0.050	SPK Val		%REC			%RPD		Qual
Arsenic Rarium	r			SPK Val		%REC			%RPD		Qual
Arsenic Rarium Cadmlum		ND ND	0.050 0.050	SPK Val		%REC			%RPD		Qual 
Analyte Arsenic Rarium Cadmlum Chromlum Lead		ND ND ND	0.050 0.050 0.050	SPK Val		%REC			%RPD		•
Arsenic Rarium Cadmlum Chromium	0.00	ND ND ND 07346	0.050 0.050 0.050 0.050	SPK Val		%REC			%RPD		•
Arsenic Rarium Cadmlum Chromlum Lead Selenium	0.00	ND ND ND 07346 ND	0.050 0.050 0.050 0.050 0.050 0.050	SPK Val		%REC			%RPD		J
Arsenic Barium Cadmlum Chromlum Lead Selenium Silver	0.00	ND ND ND 07348 ND 02378	0.050 0.050 0.050 0.050 0.050 0.050 0.050				Limit	Value	%RPD	Limit 	J J J
Arsenic Barium Cadmlum Chromium Lead Selenium Silver	0.0(	ND ND ND 07348 ND 02378	0.050 0.050 0.050 0.050 0.050 0.050 0.050		Value	11/6020	Limit Units: m	Value	- · · · · · · · · · · · · · · · · · · ·	Limit 	J J J
Arsenic Barium Cadmlum Chromlum Lead Selenium Silver LCS S Client ID:	0.00 0.0 Sample ID: MLCSW1-020204	ND ND ND 07348 ND 02378 ND	0.050 0.050 0.050 0.050 0.050 0.050 0.050	Tes	Value  t Code: SW13	11/6020	Limit Units: m	Value 	- · · · · · · · · · · · · · · · · · · ·	Limit  21e: 02/03	J J J
Arsenic Barium Cadmlum Chromlum Lead Selenium Silver LCS S Client ID: Analyte	0.00 0.0 Sample ID: MLCSW1-020204 F	ND ND 07348 ND 02378 ND Run ID: Result	0.050 0.050 0.050 0.050 0.050 0.060 0.050 0.050	Tes 5_040203A SPK Val	Value  t Code: SW13 SeqNo: SPK Ref Value	11/6020 424 %REC	Limit Units: m 238 Control Limit	Value g/L Prep Date: 2 RPD Ref	Analysia D //2/2004 %RPD	Limit  ate: 02/03 DF: 10 RPD	J J /04 13:19
Arsenic Barium Cadmlum Chromlum Lead Selenium Silver LCS Client ID: Analyte Arsenic	0.00 0.0 Sample ID: MLCSW1-020204 F 0	ND ND D7348 ND D2378 ND Run ID: Result	0.050 0.050 0.050 0.050 0.050 0.060 0.050 iCP750 PQL 0.050	Tes 5_040203A SPK Val 0.2	Value Code: SW13 SeqNo: SPK Ref Value 0		Limit Units: m 238 Control Limit 80-120	Value g/L Prep Date: 2 RPD Ref	Analysia D 2/2/2004 %RPD 0	Limit  ate: 02/03 DF: 10 RPD	J J /04 13:19
Arsenic Rarium Cadmlum Chromlum Lead Selenium Silver LCS S Client ID: Analyte Arsenic Barium	0.0( 0,( Sample ID: MLCSW1-020204 F 0 0	ND ND 07348 ND 02378 ND Run ID: Result .2235 .1958	0.050 0.050 0.050 0.050 0.050 0.060 0.050 iCP750 PQL 0.050 0.050	Tes 5_040203A SPK Val 0.2 0.2	Value Code: SW13 SeqNo: SPK Ref Value 0 0	11/6020 424 %REC 112 97.9	Limit Units: m 238 Control Limit 80-120 80-120	Value g/L Prep Date: 2 RPD Ref	Analysia D 2/2/2004 %RPD 0 0	Limit  ate: 02/03 DF: 10 RPD	J J /04 13:19
Arsenic Rarium Cadmlum Chromlum Lead Selenium Silver LCS S Client ID: Analyte Arsenic Barium Cadmium	0.00 0.0 Sample ID: MLCSW1-020204 F 0 0 0 0 0	ND ND D7348 ND D2378 ND Run ID: Result .2235 .1958 .2087	0.050 0.050 0.050 0.050 0.050 0.050 0.050 <b>0.050</b> <b>PQL</b> 0.050 0.050	Tes 5-040203A SPK Val 0.2 0.2 0.2	Value Code: SW13 SeqNo: SPK Ref Value 0 0	11/6020 424 %REC 112 97.9 104	Limit Units: m 238 Control Umit 80-120 80-120 60-120	Value g/L Prep Date: 2 RPD Ref	Analysia D 2/2/2004 %RPD 0 0	Limit  ate: 02/03 DF: 10 RPD	J J /04 13:19
Arsenic Rarium Cadmlum Chromlum Lead Selenium Silver LCS Client ID: Analyte Arsenic Barium Cadmium Chromium	0.00 0,0 Sample ID: MLCSW1-020204 F 0 0 0 0 0 0 0 0 0 0 0	ND ND ND 07348 ND 02378 ND Run ID: Result .2235 .1958 .2087 .1625	0.050 0.050 0.050 0.050 0.050 0.050 0.050 ICP750 PQL 0.050 0.050 0.050 0.050	Tes <b>5_040203A</b> SPK Val 0.2 0.2 0.2 0.2	Value  R Code: SW13 SuqNo: SPK Ref Value 0 0 0 0 0	11/6020 424 %REC 112 97.9 104 81.2	Limit Units: m 238 Control Limit 80-120 80-120 80-120 80-120	Value g/L Prep Date: 2 RPD Ref	Analysia D 2/2/2004 2/2/2004 0 0 0 0	Limit  ate: 02/03 DF: 10 RPD	J J /04 13:19
Arsenic Barium Cadmlum Chromium Lead Selenium Silver	0.00 0.0 Sample ID: MLCSW1-020204 F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ND ND D7348 ND D2378 ND Run ID: Result .2235 .1958 .2087	0.050 0.050 0.050 0.050 0.050 0.050 0.050 <b>0.050</b> <b>PQL</b> 0.050 0.050	Tes 5-040203A SPK Val 0.2 0.2 0.2	Value Code: SW13 SeqNo: SPK Ref Value 0 0	11/6020 424 %REC 112 97.9 104	Limit Units: m 238 Control Umit 80-120 80-120 60-120	Value g/L Prep Date: 2 RPD Ref	Analysia D 2/2/2004 %RPD 0 0	Limit  ate: 02/03 DF: 10 RPD	J J /04 13:19

. . \_ .. . ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyce detected in assoc. Method Blank

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

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E - Value above quantitation range

QC Page: 1 of 11

O - Referenced analyte value is > 4 times amount spiked

3 - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

#### **CLIENT:** Navajo Refining Company Work Order: 0401258 **Project:** S.P. Sower Line-Artesia

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### **QC BATCH REPORT**

Batch ID: 781	instrumentiD:	ICP7600	) 		<u></u>						
MŜ	Sample ID: 0401236-09CMS			Tes	it Code: SW13	11/8020	Units: m	ig/L /	Analysis Di	ste: 02/02	/04 17:4
Client ID:		Run ID:	ICP7500	_040202A	SeqNo:	424	089	Prep Date: 2/2	2004	DF: 10	
					SPK Ref		Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
Arsenic		0.2177	0.050	0.2	0.02128	98.2	75-125	0			
Barlum	·····	1.958	0.050	0.2	0.6904	534	75-125		•		SO
Cadmium		0.1879	0.050	0.2	0.0002937	93.8	76-125	o			
Chromium		0.1537	0.050	0.2	0.03076	61.5	75-125	0	••		S
Lead		0.171	0.050	0.2	0.0009032	85	75-125	0			
Selenium		0.1934	0.050	0.2	0.04699	73.2	75-125	0			S
Silver		0.1881	0.050	0.2	-0.00004061	94.1	<u>75</u> -125	0			
MSD	Sample ID: 0401238-09CMS	D		Tes	I Code: SW13	11/6020	Units: m	g/L /	Analysis Da	ite: 02/02/	04 17:50
Cilent ID:		Run ID:	ICP7500	_040202A	SeqNo:	424	090	Prep Date: 2/2/		DF: 10	
					SPK Ref		Control	RPD Ref		RPD	
Analyte		Result	POL	SPK Val	Value	%REĈ	Limit	Value	%RPD	Limit	Quai
Arsenic		0.2567	0.050	0.2	0.02126	118	75-125	0.2177	16.4	25	
Barium		2.117	0.050	0.2	0.8904	613	75-125	1.958	7.8	25	SÔ
Cadmium		0.2047	0.050	0.2	0.0002937	102	75-125	0.1879	8.56	25	
Chromium		0.1642	0.050	0.2	0.03076	66.7	75-125	0.1537	6.61	25	ัร
Lead		0.1839	0.050	0.2	0.0009032	91.5	75-125	0.171	7.27	25	
Selenium		0.23	0.050	0.2	0.04699	91.5	75-125	0.1934	17.3	25	
Silver	··· · ···	0.2006	0.050	0.2	-0.00004061	100	75-125	0.1881	6.43	_ 25_	. <u></u>
DUP	Sample ID: 0401236-09CDU	P		Тез	Code: SW131	1/8020	Units: m	g/L /	Analysis Da	ite: 02/02/	04 17:40
Client ID:		Run ID:	ICP7500	_ <b>0</b> 40202A	SeqNo:	424	880	Prep Date: 2/2/	2004	DF: 10	
					\$PK Ref		Control	RPD Ref		RPD	
Analyte	·	Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
Arsenic		ND	0.050	0	0	0	0-0	0.02126	0	25	
Barium		2.067	0.050	0	0	Ó	0-0	0.8904	79.6	25	R
Cadmium		ND	0.050	0	0	0	0-0	0.0002037	0	25	
Chromium		0.0281	0.050	0	0	0	0-0	0.03076	0	25	J
Load		ND	0.050	0	0	0	0-0	0.0009032	0	25	
Selenium	0	.02745	0.050	0	0	0	0-0	0.04699	0	25	J
Silver		ND	0.050	0	0	0	0-0	-0.00004061	0	25	

The following samples were analyzed in this batch:

0401258-01A

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

it - RPD outside accepted recovery limits

B - Analyte detected in assoc, Method Blank

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

U - Analyzed for hut not detected E - Value above quantitation range

QC Page: 2 of 11

CLIENT: Work Order Project:	Navajo Refining Cor :: 0401258 S.P. Sewer Line-Arte							Q	C BATC	CH RE	PORT
Belch ID: 7895	instrumentiD:	Mercury	/ 	· · · · · · · · · · · · · · · · · · ·			·				
MBLK S	Sample (D: GBLKW1-020204			Test	Code: SW74	70	Units: n	ng/L	Analysis D	ate: 02/0	3/04 16:22
Client ID:		Run ID:	MERCI	URY_040203A	SeqNo:	424	291	Prep Date: 2	2/2/2004	DF: 1	
Analyte		Result	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		ND	0.0020								
MBLK S	Sample ID: GBLKT1-013004			Test	Code: SW74	70	Units: n	ıg/L	Analysis D	ale: 02/0	1/04 17:26
Client ID:		Run ID:	MERC	URY_040203A	SeqNo:	42,4	339	Prep Date: 2	2/2/2004	DF: 1	
Aneiyte		Result	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	rpd Limit	Qual
Mercury		ND	0.0020								
LCS S	Sample ID: GLCSW1-020204			Test	Code: SW74	70	Units: n	ng/L	Analysis D	ale: <b>02/0</b>	0/04 16:24
Client ID;		Run ID:	MERCL	JRY_040203A	SeqNo:	424	292	Prep Date: 2	2/2/2004	DF: 1	
Analyte		Result	POL	SPK Vat	PK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.	00472	0.0020	0.005	0	<del>9</del> 4.4	80-120		0		
LCSD S	Sample ID: GLCSDW1-02020	4		Test	Code: SW74	70	Units: m	ıg/L	Analysis D	ate: 02/03	/04 16:25
Client ID:		Run ID;	MERCU	JRY_040203A	SegNo:	424	293	Prep Date: 2	2/2/2004	DF: 1	
Analyte		Result	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.	00468	0.0020	0.005	0	93.6	80-120	0.004	72 0.851	25	-
MS S	Sample ID: 0401213-01AMS			Test (	Code: SW74	70	Unils: m	ıg/L	Analysis D	ale: 02/03	/04 16:32
Client ID:		Run (D:	MERĈI	JRY_040203A	SeqNo:	424	286	Prep Date: 2		DF: 1	
Analyte		Result	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Valua	%RPD	RPD Limit	Quai
Mercury	0.	00457	0.0020	0.005	-0.000095	93.3	75-125		0		
MSD S	Sample ID: 0401213-01AMSD	)		Test (	Code: SW747	70	Units: m	ig/L	Analysis D	ale: 02/03	/04 16:38
Client ID:		Run ID:	MERCL	JRY_040203A	SeqNo:	424		Prep Date: 2	•	DF: 1	
Analyte		Result	PQL	SPK Val	iPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Quel
Mercury	(	.0052	0.0020	0.005	-0.000095	106	75-125	0.004	57 12.9	20	

.... ND - Not Demeted at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

B - Analyte detected in assoc. Method Blank

E - Value above quantitation range

OC Page: 3 of 11

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P - Dual Column results percent difference > 40%

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O - Referenced analyte value is > 4 times amount spiked

CLIENT: Work Orde Project:	Navajo Refining Con er: 0401258 S.P. Sewer Line-Arte	·						QC	BATC	'H RE	PORT
Batch ID: 789	6 InstrumentiD;	Mercur	у								
DUP	Sample ID: 0401213-01ADUF	>			Code: SW		Units: n	ng/L 4	Analysis Di	ale: 02/03	/04 16:31
Client ID:		Run ID:	MERCI	JRY_040203A	Seq!	No: 424	295	Prep Dale: 2/2/	2004	DF: 1	
Analyte		Result	FQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		ND	0.0020	Ø	C	0	0-0	-0.000095	a	20	-
The following	g samples were analyzed in t	his batch:	04	01258-01A					]		

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- O Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

- R RPD outside accepted recovery limits
- P Dual Column results percent difference > 40%
- B Analyte detected in assoc. Method Blank
- U Analyzed for but not detected

E - Value above quantitation range

QC Page: 4 of 11

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### 012/028

Work Order:	Navajo Refining Co Mo1258	nmpany						QC	CBATC	CH RE	POR
Brolast.	0401258 5 D. Saura I ing As										
Project:	S.P. Sewer Line-Ar			•							
Batch ID: 7903	instrumentiD:	SV-3			<u> </u>			······			-
MBLK Sample	ID: SBLKT1-040202	2		Tes	Code: SW	311/8270	Units: µ	g/L	Analysis [	Dale: 02/0	3/04 14:49
Client ID:		Run ID:	SV-3_0	40202A	SeqN	o: 424	284	Prep Date: 2	/2/2004	OF: 1	
					SPK Ref		Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
2,4.5-Trichiarophenol		ND	10								
2,4,6-Trichlorophenol		ND	10								
2.4-Dinitrotoluene Cresols, Total		ND ND	10 			<b>.</b> . <u></u>		<u> </u>			
Hexachlorobenzene		ND	10								
Hexachlorobutadiene		ND	10				· ···-				·
Hexachloroethane		ND	10								
Nirobenzene		ND	10								
Pentachlorophenol		NU	10						<u></u> ,		
Pyridine	a-ba1	ND 400 D	10	400	•	108	45 440		•		
Surr: 2,4,6-Tribrom		106.2 97.02	10 10	100 100	. 0	106 97	45-148 55-120		0	····	
Sur: 2-Fluorophen		53.26	10	100	Ő	53.3	21-110		0		
Surr: 4-Terphenyl-c		105.4	10	100	0	105	42-153		0		
Surr: Nitrobenzene	-d5	94.04	10	100	0	94	51-117		0		
Surr: Phenol-d6		35.15	10	100	0	35.1	10-110		0		
LCS Sample	D: SLCST1-040202			Tes	l Code: SW1	311/8270	Units: µg	ı/L	Analysis D	ate: 02/03	/04 15:15
Client (D:		Run ID:	SV-3_0	40202A	SeqN	o: <b>424</b>		Prep Date: 2/	•	DF: 1	
					•					RPD	
Analyte		Result	PQL	SPK Val	SPK Reí Value	%REC	Control Limit	RPD Ref Value	%RPD	Limit	Qual
	<u></u>		<u> </u>							•	
2,4,5-Trichlorophenol		49.58	10	50	0	99.2	48-119				
				50					0		
•		50.62 47 11	10	50 50	0	101	52-119		0		
2,4-Olnitrotoluene		47.11	10	50	0	101 94.2	52-119 46-114		0		
2,4-Dinitrotoluene Cresols, Total					0	101	52-119		0		. <u> </u>
2,4-Dinitrotoluene Cresols, Total		47.11 121.9	10 30	50 150	0	101 94.2 81.3	52-119 46-114 35-100		0 0		\$
2.4-Olnitrotoluene Cresols, Total Hexechlorobenzene Hexechlorobutadiene Hexachloroethane	··	47.11 121.9 53.3 54.86 46.25	10 30 10 10	50 150 50	0 0 0 0 0 0	101 94.2 81.3 107	52-119 46-114 35-100 25-84		0 0 0		s
2.4-Olnitrotoluene Cresols, Total Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Nitrobenzene		47.11 121.9 53.3 54.88 46.25 47.39	10 30 10 10 10 10	50 150 50 50 50 50	0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8	52-119 48-114 35-100 25-84 47-120 47-113 55-111	······	D 0 0 0 0 0 0		Ş
2,4-Olnitrotoluene Cresols, Total Hexachlorobenzene Hexachlorobutadlene Hexachloroethane Nitrobenzene Pentachlorophenol		47.11 121.9 53.3 54.88 46.25 47.39 54.58	10 30 10 10 10 10 10 10	50 150 50 50 50 50 50	0 0 0 0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8 109	52-119 48-114 35-100 25-84 47-120 47-113 55-111 36-120		0 0 0 0 0 0 0 0		\$
2,4-Olnitrotoluene Cresols, Total Hexachlorobenzene Hexachlorobutadlene Mexachloroethane Nitrobenzene Pentachlorophenol Pyrldine		47.11 121.9 53.3 54.88 46.25 47.39 54.58 27.1	10 30 10 10 10 10 10 10 10	50 150 50 50 50 50 50 50	0 0 0 0 0 0 0 0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8 109 54.2	52-119 48-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80		D 0 0 0 0 0 0 0 0 0 0 0 0 0	 	\$
2,4-Olnitrotoluene Cresols, Total Hexachlorobenzene Hexachlorobutadlene Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine Surr: 2,4,6-Tribromm	and the second second second second second second second second second second second second second second second	47.11 121.9 53.3 54.88 46.25 47.39 54.58 27.1 107.9	10 30 10 10 10 10 10 10 10 10	50 150 50 50 50 50 50 50 50 100	0 0 0 0 0 0 0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8 109 54.2 108	52-119 48-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80 45-146		D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		5
2,4-Olnitrotoluena Cresols, Total Hexachlorobenzene Hexachlorobenzelne Mexachloroethane Nitrobenzene Pentachlorophenol Pyridina	nyl	47.11 121.9 53.3 54.88 46.25 47.39 54.58 27.1 107.9 92.77	10 30 10 10 10 10 10 10 10 10 10	50 150 50 50 50 50 50 50 50 100	0 0 0 0 0 0 0 0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8 109 54.2	52-119 48-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80	·····	D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 - 	\$
2,4-Olnitotoluena Cresols, Total Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Nitrobenzene Pentachlorophanol Pyridina Surr: 2,4,6-Tribromu Surr: 2-Filuorobiphe	nyl ol	47.11 121.9 53.3 54.88 46.25 47.39 54.58 27.1 107.9	10 30 10 10 10 10 10 10 10 10	50 150 50 50 50 50 50 50 50 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8 109 54.2 108 92.8	52-119 48-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80 45-146 55-120	· · ·	D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 	5
2,4-Olnitrotoluene Cresols, Total Hexachlorobenzene Hexachlorobutadlene Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine Surr: 2,4,6-Tribram Surr: 2-Fluorophene Surr: 2-Fluorophene Surr: 2-Fluorophene Surr: 4-Terphenyl-d Surr: Nitrobenzene	nyl ol 114	47.11 121.9 53.3 54.86 46.25 47.39 54.58 27.1 107.9 92.77 60.31 101.2 89.42	10 30 10 10 10 10 10 10 10 10 10 10 10 10	50 150 50 50 50 50 50 50 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8 109 54.2 108 92.8 60.3 101 89.4	52-119 46-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80 45-146 55-120 21-110	· · ·			\$
Hexachioroethane Nitrobenzene Pentachiorophenol Pyridine Surr: 2,4,6-Tribrom Surr: 2-Fluorophene Surr: 2-Fluorophene Surr: 4-Terphenyl-d	nyl ol 114	47.11 121.9 53.3 54.86 46.25 47.39 54.58 27.1 107.9 92.77 60.31 101.2	10 30 10 10 10 10 10 10 10 10 10 10 10	50 150 50 50 50 50 50 50 50 100 100 100		101 94.2 81.3 107 110 92.5 94.8 109 54.2 108 92.8 60.3 101	52-119 46-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80 45-146 55-120 21-110 42-153	· · ·			5
2,4-Olnitotoluena Cresols, Total Hexachlorobenzene Hexachlorobutadlene Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine Surr: 2,4,6-Tribrom Surr: 2,4,6-Tribrom Surr: 2-Fluorophene Surr: 2-Fluorophene Surr: 4-Terphenyl-d Surr: Nitrobenzene	nyl ol 114	47.11 121.9 53.3 54.86 46.25 47.39 54.58 27.1 107.9 92.77 60.31 101.2 89.42	10 30 10 10 10 10 10 10 10 10 10 10 10 10	50 150 50 50 50 50 50 50 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8 109 54.2 108 92.8 60.3 101 89.4	52-119 46-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80 45-148 55-120 21-110 42-153 61-117	· · ·			\$
2,4-Olnitrotoluene Cresols, Total Hexachlorobenzene Hexachlorobutadiene Mexachlorobutadiene Nitrobenzene Pentachlorophenol Pyridine Surr: 2,4,6-Tribromi Surr: 2-Fluorobiphe Surr: 2-Fluorobiphe Surr: Nitrobenzene- Surr: Nitrobenzene- Surr: Phenol-d8	nyi ol 194 45	47.11 121.9 53.3 54.86 46.25 47.39 54.58 27.1 107.9 92.77 60.31 101.2 89.42	10 30 10 10 10 10 10 10 10 10 10 10 10 10	50 150 50 50 50 50 50 50 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8 109 54.2 108 92.8 60.3 101 89.4	52-119 46-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80 45-148 55-120 21-110 42-153 61-117			 	5
2,4-Olnitrotoluene Cresols, Total Hexachlorobenzene Hexachlorobutadiene Mexachlorobutadiene Nitrobenzene Pentachlorophenol Pyridine Surr: 2,4,6-Tribromi Surr: 2-Fluorobiphe Surr: 2-Fluorobiphe Surr: Nitrobenzene- Surr: Nitrobenzene- Surr: Phenol-d8	nyi ol 194 45	47.11 121.9 53.3 54.86 46.25 47.39 54.58 27.1 107.9 92.77 60.31 101.2 89.42	10 30 10 10 10 10 10 10 10 10 10 10	50 150 50 50 50 50 50 50 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8 109 54.2 108 92.6 00.3 101 89.4 39.7	52-119 46-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80 45-146 55-120 21-110 42-153 61-117 10-110				
2,4-Olnitrotoluene Cresols, Total Hexachlorobenzene Hexachlorobutadlene Mexachlorobutadlene Pentachlorophenol Pyridine Surr: 2,4,6-Tribram Surr: 2,4,6-Tribram Surr: 2-Fluoropheno Surr: 2-Fluoropheno Surr: 4-Terphenyl-d Surr: Nitrobenzene Surr: Phenol-dØ	nyl 01 114 d5 c Keporting Limit	47.11 121.9 53.3 54.86 46.25 47.39 54.58 27.1 107.9 92.77 60.31 101.2 89.42	10 30 10 10 10 10 10 10 10 10 10 10 10 10 10	50 50 50 50 50 50 50 50 50 100 100 100 1		101 94.2 81.3 107 110 92.5 94.8 109 54.2 108 92.6 60.3 101 89.4 39.7	52-119 46-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80 45-146 55-120 21-110 42-153 61-117 10-110		D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
2,4-Olnitotoluena Cresols, Total Hexachlorobenzene Hexachlorobutadlene Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine Surr: 2,4,6-Tribrom Surr: 2,4,6-Tribrom Surr: 2-Fluorophene Surr: 2-Fluorophene Surr: 4-Terphenyl-d Surr: Nitrobenzene	nyl ol 194 45 e Keporting Limit w quantitution limits	47.11 121.9 53.3 54.86 46.25 47.39 54.58 27.1 107.9 92.77 60.31 101.2 89.42 39.85	10 30 10 10 10 10 10 10 10 10 10 10 10 5 - Sp R - R	50 150 50 50 50 50 50 50 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	101 94.2 81.3 107 110 92.5 94.8 109 54.2 108 92.8 60.3 101 89.4 39.7 20.7	52-119 46-114 35-100 25-84 47-120 47-113 55-111 36-120 17-80 45-146 55-120 21-110 42-153 61-117 10-110	B - Analyte	D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	detected ion range	

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# CLIENT: Navajo Refining Company Work Order: 0401258 Project: S.P. Sewer Line-Artesia

### QC BATCH REPORT

Batch ID: 7903	InstrumentID:	SV-3	
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LCSD Sample ID: SLCSDT1	-040202		Te	st Code: SW1	311/8270	Units: µ	g/L A	Analysis Date: 02/03/04 15:4			
Client ID:	Run ID:	\$V-3_0	40202A	SeqN	D: 424	286	Prep Date: 2/2/	2004	DF: 1		
Analyte	Result	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2.4.5-Trichlorophenol	48.56	10	50	0	97.1	48-119	49.58	2.08	25		
2,4.6-Trichlorophenol	51.06	10	50	0	102	52-119	50.62	0.868	25		
2,4-Dinitrotoluene	45.84	10	50	0	91.7	46-114	47.11	2.74	25		
Cresols, Total	119.7	30	150	0	79.8	35-100	121.9	1.8	25		
Hexechlorobenzene	52.43	10	50	0	105	25-84	53.3	1.66	25	Ş	
Hexachlorobutadiene	55.16	10	50	0	110	47-120	54.88	0.558	25		
Hexachioroethane	46.57	10	50	0	93.1	47-113	46.25	0.682	25		
Nitrobenzene	48.2	10	50	0	95.4	55-111	47.39	1.7	25		
Pentachlorophenol	51.16	10	50	0	102	36-120	54.58	6.47	42		
Pyridine	23.93	10	50	0	47.9	17-80	27.1	12.4	25		
Surr: 2.4,6-Tribromophenol	104.2	10	100	Q	104	45-146	107.9	3.56	25		
Surr: 2-Fluorobiphanyi	91.05	10	100	0	01	55-120	92.77	1.87	25		
Surr: 2-Fluorophenol	56.09	10	100	0	56.1	21-110	60.31	7.25	25		
Surr: 4-Terphenyl-d14	101.8	10	100	C	102	42-153	101.2	0.591	25		
Surr: Nitrobenzene-d5	87.55	10	100	0	87.5	<u>51-117</u>	89.42	2.11	25		
Surr: Phanol-d8	36.65	10	100	0	36.7	10-110	39.65	7.86	25		

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The following samples were analyzed in this batch:

0401258-01A

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ND - Not Detected at the Reporting Limit

J - Analyte detected helow quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD nutside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 6 of 11

# CLIENT:Navajo Refining CompanyWork Order:0401258Project:S.P. Sewer Line-Artesia

### **QC BATCH REPORT**

**Project:** VQA\_I Batch ID: R18544 InstrumentID: MBLK Sample ID: VBLKT1-0128 Test Code: SW1311/8260 Units: µg/L Analysis Date: 02/02/04 15:17 **Client ID:** Run ID: VOA\_1\_040202B SegNo: Prep Date: 1/28/2004 DF: 20 424132 SPK Ref RPD Control **RPD** Ref SPK Val Value %REC Limil Value Limit Analyte Result POL %RPD Qual 1,1-Dichloroethene ND 100 1,2-Dichloroethane ND 100 ND 1.4-Dichlorobenzene 100 ND 200 2-Butanone 8enzene ND 100 Carbon tetrachloride 100 ND ND Chiorobenzene 100 Chloroform ND 100 Tetrachloroethene ND 100 ND Trichloroethene 100 ND 100 Vinyl chloride 1000 Surr: 1,2-Dichloroethane-d4 839.6 D 70-130 Ó 84 ٥ Surr: 4-Bromofluorobenzene 988.5 1000 70-130 D ٥ 8.89 Ô Surr: Dibromofluoromethane Q 91.4 70-130 914 ٥ 1000 0 Surr: Toluana-d8 933.9 ٥ 1000 0 93.4 70-130 0 MBLK Test Code: SW1311/8260 Sample ID: VBLKT2-0202 Units: µg/L Analysis Date: 02/02/04 15:44 Client ID: Run ID: VOA\_I\_040202B ScqNo: 424133 Prep Date: 1/30/2004 DF: 20 SPK Ref RPD Control **RPD Ref** Value Limit Value Limit Result SPK Val %REC %RPD POL Analyte Qual ND 1,1-Dichloroethene 100 1,2-Dichloroethane ND 100 1,4-Dichlorobenzene ND 100 2-Butanone ND 200 ND Benzane 100 Carbon tetrachloride ND 100 Chlorobenzene ND 100 Chloroform 100 ND Tetrachioroelhene ND 100 Trichloroethene ND 100 Vinyl chloride ND 100 Surr: 1,2-Dichloroethane-d4 841.6 0 1000 Ô 84.Z 70-130 0

Surr: 4-Bromofluorobanzene 995.4 0 1000 0 99.5 70-130 Surr: Dibromofluoromethane 1000 893.7 0 0 89.4 70-130 Surr: Toluene-d8 1000 933.9 0 ٥ 93.4 70.130

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

1 - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

O - Referenced analyte value is > 4 times amount spiked

te - A D outsto acceptor recovery name

P - Dual Column results percent difference > 40%

B - Analyze detected in assoc. Method Blank

U - Analyzed for but not detected

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E - Value above quantitation range

QC Page: 7 of 11

InstrumentID:

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Batch ID: R18544

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CLIENT:	Navajo Refining Company
Work Order:	0401258
Project:	S.P. Sewer Line-Artesia

VOA\_I

### **QC BATCH REPORT**

MBLK Sample ID: VBLKW-0202			Te	st Code: SW	1311/8260	Units: µ	g/L,	Analysis Date: 02/02/04 16:11		
Client ID:	Run ID:	VOA_I_	040202B	Seq	No: 424	134	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	6.0								
1,4-Dichlorobenzenc	ND	5.0								
2-Butanone	ND	10								
Benzene	ND	5.0								
Carbon tetrachloride	ND	5.Ò			•				·	
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Tetrachioroethene	ND	5.0								
Trichieroethene	ND	5.0					••			
Vinyl chloride	ND	5.0								
Surr: 1,2-Dichloroethane-d4	41.62	0	50	0	83.2	70-130		0		
Surr: 4-Bromofluorobenzene	49.08	0	50	0	98.2	70-130		0		
Surr: Dibromofluoromethane	44.93	0	50	C	89.9	70-130		0		
Surr: Toluene-dê	46.82	0	50	0	93.6	70-130		0		

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LC\$ Sample ID: VLCSW-02	02		Tet	st Code: SW13	1/8260	Units: µg	/L	Analysis D	ate: 02/02	/04 13:30
Çlient ID:	Run ID:	VOAL	040202B	SeqNo:	424	131 F	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD 1,imit	Qual
1,1-Dichloroathena	48.48	5.0	50	0	97	50.8-126		0		
1,2-Dichloroethane	47.04	5.0	50	0	94.1	70-130		0		
1,4-Dichlorobenzene	46.02	5.0	50	0	92	70-130		0		
2-Butanone	104.3	10	100	0	104	70-130		0		
Benzene	48.09	5.0	50	0	96.2	70.1-128		0		
Carbon tetrachloride	48.48	5.0	50	o	97	70-130		0		
Chlorobenzene	48.74	5.0	50	0	93.5	72.5-127		0		
Chloroform	47.52	5.0	50	0	95	70-130	· · · ·	0		
Telrachloroethene	50.98	5.0	50	0	102	70-130		0		
Trichloroethene	48.02	5.0	50	0	. 96	72.5-129		0		
Vinyi chtoride	48.39	5.0	50	0	96.8	70-130		0		
Surr: 1,2-Dichloroethane-d4	41.99		50	0	84	65.3-120	-	0		
Surr: 4-Bromofluorobenzene	50.18	0	50	0	100	74.9-115		0		
Surr: Dibromofluoromethane	45.11	0	50	0	90,2	70.5-119		0		
Surr: Toluene-d8	46.36	0	50	0	92.7	72.6-119		0		

ND - Not Detected at the Reporting Limit

. . . . . .

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

U - Analyzed for but not detected

QC Page: 8 of 11

B - Analyte detected in assoc. Method Blank

E - Value above quantitation range

CLIENT:	Navajo Refining Con	npany
Work Order:	0401258	
Project:	S.P. Sewer Line-Arte	sia
Batch D: R18544	InstormentiD:	VOA 1

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### **QC BATCH REPORT**

MS Sample ID: 0401258-01	AMS		Tes	t Code: SW13	11/8260	Units: µ	g/L /	A <b>nalys</b> is C	)ate: 02/02	04 18:0
Client ID: S.P. Sewar Line	Run ID:	VOA_I_	0402028	SeqNo:	424	135	Prep Date: 1/2	8/2004	DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	990.9	100	1000	0	99.1	70-130	0			
1,2-Dichloroethane	920.9	100	1000	0	92.1	70-130	0			
1,4-Dichlorobenzene	927.4	100	1000	0	92.7	70-130				
2-Bulanone	1956	200	2000	0	97.8	70-130	0			
Benzene	990.7	100	1000	54.01	<b>93</b> .7	70-130	0	-		
Carbon tetrachioride	930.1	100	1000	0	93	70-130	0	-	<u></u>	
Chiorobenzene	940.9	100	1000	0	94.1	70-130	0			
Chloroform	950.5	100	1000	0	<b>95</b> .1	70-130	0			
Teirachloroethene	<b>982</b> .1	100	1000	27.78	95.4	70-130	D			
Trichloroethene	942.1	100	1000	0	94.2	70-130	0			
Vinyi chlorida	979.3	100	1000	0	97.9	70-130	0			
Surr: 1,2-Dichloroethane-d4	833.1	0	1000	Ð	83.3	70-130	0			
Surr: 4-Bromofluorobenzene	994.4	0	1000	0	99.4	70-130	0			
Surr: Dibromofluoromethane	894.1	0	1000	0	89.4	70-130	0			
Surr: Toluene-dB	925.4	0	1000	Q	92.5	70-130	0			

Client ID: S.P. Sewer Line	Run ID;	VOA_I_	040202B	SeqNo	424	136	Prep Date: 1/28	/2004	DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Controt Limit	RPD Ref Value	%RPD	RPD Limit	Qua
1,1-Dichloroethene	975.7	100	1000	0	97.8	70-130	990.9	1.55	20	
1.2-Dichloroethane	942.8	100	1000	Q	94.3	70-130		2.34	0	
1,4-Dichiorobenzene	905	100	1000	0	90.5	70-130	927.4	2.44	0	
2-Butanone	1954	200	2000	0	97.7	70-130	1958	0.12	0	
Benzene	1026	100	1000	54.01	97.2	70-130	990.7	3.47	20	
Carbon tetrachioride	935.3	100	1000	0	93.5	70-130	930.1	0.564	0	
Chlorobenzene	939.8	100	1000	0	94	70-130	940.9	0.117	20	
Chloroform	969.1	100	1000	Ó	96.9	70-130	950.5	1.94	0	
Tetrachloroethene	974	100	1000	27.78	94.6	70-130	982.1	0.826	0	
Trichloroethene	959.8	100	1000	0	96	70-130	942.1	1.86	20	
Vinyi chloride	979.7	100	1000	0	98	70-130	979.3	0.0457	0	
Surr: 1,2-Dichloroethane-d4	841.9	0	1000	0	84.2	70-130	833.1	1.06	20	
Surr: 4-Bromofluorobenzene	1001	0	1000	0	100	70-130	994.4	0.65	20	
Surr: Dibromofluoromethane	902	0	1000	0	90.2	<sup>"</sup> 70-130	894.1	0.873	20	• ••••
Surr: Toluene-d8	820	0	1000	0	92	70-130	925.4	0.582	20	

The following samples were analyzed in this batch:

0401258-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

- . . . . . . S - Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits

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P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for hut not detected

E - Value above quantitation range

QC Page: 9 of 11

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CLIENT: Work Ord Project:	ler:	Navajo Refining Co 0401258 S.P. Sewer Line-Ar							QC	BATC	II RE	PORT
Batch ID: R1	8602	InstrumentID:	Wet Ch	emistry			•• =-					<u></u>
LCS	Samp	le ID: WLCSW1-01300	14		Tes	at Code: SW90	46 <del>B</del>	Units: p	H Units	Analysis D	ate: 01/30	/04 0:00
Client ID:			Run ID:	WET C	HEMISTRY	_0401 SeqNo	: <b>422</b>	2961	Prep Date:		DF: 1	
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH			6.01	0.10	6	0	100	B5-115		0		
DUP	Şamp	le ID: 0401229-09ADU	ρ		Tes	Code: SW90	45B	Units: pl	H Units	Analysis D	ate: 01/30	/04 0:00
Client ID:			Run ID:	WET C	HEMISTRY_	_0401 SeqNa	: 422	966	Prep Date:		DF: 1	
Analyte	<u>.</u> .		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pН			7.2	0.10	0	0	0	75-125	7.1	9 0.139	20	
The followin	ng aamy	olee were analyzed in	this batch:	04	01258-01A	••		• • • • • • • • • • • • • • • • • • • •				

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for bin not detected

E - Value above quantitation range

QC Page: 10 of 11

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#### 018/028

#### CLIENT: Navajo Refining Company Work Order: 0401258 Project: S.P. Scwer Line-Artesia

### **QC BATCH REPORT**

Datch ID: R18516 InstrumentID: Wet Chemistry DUP Sample ID: 0401268-01A DUP Test Code: SW846, Chpt. Units: Analysis Date: 01/30/04 0:00 Client ID: S.P. Sawer Line Run ID: WET CHEMISTRY\_0401 SeqNo: 423357 Prep Date: DF; 1 SPK Ref **RPD** Ref RPD Control Value Limit Value Limit Analyte Result POL SPK Val %REC %RPD Qual Burns vigorously and persistently ND 0 0 0 0 0-0 0 0 ۵ Ignites spontaneously ND 0 0 0-0 0 0 0 0 0 Ignites through friction ND 0 0 0 0-0 0 Ô 0 0 Ignites under std. temp and pressur ND Ó 0 0 0 0-0 0 0 0 ND 0 0 Ignites with moisture Q 0 0.0 D 0 0 0401258-01A

The following samples wore analyzed in this batch:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- O Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

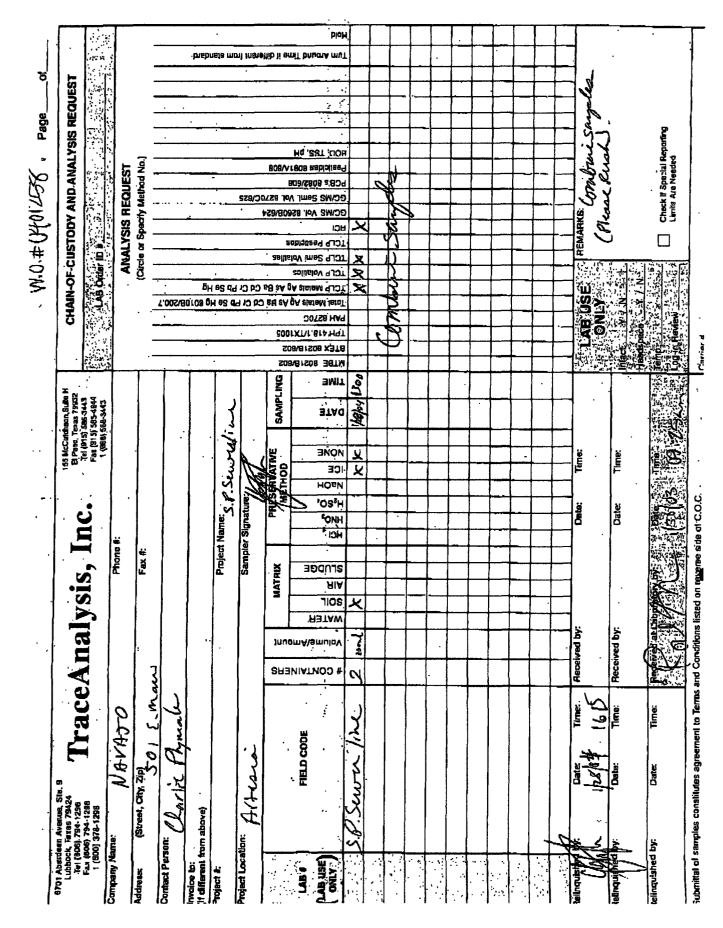
P - Dual Column results percent difference > 40%

B - Analyte detected in ussoc. Method Blank

- U Analyzed for but not detected
- E Value above quantitation range

QC Page: 11 of 11

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### e-Lab, Inc.

Date/Time Received: 1/30/2004 9:25:00 AM Client Name NAVAJO REFINING Received by: RNG Work Order Number 401 Reviewed by Checklist completed by Matrix: Carrier name: FedEx Yas 🗹 Not Present Shipping container/cooler in good condition? Yes 🗋 No 🗖  $\mathbf{Z}$ Not Present Custody seals intact on shipping container/cooler? Yea 🔲 V Not Present Custody seals intact on sample bottles? No 🗖 Yes 🗹 Chain of custody present? Yes 🗹 No 🗀 Chain of custody signed when relinquished and received? Yes 🗹 Chain of custody agrees with sample labels? Yes 🗹 Samplea In proper container/bottle7 No 🗌 Yes 🗹 Sample containers intact? No 🗆 Yes 🗹 Sufficient sample volume for indicated test? Yes 🗹 No 🗋 All samples received within holding time? Yes 🗹 Container/Temp Blank temperature in compliance? 003 3.2c Temperature(s)/Thermometer(s): Yes 🗌 No D No VOA viala submitted Water - VOA vials have zero headspace? Yes 🔲 NO 🗆 N/A 🗹 Water - pH acceptable upon receipt? Checked by Adjusted? Login Notes: Any No and/or NA (not applicable) response must be detailed in the comments section below. Date contacted: Person contacted Client contacted Contacted by: Regarding: Comments: Corrective Action -- . . . . . . . . . . . . . . . -----

Sample Receipt Checklist

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Wid. # 0401255.



### 02/06/2004 FRI 11:52 FAX 505 746 5283 NAVAJO D/O DEPT

e-Lab, Inc

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Date: February 04, 2004

CLIENT: Project: Work Order:	e-Lab, Inc 0401258 0402022		······	Work Order S	ample Sum	nary
	Client Sample ID 0401258-01B	<u>Matrix</u> Soil	<u>Tag Number</u>	Collection Date 1/28/2004 13:00	Date Received 2/3/2004 12:30	Hold

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SS Page 1 of 1

e-Lab, Inc

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Date: February 04, 2004

CLIENT: Project:	e-Lab, Inc 0401258					V	Vork Order:	0402022
Lab ID:	0402022-01A					Collection Date	: 1/28/2004 1:	:00:00 PM
<b>Client Sample</b>	D: 0401258-01D					Matrix	: SOIL	
Analyses		Result	Report Limit	Qual	Unita	Dilution Factor	D	ate Analyzed
CYANIDE, RE	ACTIVE			EPA 7	.3.3.2			Analyst: KAE
Cyanide, Reec	live	ND	0.030	00	mg/	Kg 1	2	/4/2004
SULFIDE, REA	ACTIVE			EPA 7	.3.4.2			Analyst: KAE
Sulfide, Reacti	<b>V8</b>	ND	40	.0	mg/	Kg 1	2	/4/2004

Qualifiers: ND - N

ND - Not Detected at the Reporting Limit

J - Analyto detocted below quantitation limits

- B Analyte detected in the associated Method Blank
- Velue exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 1 of 1

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e-Lab, Inc CLUENT: Work Order: Project:	e-Lab, Inc 0402022 0401258							QC	Date:	Feb 04 . CH RE	
Batch ID: R19082	instrumentilD:	WETCH	EM								
MBLK Sam Client ID:	ole ID: <b>WBLKR1-02040</b> 3	Run ID:	WETCH	Test IEM_049294	Code: EPA E SeqNo		Unita: m 249	ng/Kg Prep Date:	Analysis C	Dele 02/04 DF: 1	/94 0:00
Ansiyte	· · · · · · · · · · · · · · · · · · ·	Result	PQL	SPK Val	SPK Raf Value -	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	<u></u>	ND	0.090	<b>_</b>						······	
LCS Sam	Die ID: WLCSR1-020402	)		Test	Code: EPA	7.3.3.2	Unite: m	g/Kg	Analysis D	ate 02/04	/04 0:00
Client ID:		Run ID:	WETCH	(EM_040204	E SøgNa	: 277	250	Prop Date:		DF: 50	
Analyte .		Result	PQL	SPK Vai	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive		1.896	1.5	16.95	0	11.2	5-100		0		
The following sam	ples were analyzed in t	his batch:	04	02022-01A							

ND - Not Detected at the Reporting Limit

. .

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

8 - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Culumn results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

B - Value above quantitation range

QC Page: 1 of 2

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CLIENT: Work Order: Project:	e-Lab, Inc 0402022 0401258							QC	BATC	H RE	PORT
Batch ID: <b>R10084</b>	InstrumentID:	WETCH	EM								
MBLK Sam	ple ID: WBLKW1-02040	4	•••••	Test	Code: EPA	7.3.4.2	Units: mg	/Kg	Analysis D	ato 02/04	1/04 0:00
Client 1D:		Run ID:	WETCH	IEM_040204	F SeqNo	: 277	<b>267</b> F	rep Dale:		DF: 1	
Anglyte	<u></u>	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Valuo	%RPD	RPD Limit	Qusi
Sulfide, Reactive		ND	40								
The following san	nples were analyzed in t	his batch:	04	02022-01A				e			

ND - Not Detected at the Reporting Limit

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J - Analyte detected below quantitation limits

O - Referenced analyse value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Calama results percent difference > 40%

B - Analyte detected in axxoo. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 2 of 2



# THE REPRODUCTION OF

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FOLLOWING

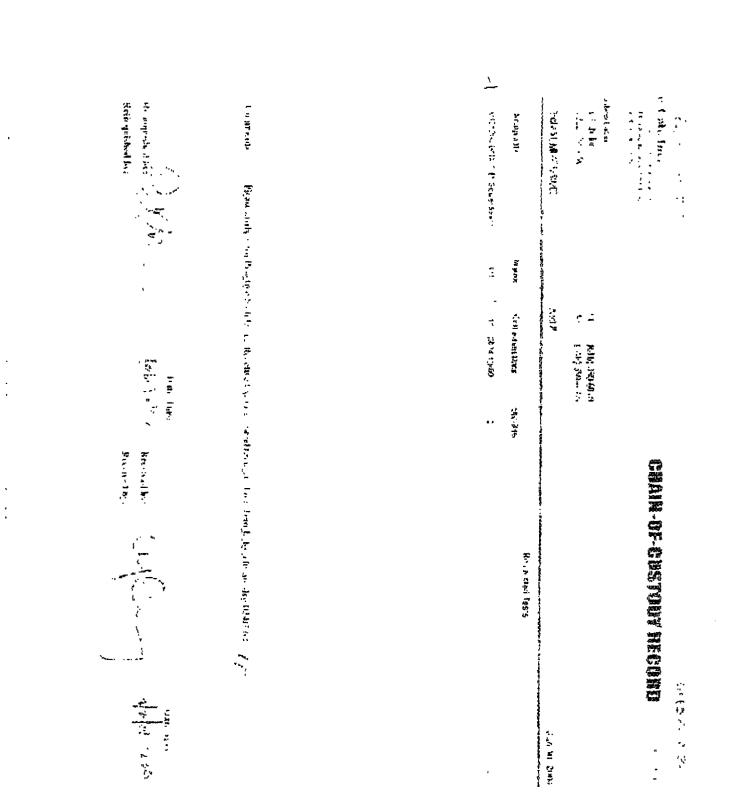
# **DOCUMENT (S)**

# **CANNOT BE IMPROVED**

### **DUE TO**

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### 02/06/2004 FRI 11:53 FAX 505 746 5283 NAVAJO D/O DEPT

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 **District III** 1000 Rio Brazos Road, Aztec, NM 87410 **District IV** 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources** 

> **Oil Conservation Division** 1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED

FEB 0 2 2004

Environmental Bureau

Oil Conservation Division

25262728

Form C-138 Revised June 10, 2003

> Submit Original Plus 1 Copy to Appropriate District Office

<b>REQUEST FOR APPROVAL TO ACCEP</b>	T SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: X	4. Generator Navajo Refining
□Verbal Approval Received: Yes  No X	5. Originating Site Artesia Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 E Main, Artesia, NM	
<ul> <li>9. <u>Circle One</u>:         <ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> <li>All transporters must certify the wastes delivered are only those consigned for transport</li> </ul> </li> </ul>	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be
An transporters must certify the wastes derivered are only mose consigned for transp	

**BRIEF DESCRIPTION OF MATERIAL:** 

RE: 01-27-04

Blast sand (CCR Heater).

Generated during the sandblasting of the inside of a heater.

Enclosed is non-exempt certificate of waste status and Analytical results and Chain of Custody

This approval is one time.

Estimated Volume 30 yards. Known Volume (to be entered by the operator at the end of the haul)

-cy SIGNATURE. TITLE: <u>Rep</u> DATE: 01-27-04 Waste Management Facility Authorized Agent 1-402020 TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079 E-MAIL ADDRESS david@crihobbs.com (This space for State Use TITLE: Environment Geologist DATE: 2-2-04 APPROVED B APPROVED BY: ///htton



### **REFINING COMPANY, L.P.**

FAX (505) 746-5283 DIV. ORDERS (505) 746-5481 TRUCKING (505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159 ARTESIA. NEW MEXICO 88211-0159 TELEPHONE (505) 748-3311 FAX (505) 746-5419 ACCOUNTING (505) 746-5451 EXEC/MKTG (505) 746-5451 ENGINEERING (505) 746-5480 PIPELINE

January 16, 2004

Ken Marsh CRI P.O. Box 388 Hobbs, NM 88214

Ken,

I would like to profile 2 roll off bins of blast sand from sandblasting the inside of our CCR heater tower. This material is NON HAZARDOUS and would be transported in 20 yard roll off bins by D & J waste haulers.

Sincer

Charlie Wilymale Sr. Environmental Specialist

Post-it* Fax Noto 7671	Dale 1/19/04 # of pages 4
To Ken Marsh	From Charlie Plymale
Co /Dapi CRT	Co. Navajo Refining Lo
Phone #	Phone #
Fax # 505.393-3615	Fax #

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#### CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: <u>Navajo Refining Company</u>
ADDRESS: 501 East Main
GENERATING SITE: Navajo Refining Company
COUNTY: Eddy
STATE:NM
TYPE OF WASTE:Blast Sand (CCR Heater)
ESTIMATED VOLUME: 30 yards
GENERATING PROCESS: <u>Generated during the sandblasting of the inside of</u>
REMARKS:Analysis enclosed
NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: \_\_\_\_ D and J Waste Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or pursuant to the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT:	MW
	SIGNATURE
NAME:	CHARLIE PLYMALE
	PRINTED
ADDRESS:	501 EAST MAIN
	ARTESIA, NM 88210
DATE:	1hiby
	1 1



e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5658 Fax 261-530-5667

January 16, 2004

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Charlie Plymale Navajo Refining Company P.O. Box 159 Artesia, New Mexico 88211

Tel: (505) 746-5241 Fax: (505) 746-5421

Re: TCLP CCR H. Bl. Sand

Dear Charlie Plymale,

Work Order : 0401038

e-Lab, Inc. received 1 sample on 1/7/2004 9:25:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 7.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Paulina A. Dauxome Lora Terrill VP Lab Operations 01/19/2004 MON 08:40 FAX 505 746 5283 NAVAJO D/O DEPT

12 004/009

e-Lab, Inc.

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<u>،</u> د

Date: January 16, 2004

CLIENT: Project:	Navajo Refining Company TCLP CCR H. Bl. Sand	Work Order Sample Summary
Work Order:	0401038	

Lab Sample I	O Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	Told
0401038-01	CCR H. Blast Sand	Soil		1/6/2004 10:00	1/7/2004 09:25	Ē

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### Q1/19/2004 MON 08:40 FAX 505 746 5283 NAVAJO D/O DEPT

e-Lab, Inc.

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Date: January 16, 2004

CLIENT: Work Order: Project;	Navajo Refining Compa 0401038 TCLP CCR H. Bl. Sand	ny			-	nt Sample ID; licction Date:		
Lab ID:	0401038-01					Matrix:	SOIL	
Analyses		Result	Report Limit	Qual	Units	Dilution Factor		Date Analyzed
	ES			SW13	11/8260B	Prep Date:	1/8/2004	Analyst: PC
Benzene		ND	10	0	µg/L	20		1/12/2004 8:29:00 PM
Surr: 1,2-Dich	loroelhane-d4	89.9	70-13	0	%REC	20		1/12/2004 8:29:00 PM
Surr: 4-Bromo	Muarobenzene	102	70-13	0	%REC	20		1/12/2004 8:29:00 PM
Surr: Dibromo	nuoromethane	89.5	70-13	0	%REC	20		1/12/2004 8:29:00 PM
Surr: Toluene	-d8	104	70-13	0	%REC	20		1/12/2004 8:29:00 PM

Qualifiers:

- ND Not Detected at the Reporting Limit
- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery autside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range
- H Analyzed outside of Hold Time

AR Page 1 of 1

Q1/19/2004 MON 08:40 FAX 505 746 5283 NAVAJO D/O DEPT

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MBLK Sam	ole ID: VBLKW-0112	·····	Test Code: SW1311/8250
Batch (D: R18214	InstrumentiD:	VOA3	
e-Lab, Inc. CLIENT: Work Order: Project:	Navajo Refining Con 0401038 TCLP CCR H. Bl. Sa		

MBLK	Sample ID: VBLKW-0112			Те	sl Code: SW13	11/8260	Units: p	g/L	Analysia	Date: 01/1	2/04 13:04
Client ID:		Run ID:	VOA3	_040112B	SeqNo	41	5337	Prep Date:		DF: 1	
					SPK Ref		Control	RPD Ref		RPD	
Analyte		Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
Benzene		ND	5.0								
Surr: 1,2	-Dichloroelhane-d4	45.89	Q	50	Q	91.8	70-130		0		
Surr: 4-8	Bromofluorobenzene	52.04	0	50	0	104	70-130		0		
Surr: Dib	promofluoromethane	47.12	0	50	0	94.2	70-130		0		
Surr: Tol	luene-d8	51.64	0	50	0	103	70-130		0		······································
MBLK	Sample ID: VBLKT1-0107			Tei	st Code: SW13	1/8260	Units: µ	g/L	Analysis (	Date: 01/1:	2/04 18:30
Client ID:		Run ID:	VOA3_	_040112B	SeqNo:	416	341	Prep Date: 1	/7/2004	DF: 20	
Analyta		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzana		ND	100								
Surr: 1,2-	-Dichloroethane-d4	852.2	0	1000	0	85.2	70-130		0		
Surr: 4-B	Iromofluorobenzene	1055	0	1000	0	105	70-130		0		• • • •
Surr: Dib	romofluoromethane	856.3	0	1000	0	85.6	70-130		0		
Surr: Tol	uene-d8	1054	0	1000	0	105	70-130		0		
MBLK	Sample ID: VBLKT2-0109			Tes	t Code: SW131	1/8260	Units: µg	r/L	Analysis D	)ale: 01/12	/04 18:59
Client ID;		Run ID:	VOA3_	040112B	SeqNo:	416	342	Prep Date: 1	/8/2004	DF: 20	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene		ND	100						•••••••••••••••••••••••••••••••••••••••		
Surr: 1,2-	Dichloroethane-d4	874.0	0	1000	0	67.5	70-130		0		
Surr: 4-Br	romofluorobenzene	1045	0	1000	0	105	70-130	······································	0		
Sum: Dibr	romofluoromethane	869.7	0	1000	o	87	70-130		0		
Surr: Tolu	Jene-d8	1045	0	1000	 0	104	70-130		0		
LCS	Sample ID: VLCSW-0112	<u>.</u> .		Tes	t Code: SW131	1/8260	Unils: µg	/L	Analysis D	ate: 01/12	/04 12:05
Client ID:		Run ID:	VOA3_	040112B	SeqNo:	4163	336	Prep Dale:		DF: 1	
Inalyte		Result	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limlt	Quai
lenzene		51.37	5.0	50	0	103	70.1-128		O		
Şurr: 1,2-l	Dichloroethane-d4	45.01	0	50	O	80	65.3-120		o		
C 4 D.		CR 05			· · · · · · · · · · · · · · · · · · ·				·		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

R - RPD outside accepted recovery limits

50

50

50

U - Analyzed for but not detected

0

0

0

O - Referenced analyte value is > 4 times amount spiked

53.95

46.68

52.55

0

0

0

F - Dual Column results percent difference > 40%.

0

0

0

108

93.4

105

74.9-115

70.5-119

72.6-119

E - Value above quantitation range QC Page: 1 of 2

Date: Jan 16 2004

QC BATCH REPORT

#### CLIENT: Navajo Refining Company Work Order: 0401038 **Project:** TCLP CCR H. Bl. Sand

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### QC BATCH REPORT

Balch ID: R1821	4 InstrumentiD:	EAOV						·· ·			
MS Sa	ample ID: 0401028-042M5			Te	st Code: SW13	11/8260	Units: µ	g/L	Analysis D	ate: 01/12	/04 14:03
Client ID;		Run ID:	VOA3_	0401128	SegNo	416	339	Prep Date:		DF: 250	
Anelyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Quat
Велгер		12080	1,200	12500	0	96.6	70-130		0		
Surr: 1,2-Dichi	oroethane-d4	11600	0	12500	0	92.8	70-130		0		
Surr: 4-Bromof	fluorobenzene	13370	0	12500	0	107	70-130		0		
Sutr: Dibromof	fluoromethane	11900	Q	12500	0	95.2	70-130		0		
Sur: Toluene-	d8	12970	0	12500	0	104	70-130	· ·			
	d8 mple ID: 0401028-042MSI		0		0 t Code: SW13				nelysis Da	ite: 01/12/	04 14:33
MSD Sa						1/8260	Units: µg		Anelysis Da	ite: 01/12/ DF: 250	04 14:33
		D		Tes	t Code: SW13	1/8260	Units: µg	/L	Anelysis Da		04 14:33 Quai
MSD Sau Client ID: Analyte		D Run ID:	V0A3_(	Tes 9401128	t Code: SW13 SeqNo: SPK Ref	11/8260 416	Units: µg 340 Control	//L Prep Date: RPD Ref	Anelysis Da %RPD	DF: 250 RPD	
MSD Sau Client ID: Analyte	mple ID: 0401028-042MSI	D Run ID: Result	VOA3_	Tes 0401128 SPK Val	t Code: SW13* SəqNo: SPK Ref Value	11/8260 416 %REC	Units: µg 340 Control Limit	//L Prep Date; RPD Ref Value	Anelysis Da %RPD 0 0.477	DF: 250 RPD Limit	
MSD Sar Client ID: Analyte Benzene	mple ID: 0401028-042MSI	Run ID: Result 12020	VOA3_0 POL 1,200_	Tes 0401128 SPK Val 12500	t Code: SW13 SəqNo: SPK Rəf Value 0	11/8260 416 %REC 96.2	Units: µg 340 Control Limit 70-130	//L Prep Date; RPD Ref Value 12086	Anelysis Da %RPD 0 0.477 0 1.69	DF: 250 RPD Limit 20	
MSD Sar Client ID: Analyte Benzene Surr: 1,2-Dichic	mple ID: 0401028-042MSI oroathane-04 fluorobenzene	D Run ID: Result 12020 11390	VOA3_0 PQL 1,200_0	Tes 9401128 SPK Val 12500 12500	t Code: SW13 SəqNo: SPK Ref Value 0 0	11/8260 416 %REC 96.2 91.1	Units: µg 340 Control Limit 70-130 70-130	//L Prep Date: RPD Ref Value 12080 11600	Anelysis De %RPD 0 0.477 0 1.89 0 0.638	DF: 250 RPD Limit 20	

ND - Not Detected at the Reporting Limit

..... . ...

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

E - Value above quantitation range

QC Page: 2 of 2

- P Dual Column results percent difference > 40%

- U Analyzed for but not detected

QUALTY-LANSCRITT- SERVICE     (Pax) 231.530.5887       QUALTY-LANSCRITT- SERVICE     Customer Information       Auronal Ocider     Customer Information       Auronal Ocider     Nanejo Refining Company       Auronal Namos     Charling Poment       Auronal Namos     SCB		Project Informati Project Informati Attania Plymatia P.D. Box 153 Attania, Now Mando (505) 745-5421 (505) 745-5421	auge <u>1</u> of <u>1</u> atticin atticin (C (2) 14, B) 1, S, J Company				20100000000000000000000000000000000000	(Pac) 616.399.6185	(6185 91424756		
Customer Information           Purchase Order         Customer Information           Montoficity         Name           Montoficity         Name           Company Name         Name           Series Papolity         Name           Series Papolity         Name           Series Papolity         Canton           Series Papolity         Canton           Series Papolity         Canton           Series Papolity         P.O. Box 168           Audres         Atasia, New Maston BBC11           Contraction         (SCB) 746-5421           Fish         (SCB) 746-5421		Project Informat Navajo Refining Co Charli e Pymala P.O. Box 158 Afteni e, New Mando (1505) 745-5421 (1505) 745-5421	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11			Parametric	1				the state
Puminasi Order Mini) Order Company Name Company Name Company Name Company Name Addres Addres Addres P.O. Box 138 P.O. Box 138 P.O. Box 138 P.O. Box 138 P.O. Box 138 P.O. Box 138 P.O. Box 138 Attasia. New Maxton B4211 Attasia. New Maxton B4211 Attasia. New Maxton B4211 Company Company Addres Addres (SCE) 748-5421		Navajo Refining Con Navajo Refining Con Charle Py, 199 P.D. Box 199 P.D. Box 199 P.D. Box 199 (SG5) 748-5471 (SG5) 748-5471	H, B1	New York			Methoc	Parameter/Method Request for Analysis	for Anal	vels	
M. Nigring M. Nigring M. Nigring M. Manualo Refining Company M. Chantia Phanale P.O. Ban 153 P.O. Ban 153 P.O. Ban 153 Attania, New Mantoo BBC11 Michael M. Calling M.	Navajo Refining Con Charli e Plymelia P.O. Box 159 Artenia, New Maedoo Artenia, New Maedoo (505) 745-5421 (505) 745-5421				Vijatine, Bununefaziti	有	- 4 - 5 7 - 7 7 - 7	· · .		· · ·	
My Naming Newsky Refining Company My Newsky Charlis Plymate P.O. Bau (58 My New Madro B62(1 My New My N		Newajo Refining Con Charl e Plymale P.O. Box (139 Artesis, New Maedoo (1505) 748-5421 (1505) 748-5421	Au ped		せいしん	B. A.	Brington		· 1^ .		
Ségré Parjon Toy Abort Toy Abort 153 P.O. Box 153 P.O. Box 153 P.O. Box 153 Abort 153 Atravia. New Maedco BB211 Atravia. New Maedco BB211 Atravia. New Maedco BB211 Atravia. (505) 745-5421 F 535 (505) 745-5421		Charll e Plymade P.D. Box 159 Arbeil e, Now Mardia (SG5) 748-3511 (SG5) 748-5421 (SG5) 748-5421		<u> </u>		<b>,</b>		• • • • •	· · · ;	 	- iv - 1- 1
P.O. Box (58 Address Construction Attania, New Mexico 882(1 Attania, New Mexico 882(1 Attania, New Mexico 882(1 Attania, New Mexico 882(1 F55 (505) 745-5421		P.D. Box 159 Arteel 8, New Mandos (SG5) 748-5421 (SG5) 748-5421		<u>çə</u> x			 			  .	·
Muchessy Attaila, New Markov B6211 Attaila, New Markov B6211 (505) 748-3311 (505) 748-5421 (505) 748-5421		Arbeile, Now Mandoo (BGS) 748-3511 (SQS) 748-5421		<b>C</b> T T	• • •	; . 	2 2 7. 2 2 m				 
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R. R. W. Sample, Disoription, (25) 533	10 4	00	Sum and the	CONTRACTOR AND	15 BE BAC	3 2 D V	<b>NEW WAR</b>	<b>U</b>	<b>MARKE</b>		<b>WHOLE</b>
ecc H. Blast Sand	1 1 2 0 /			<u> </u>	X	1. 1.	1:2 11 .2.1	:	, ,,!,? ,†;		
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### 01/19/2004 MON 08:41 FAX 505 746 5283 NAVAJO D/O DEPT

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<b>匂 008/008</b>	400	81	UU	8
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e-Lab, Inc.	··.					
	Sample Receipt	Checklist	· ·	· · ·	· ··	
			:	· .		· · ·
Client Name. <u>NAVAJO REFINING</u>		Dale/Tim	a Received:	1/7/2004	9:25:00 AN	<u>ن</u> ۱
Work Order Number 0404038		Received	by: <u>RSZ</u>			
Checkilst completed by	17/0t.	Reviewed	,	UT	Mr	54
	"Dela	• •	iniliais	1	Delo	
Matrix: Can	ter name: <u>FedEx</u>		• • •			•
	·	· · · · _ ·		_		
Shipping container/cooler in good condition?	Yeş 🗹		Not Present			
Custody seals intact on shipping container/cooler?	Yes 🗋	No 🗔	Not Present			
Custody seals intact on sample bottles?	Yes 🗋	No 🗆	Not Present		•	
Chain of custody present?	Yes 🗹	No 🗆		•••••	· · · ·	
Chain of custody signed when relinquished and received?	Y85 🗹	No 🗆			· ·	
Chain of cuelody agrees with sample labels?	Yes 🗹	No 🗖			•	•
Samples in proper container/bottle?	Yes 🗹	Νο				
Sample containers intect?	Yes 🗹	No 🗖				·
Sufficient sample volume for indicated test?	Yes 🗸	NO 🗖			•	•
All samples received within holding time?	Yes 🗹					
Container/Temp Blank temperature in compliance?	Yes 🗹		· ·			
Temperature(s)/Thermometer(s):	2.9c	003				
Water - VOA viais have zero headepace?	Yes 🗌			mitted 🖌		
Water - pH acceptable upon receipt?	Yes 🗌		/A 🗹			
Adjusted?		Checked by	~~~			
Login Notes:						· ·

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted	Data contacted;	Person contacted
Contacted by:	Regarding:	·
Commente;	·	
Corrective Action		

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c-Lab, Inc.			Date:					······
CLIENT: Navajo Relining Company						nt Sample ID:		
Work Order:	0312193				Co	ollection Date:	12/16/2003	10:00:00 AM
Project:	TCLP Parameters							
Lab ID:	0312193-03					Matrix:	SOLID	
Analyses		Result	Report Limit	Qual	Units _	Dilution Factor		Date Analyzed
TCLP MERCUR	Y	•		SW747	)	Prep Date	12/22/2003	Analyst: MG
Mercury		ND	0.00200		mg/L	1	1	2/23/2003 4:43:47 PM
TOLP METALS,	ICP			SW131*	/6020	Prep Date:	12/19/2003	Analyst SA
Arsenic		0.0958	0.0500		mg/L,	10		2/24/2003 12:42:00 PM
Barium		0,166	0.0500		mg/L	. 10		2/24/2003 12:42:00 PM
Cadmlum		ND	0.0500		mg/L	10		2/24/2003 12:42:00 PM
Chromlum		0.712	0.0500		mg/L	10		2/24/2003 12:42:00 PM
Load		ND	0.0500		mg/L	10	1	2/24/2003 12:42:00 PM
Selenium		ND	0.0500		mg/L	10	1	2/24/2003 12:42:00 PM
Silver		ND	0.0500		mg/L	10	1	2/24/2003 12:42:00 PM
CLP SEMIVOLATILES		SW1311/8270		Prep Date:	: 12/19/2003 Analyst: HV			
2,4,5-Trichloroph	enal	ND	10		µg/L	· 1		2/22/2003 6:03:00 PM
2,4,6-Trichloroph	enol	ND	10		µg/L	1	1	2/22/2003 6:03:00 PM
2,4-Dinitrotoluene	)	ND	10		µg/L	1	1:	2/22/2003 6:03:00 PM
Cresols, Total	•	ND	30		µg/L	1	1	2/22/2003 6:03:00 PM
Hexachlorobenze	ne	ND	10		µg/L	1	_ 1:	2/22/2003 8:03:00 PM
Hexachlorobutad	lene	ND	10		µg∕L	1	1:	2/22/2003 6:03:00 PM
Hexachioroethan	8	ND	10		1/g/l	1	1	2/22/2003 6:03:00 PM
Nitrobenzene		ND	10		µg/L	1	1:	2/22/2003 6:03:00 PM
Pentachlorophen	ol 🛛	ND	10		µg/L	1	. 1	2/22/2003 8:03:00 PM
Pyridine		ND	10		µg/L	1	1:	2/22/2003 6:03:00 PM
Sur: 2,4,6-Trib	romophenal	48.2	45-146		%REC	1	1:	2/22/2003 6:03:00 PM
Surn 2-Fluorob	iphenyt	58.4	55-120		%REC	1	1:	2/22/2003 6:03:00 PM
Sur: 2-Fluorop	henol	43.2	21-110		%REC	1	1:	2/22/2003 6:03:00 FM
Surr. 4-Terphe	nyl-d14	66.5	42-153		%REC	1	11	2/22/2003 8:03:00 PM
Sur: Nitrobenz	ene-d5	60.7	51-117		%REC	1	12	2/22/2003 8:03:00 PM
Surr: Phenol-de	3	25.8	10-110		%REC	1	12	2/22/2003 6:03:00 PM
TOLP VOLATILE	S		SW1311/8260B		Prep Date:	Prep Date: 12/17/2003 Analyst: HLBW		
1,1-Dichloroethen	9	ND	100		րց/Լ	20	1:	2/26/2003 3:59:00 PM
1,2-Dichloroethan		• ND	100		hð\r	20	12	2/28/2003 3:59:00 PM
1.4-Olchiorobanze	200	ND	100		µg/L	20		26/2003 3:59:00 PM
2-Bulanone		ND	200		µg/L	20		2/26/2003 3 59:00 PM
Benzene	- <b>4</b> -				µg/L	20		2/28/2003 3:59:00 PM
Carbon tetrachlori	ae	ND	100		µg/∟	20		26/2003 3:59:00 PM
Chlorobenzene		ND	100		µg/L	20		2/26/2003 3:59:00 PM
Chloroform		ND	100		µg/L	20		2/26/2003 3:59:00 PM
Tetrachlomethene	1	ND	100		µg/L	20		1/26/2003 3:59:00 PM
Trichloroethene		ND	100		hð\r	20		/26/2003 3:59:00 PM
Vinyi chioride		NO	100		µg/L	20	12	/26/2003 3:59:00 PM

J - Analyte detected below quantitation limits

P - Dusi Column results percent difference > 40%

B - Analyz detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

II - Analyzed outside of Hold Time

AR Page 5 of 6

01/20/2004 TUE 13:10 FAX 505 746 5283 NAVAJO D/O DEPT

kg003/004

### e-Lab, Inc.

#### Date: December 30, 2003

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Analyses		Result	Report	Quel Units	Dilution	Data Analyzad
Lab ID:	0312193-03				Matrix:	SOLID
Project:	TCLP Parameters					
Work Order:	0312193				<b>Collection Date:</b>	12/16/2003 10:00:00 AM
CLIENT:	Navajo Refining Com	oany		C	lient Sample ID:	CCR Heater Blast Sand
	· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·

Analyses	Reşult	Limit Qui	il Units	Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	94.7	70-130	%REC	20	12/26/2003 3:59:00 PM
Surr: 4-Bromofluorobenzene	95.9	70-130	%REC	20	12/26/2003 3:59:00 PM
Surr: Dibromotiuoromethane	94.9	70-130	%REC	20	12/26/2003 3:59:00 PM
Surr. Toluane-d8	93.6	70-130	%REC	20	12/26/2003 3:59:00 PM
CYANIDE, REACTIVE	SW-846				Analyst: MAG
Reactive Cyanide	ND	0.500	mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		SW-	Analyst: MAG		
Reactive Sulfide	ND	40.0	mg/Kg	1	12/29/2003
IGNITABILITY FOR SOLIDS		SW8	46, CHPT. 7.1.	2	Analyst: MG
Burna vigorously and persistently	No			1	12/18/2003
Ignites spontaneously	No			1	12/18/2003
Ignites through friction	No			1	12/18/2003
ignites under std. temp and pressure	No			1	12/18/2003
Ignites with moisture	No			1	12/16/2003
PH IN SOLID	SW9045B			Analyst: MG	
р <del>М</del>	8.10	0.100	pH Units	1	12/18/2003

Qualifices:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyza detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range
- H Analyzed outside of Hold Time

AR Page 6 of 6

PraceAnalysis, Inc.     Promer.     Promer.       Phone r.     Promer.     Promer.       Promer.     Promer.     Promer. <th>Project Name, Frank     Project Name, Frank       Project Name, Frank     Project Name, Frank       Proj</th> <th>15 Page of</th> <th>CHAIN-OF-CUSTODY AND ANALYSIS REQUEST</th> <th></th> <th>ANALYSIS REQUEST</th> <th>: (Circle or Specify Method No.)</th> <th></th> <th>۲ ۲ ۲ ۲</th> <th></th> <th></th> <th>909. 952200</th> <th>Postickas Postickas Postickas S 52ml, Vol. S 52ml, Vol. S 52ml, Vol. S 556 M S 566 M S 566 M S 566 M M S 566 M M S 566 M M S 566 M M S 566 M S 5660 M S 5660 M S 5660 M S 560 M S 560</th> <th>2002: 502: 502: 5029: 5029: 9029: 9029: 1021- 1021-</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>REMARKS:</th> <th></th> <th></th>	Project Name, Frank     Project Name, Frank       Proj	15 Page of	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		ANALYSIS REQUEST	: (Circle or Specify Method No.)		۲ ۲ ۲ ۲			909. 952200	Postickas Postickas Postickas S 52ml, Vol. S 52ml, Vol. S 52ml, Vol. S 556 M S 566 M S 566 M S 566 M M S 566 M M S 566 M M S 566 M M S 566 M S 5660 M S 5660 M S 5660 M S 560 M S 560	2002: 502: 502: 5029: 5029: 9029: 9029: 1021- 1021-								REMARKS:		
TraceAnalysis, Inc.     Issuedure       Prome R.     Name R.       Prome R.     Name R.       Prome R.     Prome R.       Prome R.       Prome R. <t< td=""><td>Base     TraceAnalysis, Inc.     Iss words       Market Number     Fast R     Fast R       And Ive Numer     Fast R       <t< td=""><td>W.0# (101/2/</td><td></td><td></td><td>A</td><td>(Circ</td><td>1.005/</td><td>Aoroa</td><td>_</td><td></td><td>2 69 2 2 69 2 2 69 2</td><td>6021BV602 9021BV602 9270C Metals Ag A Metals Ag A Metals Ag A</td><td>410 1 HAJ 1 /td><td>へ ス</td><td>××</td><td>x</td><td></td><td></td><td></td><td></td><td>LAB USE</td><td></td><td></td></t<></td></t<>	Base     TraceAnalysis, Inc.     Iss words       Market Number     Fast R     Fast R       And Ive Numer     Fast R <t< td=""><td>W.0# (101/2/</td><td></td><td></td><td>A</td><td>(Circ</td><td>1.005/</td><td>Aoroa</td><td>_</td><td></td><td>2 69 2 2 69 2 2 69 2</td><td>6021BV602 9021BV602 9270C Metals Ag A Metals Ag A Metals Ag A</td><td>410 1 HAJ 1 /td><td>へ ス</td><td>××</td><td>x</td><td></td><td></td><td></td><td></td><td>LAB USE</td><td></td><td></td></t<>	W.0# (101/2/			A	(Circ	1.005/	Aoroa	_		2 69 2 2 69 2 2 69 2	6021BV602 9021BV602 9270C Metals Ag A Metals Ag A Metals Ag A	410 1 HAJ 1	へ ス	××	x					LAB USE		
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01/20/2004 TUE 13:10 FAX 505 746 5283 NAVAJO D/O DEPT

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-138 Revised June 10, 2003

> Submit Original Plus 1 Copy to Appropriate District Office

## **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: Non-Exempt: X	4. Generator Tomsco, LLC
□Verbal Approval Received: Yes  No X	5. Originating Site Hobbs, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2621 ½ W. Marland, Hobbs,NM	
9. <u>Circle One</u> :	•
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accompanied by ne material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> </ul>	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for transp	
BRIEF DESCRIPTION OF MATERIAL:	stody
RE: 01-08-04	AN 2004 141
Blast sand & residue.	Hobbs 5
Sandblasting, Blast sand and residue from pumping units prior to painting.	
Enclosed is non-exempt certificate of waste status and Analytical results and Chain of Cu	stody \$20202358
This approval is good thru 01-08-05.	
Estimated Volume 50 yards/annually. Known Volume (to be entered by the operator at th	e end of the haul)cy
SIGNATURE Waste Management Facility Authorized Agent TITLE: <u>Rep</u> DATE:	<u>01-08-04</u>
TYPE OR PRINT NAME: <u>Kim Flowers</u> TELEPHONE NO. (505)393-1079	 >o
E-MAIL ADDRESS david@crihobbs.com	
(This space for State Use)	
APPROVED BY: THE GOVING E	DATE: 1.8.04 LI Geologist DATE: 1-12-04
APPROVED BY: Murtyn ght. TITLE: Environme	LI Geologist DATE: 1-12-04

01/07/2004 15:00 5	057466202	TOMSCO L	LC	PAGE Ø1
n 07 Q4 02:03p	CRI		5053933615	۲ ، ۹
		· · · ·		1 .
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"A	NON	FICATE OF WAS -EXEMPT WAST W MEXICO OIL C	E MATERIAL	DIVISION"
COMPANY /	GENERATOR_1	TOMSCO, LLC		· · ·
ADDRESS	P. O. Box 660	Artesia, NM	88211-0660	
GENERATIN	G SITE 2621 1/	2 W. Marland	Hobbs, NM	88240
		COUNTY Lea	STATE NM	
TYPE OF WA	STE <sup>Blast</sup> san			nits prior to paint
		yds. annually		
	-			
GENERATING	J PROCESS	dblasting		
REMARKS		<b></b>		
REMARKS		•	•	 
REMARKS		۲I		
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NMOCD FACE TRUCKING CO As a condit a non-exer (EPA) July will be ana nature as no or listed we and D, has	CF CF CMPANY CR CR CR CR CR CR CR CR CR CR CR CR CR	۲I	ection Agency's ledge, this waste (261 to verify the ledge "hazardous (261, Subparts C o make the resultant	13.
NMOCD FACE TRUCKING CO As a condit a non-exer (EPA) July will be ana nature as no or listed we and D, has	CF CF CMPANY CR CR CR CR CR CR CR CR CR CR CR CR CR	Lisposal, I hereby certify the Environmental Prot rmination. To my know rovisions of 40 CFR Par r certify that to my know povisions of 40 CFR, Part ed with the waste so as to	ection Agency's ledge, this waste (261 to verify the ledge "hazardous (261, Subparts C o make the resultant	13.
NMOCD FACT TRUCKING CO As a condit a non-exer (EPA) July will be ana nature as no or listed we and D, has	CF CF CF CF CF CF CF CF CF CF	RI disposal, I hereby certify the Environmental Prote remination. To my know rovisions of 40 CFR Par recrify that to my know ovisions of 40 CFR, Part ed with the waste so as to uant to the provisions of TE + 199 SIGNATURE as K. Scroggin	ection Agency's ledge, this waste t 261 to verify the ledge "hazardous 261, Subparts C o make the resultant 40 CFR, Sections 26	
NMOCD FACE TRUCKING CO As a condit a non-exer (EPA) July will be ana nature as no or listed we and D, has	CF CF CF CF CF CF CF CF CF CF	AI Aisposal, I hereby certify the Environmental Prot rmination. To my know rovisions of 40 CFR Par r certify that to my know povisions of 40 CFR, Par ad with the waste so as to uant to the provisions of TE 199 SIGNATURE	ection Agency's ledge, this waste t 261 to verify the ledge "hazardous 261, Subparts C o make the resultant 40 CFR, Sections 26	
NMOCD FACE TRUCKING CO As a condit a non-exer (EPA) July will be ana nature as no or listed we and D, has	CF CF CF CF CF CF CF CF CF CF	AI AI AI AI AI AI AI AI AI AI	ection Agency's ledge, this waste t 261 to verify the ledge "hazardous 261, Subparts C o make the resultant 40 CFR, Sections 26	

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# ASSAIGAI **ANALYTICAL** LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

21						
	3332 Wedgewood, Ste	. N • El Paso,	Texas 79925 •	(915) 593-6000 •	FAX	(915) 593-7820
	127 Eastgate Drive, 212	2-C • Los Ala	mos, New Mex	ico 87544 • (505)	662-2	255 Explanation of codes
					В	analyte detected in Method Blank
					E	result is estimated
					Н	analyzed out of hold time

CRI attn: DAVID PARSONS **BOX 388** HOBBS

NM 88241

в	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

STANDARD

Assaigai Analytical Laboratories, Inc.

# Certificate of Analysis

Client: Project: Order:	CRI TOMS 03123		RI01	Receipt: 12-11-03	William	P. Biava: Presic	lent of Assag	ai Analytical Lab	/ Poratories, In	<i>c.</i>	
Sample:	1			C	ollected: 12-1	0-03 10:00:0	00 By: 1	DP			
Matrix:	SANE	)									·····
QC Group	o R	Run Sequenc	e CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-0	D1A		SW846 10	10				By:	RAC		
SFL0365	v	VC.2003.3137.2	2	Flashpoint	> 60.0	Deg C	1	20		12-24-03	12-24-03
0312387-0	01A		SW846 35	50A/8270C SVOCs by GC/MS	- <b>1</b>			By:	DS		
X03629	х	G.2003.2305.3	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	G.2003.2305.3	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	G.2003.2305.3	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	G.2003.2305.3	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	G.2003.2305.3	90-12-0	1-Methylnaphthalene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	G.2003.2305.3	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	3	1.5		12-23-03	12-23-03
X03629	х	G.2003.2305.3	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	х	G.2003.2305.3	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	х	G.2003.2305.3	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	х	G.2003.2305.3	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	G.2003.2305.3	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	3	0.67		12-23-03	12-23-03
X03629	х	G.2003.2305.3	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	х	G.2003.2305.3	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	х	G.2003.2305.3	91-58-7	2-Chloronaphthalene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	G.2003.2305.3	95-57-8	2-Chlorophenol	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	G.2003.2305.3	91-57-6	2-Methylnaphthalene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	G.2003.2305.3	95-48-7	2-Methylphenol	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	(G.2003.2305.3	88-74-4	2-Nitroaniline	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	х	G.2003.2305.3	88-75-5	2-Nitrophenol	. ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	х	G.2003.2305.3	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	3	0.3	1	12-23-03	12-23-03
X03629	х	G.2003.2305.3		3+4 Methylphenol	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	х	G.2003.2305.3	99-09-2	3-Nitroaniline	ND	mg / Kg	3	0.3		12-23-03	12-23-03



SQLCoyote: Reports 1.0.0310221500XX Report Date 12/29/2003 4:25:14 PM

REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL. THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.



Collected: 12-10-03 10:00:00 By: DP

### Client: CRI Project: TOMS CO

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Order:

0312387 CRI01

Receipt: 12-11-03

Sample: 1

Matrix: SAND

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-01A		SW846 3550	A/8270C SVOCs by GC/MS				By:	DS		
X03629	XG.2003.2305.3	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	106-47-8	4-Chloroaniline	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	100-01-6	4-Nitroaniline	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	100-02-7	4-Nitrophenol	ND	mg / Kg	3	0.6		12-23-03	12-23-03
X03629	XG.2003.2305.3	83-32-9	Acenaphthene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	208-96-8	Acenaphthylene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	62-53-3	Aniline	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	120-12-7	Anthracene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3		Azobenzene&1,2- Diphenylhydrazine	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	56-55-3	Benzo (a) anthracene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	50-32-8	Benzo(a)pyrene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3		Benzo(b & k)fluoranthene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	64-85-0	Benzoic acid	ND	mg / Kg	3	3		12-23-03	12-23-03
X03629	XG.2003.2305.3	100-51-6	Benzyl alcohol	ND	mg / Kg	3	1.5		12-23-03	12-23-03
X03629	XG.2003.2305.3	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	117-81-7	bis(2-Ethylhexyl)phthalate	4.6	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	85-68-7	Butylbenzylphthalate	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	218-01-9	Chrysene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	132-64-9	Dibenzofuran	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	84-66-2	Diethylphthalate	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	131-11-3	Dimethylphthalate	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	84-74-2	di-n-Butylphthalate	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	117-84-0	di-n-Octylphthalate	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	206-44-0	Fluoranthene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	86737	Fluorene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	118-74-1	Hexachlorobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	87-68-3	Hexachlorobutadiene	ND	mg / Kg	3	0.03		12-23-03	
X03629	XG.2003.2305.3	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	3	1.5		12-23-03	
X03629	XG.2003.2305.3	67-72-1	Hexachloroethane	ND	mg / Kg	3	0.03			12-23-03
X03629	XG.2003.2305.3	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	3	0.3		12-23-03	
X03629	XG.2003.2305.3	78-59-1	Isophorone	ND	mg / Kg	3	0.03		12-23-03	
X03629	XG.2003.2305.3	91-20-3	Naphthalene	ND	mg / Kg	3	0.03		12-23-03	
X03629	XG.2003.2305.3	98-95-3	Nitrobenzene	ND	mg / Kg	3	0.03		12-23-03	
X03629	XG.2003.2305.3	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	3	0.3		12-23-03	
X03629	XG.2003.2305.3	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	3	0.03	1	12-23-0	

1.0.0310221500XX

Report Date 12/29/2003 4:25:15 PM



Assaigai Analytical Laboratories, Inc. Certificate of Analysis

Client: Project:	CRI TOMS CO									
Order:	0312387 CRI0	1	Receipt: <b>12-11-03</b>							
Sample:	1		Co	llected: 12-1	0-03 10:00:	00 By: /	DP			
Matrix:	SAND									
QC Group	o Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0242297 (	N4 A	CINOAC SEE	A/8270C SVOCs by GC/MS				By:	DS		
0312387-0 X03629	XG.2003.2305.3	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	87-86-5	Pentachlorophenol	ND	mg / Kg	3	0.05		12-23-03	
X03629	XG.2003.2305.3	85-01-8	Phenanthrene	ND		3	0.03		12-23-00	
	XG.2003.2305.3	108-95-2	Phenol		mg / Kg	3	0.03		12-23-03	
X03629		129-00-0		ND	mg / Kg				12-23-03	
X03629	XG.2003.2305.3		Pyrene	ND	mg / Kg	3	0.03			
X03629	XG.2003.2305.3	110-86-1	Pyridine	ND	mg / Kg	3	0.3		12-23-03	12-23-03
0312387-4	01A	SW846 8260	0B Purgeable VOCs by GC/MS				By:	va/cwj		
X03622	XG.2003.2288.11	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025	1	12-22-03	
X03622	XG.2003.2288.11	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025	1	12-22-03	
X03622	XG.2003.2288.11	67-64-1	Acetone	ND	mg / Kg	1	0.05	1	12-22-03	
X03622	XG.2003.2288.11	107-02-8	Acrolein	ND	mg / Kg	1	0.1	1	12-22-03	
X03622	XG.2003.2288.11	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1	1	12-22-03	
X03622	XG.2003,2288.11	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	12-22-03	
X03622	XG.2003.2288.11	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005	1	12-22-03	
X03622	XG.2003.2288.11	75-25-2	Bromoform	ND	mg / Kg	1	0.005	1	12-22-03	
X03622	XG.2003.2288.11	74-83-9	Bromomethane	ND	mg / Kg	1	0.025	1	12-22-03	
X03622	XG.2003,2288.11	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025	1	12-22-03	
X03622	XG.2003.2288.11	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.025	1	12-22-03	
X03622	XG.2003.2288.11	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	
X03622	XG.2003.2288.11	124-48-1	Chlorodibromomethane	ND	mg / Kg		0.005	1	12-22-03	
X03622 X03622	XG.2003.2288.11 XG.2003.2288.11	75-00-3	Chloroethane	ND		1	0.005	1	12-22-03	
X03622 X03622		67-66-3			mg / Kg				12-22-03	
	XG.2003.2288.11		Chloroform	0.006	mg / Kg	1	0.005	1		
X03622	XG.2003.2288.11	74-87-3	Chloromethane	ND	mg / Kg	1	0.025	1	12-22-03	
X03622	XG.2003.2288.11	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	
X03622	XG.2003.2288.11		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005	1	12-22-03	3 12-22-0

Report Date 12/29/2003 4:25:15 PM



Client: CRI

Project: TOMS CO

Order: 031

0312387

**CRI01** 

Receipt: 12-11-03

Sample: 1 Collected: 12-10-03 10:00:00 By: DP Matrix: SAND **Dilution Detection** Prep Run QC Group CAS # Analyte Result Units Factor Limit Code Date Date Run Sequence By: \A/CWJ 0312387-01A SW846 8260B Purgeable VOCs by GC/MS X03622 XG.2003.2288.11 74-95-3 Dibromomethane ND mg / Kg 0.005 1 12-22-03 12-22-03 1 X03622 XG.2003.2288.11 97-63-2 Ethyl methacrylate ND 1 0.025 1 12-22-03 12-22-03 mg / Kg X03622 XG.2003.2288.11 100-41-4 Ethylbenzene ND 0.005 12-22-03 12-22-03 mg / Kg 1 1 X03622 12-22-03 XG 2003 2288 11 Freon 113 ND 0.035 12-22-03 1 mg / Kg 1 X03622 XG.2003.2288.11 75-71-8 Freon 12 ND 12-22-03 12-22-03 mg / Kg 1 0.05 1 1634-04-4 X03622 XG.2003.2288.11 Methyl t-butyl ether (MTBE) ND mg / Kg 1 0.005 1 12-22-03 12-22-03 X03622 XG.2003.2288.11 75-09-2 Methylene chloride ND mg / Kg 1 0.05 1 12-22-03 12-22-03 XG.2003.2288.11 91-20-3 X03622 Naphthalene ND mg / Kg 1 0.025 1 12-22-03 12-22-03 X03622 XG.2003.2288.11 95-47-6 o-Xylene ND mg / Kg 1 0.005 1 12-22-03 12-22-03 X03622 XG.2003.2288.11 108-38-ND 1 0.01 12-22-03 12-22-03 p/m-Xylenes mg / Kg 1 3/106-42 X03622 XG.2003.2288.11 100-42-5 Styrene ND 0.005 12-22-03 12-22-03 mg / Kg 1 1 X03622 156-60-5 XG.2003.2288.11 t-1,2 Dichloroethene ND mg / Kg 1 0.005 1 12-22-03 12-22-03 X03622 XG.2003.2288.11 10061-02-6 t-1,3 Dichloropropene 0.005 12-22-03 12-22-03 ND mg / Kg 1 1 X03622 127-18-4 XG.2003.2288.11 ND Tetrachloroethene (PCE) mg / Kg 1 0.005 1 12-22-03 12-22-03 X03622 XG.2003.2288.11 108-88-3 Toluene ND mg / Kg 1 0.005 1 12-22-03 12-22-03 X03622 79-01-6 XG.2003.2288.11 Trichloroethene ND mg / Kg 1 0.005 1 12-22-03 12-22-03 75-69-4 X03622 XG.2003.2288.11 Trichlorofluoromethane ND 0.025 12-22-03 12-22-03 mg / Kg 1 1 X03622 XG.2003.2288.11 108-05-4 Vinyl acetate ND 0.025 12-22-03 12-22-03 mg / Kg 1 1 X03622 XG.2003.2288.11 75-01-4 Vinyl chloride ND 1 0.01 12-22-03 mg / Kg 1 12-22-03 0312387-01A SW846 Sect. 7.3 NJL Bv: W03507 WC.2003.3055.4 57-12-5 Cyanide, Reactive ND 250 12-16-03 12-17-03 mg / Kg 1 Sulfide, Reactive W03507 WC.2003.3082.3 ND mg / Kg 1 500 12-16-03 12-17-03 SW846-9045C 0312387-01A By: NJL SPH0342 WC.2003.3061.4 pН 8.7 units 1 0.1 2 12-17-03 12-17-03 SPH0342 WC.2003.3061.4 solid pH measured in water @ 21.3 deg C 1 0 12-17-03 12-17-03 0312387-01B SW846 1311/3010A/6010B ICP TCLP KDW By: M031719 MT.2003.1833.22 7440-38-2 12-29-03 Arsenic ND mg / L 1 0.2 12-24-03 M031719 7440-39-3 MT.2003.1832.18 12-29-03 Barium 1.0 mg / L 1 0.2 12-24-03 M031719 MT.2003.1833.22 7440-43-9 Cadmium ND mg / L 1 0.02 12-24-03 12-29-03 7440-47-3 M031719 MT.2003.1833.22 Chromium 0.28 mg / L 1 0.02 12-24-03 12-29-03 M031719 MT.2003.1833.22 7439-92-1 0.14 mg / L 1 0.1 12-24-03 12-29-03 Lead 7782-49-2 M031719 MT.2003.1833.22 Selenium ND 0.05 12-24-03 12-29-03 mg/L 1 M031719 MT.2003.1832.18 7440-22-4 12-24-03 12-29-03 Silver ND 0.04 mg / L 1 0312387-01B SW846 1311/7470A CVAA TCLP By: DAH M031720 MT.2003.1821.40 7439-97-6 Mercury ND mg/L 1 0.0002 12-24-03 12-24-03



Project:	CRI TOMS CO 0312387 CRI0	1 F	Receipt: 12-11-03							
Sample:	2		Cc	llected: 12-1	0-03 10:00:	00 Bv: 1	DP			
-	_					<b>,</b>				
Matrix:	SAND			_					· · · · ·	
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	-	Run Date
0312387-02	٥	SW846 1010	1				By:	RAC		
SFL0365	WC.2003.3137.3		Flashpoint	> 60.0	Deg C	1	20		12-24-03	12-24-0
		L				•				
0312387-02	2A	SW846 3550	A/8270C SVOCs by GC/MS				By:	DS		
X03629	XG.2003.2305.4	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	90-12-0	1-Methylnaphthalene	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	1	1.5		12-23-03	12-23-0
X03629	XG.2003.2305.4	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003.2305.4	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003.2305.4	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003.2305.4	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	1	0.67		12-23-03	12-23-0
X03629	XG.2003.2305.4	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003.2305.4	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003.2305.4	91-58-7	2-Chloronaphthalene	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	95-57-8	2-Chlorophenol	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	91-57-6	2-Methylnaphthalene	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	95-48-7	2-Methylphenol	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	88-74-4	2-Nitroaniline	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003.2305.4	88-75-5	2-Nitrophenol	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003.2305.4	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003.2305.4		3+4 Methylphenol	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	99-09-2	3-Nitroaniline	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003.2305.4	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003.2305.4	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	1	0.03			12-23-0
X03629	XG.2003.2305.4	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	1	0.3		12-23-03	
X03629	XG.2003.2305.4	106-47-8	4-Chloroaniline	ND	mg / Kg	1	0.3		12-23-03	
X03629	XG.2003.2305.4	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	1	0.03		12-23-03	
X03629	XG.2003.2305.4	100-01-6	4-Nitroaniline	ND	mg / Kg	1	0.00		12-23-03	
X03629	XG.2003.2305.4	100-02-7	4-Nitrophenol	ND	mg / Kg	1	0.6		12-23-03	
X03629	XG.2003.2305.4	83-32-9	Acenaphthene	ND	mg / Kg	1	0.03		12-23-03	
X03629	XG.2003.2305.4	208-96-8	Acenaphthylene	ND	mg / Kg	1	0.03		12-23-00	
X03629	XG.2003.2305.4	62-53-3	Acenaphinylene	ND		1	0.03		12-23-03	
					mg / Kg		~			
X03629 X03629	XG.2003.2305.4	120-12-7	Anthracene	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X00028	XG.2003.2305.4	l	Azobenzene&1,2- Diphenylhydrazine	ND	mg / Kg	1	0.03		12-20-03	12-23-0
X03629	XG.2003.2305.4	56-55-3	Benzo (a) anthracene	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	50-32-8	Benzo(a)pyrene	ND	mg / Kg	1	0.03	†	12-23-03	12-23-0
X03629	XG.2003.2305.4		Benzo(b & k)fluoranthene	ND	mg / Kg	1	0.03		12-23-03	12-23-0
X03629	XG.2003.2305.4	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	1	0.3		12-23-03	12-23-0
X03629	XG.2003,2305.4	64-85-0	Benzoic acid	ND	mg / Kg	1	3		12-23-03	12-23-0
X03629	XG.2003.2305.4	100-51-6	Benzyl alcohol	ND	mg / Kg	1	1.5	1	12-23-03	

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Report Date 12/29/2003 4:25:15 PM



# Assaigal Analytical Laboratories, Inc. Certificate of Analysis

Collected: 12-10-03 10:00:00 By: DP

### Client: CRI

Project: TOMS CO

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Order: 031

0312387 CRI01

Receipt: 12-11-03

Sample: 2

Matrix: SAND

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code		Run Date
0312387-02A		SW846 3550	A/8270C SVOCs by GC/MS				By:	DS		
X03629	XG.2003.2305.4	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	117-81-7	bis(2-Ethylhexyl)phthalate	4.9	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	85-68-7	Butylbenzylphthalate	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	218-01-9	Chrysene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	132-64-9	Dibenzofuran	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	84-66-2	Diethylphthalate	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	131-11-3	Dimethylphthalate	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	84-74-2	di-n-Butylphthalate	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	117-84-0	di-n-Octylphthalate	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	206-44-0	Fluoranthene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	86737	Fluorene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	118-74-1	Hexachlorobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	87-68-3	Hexachlorobutadiene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	1	1.5		12-23-03	12-23-03
X03629	XG.2003.2305.4	67-72-1	Hexachloroethane	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	78-59-1	Isophorone	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	91-20-3	Naphthalene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	98-95-3	Nitrobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	1	0.03		12-23-03	
X03629	XG.2003.2305.4	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	87-86-5	Pentachlorophenol	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	85-01-8	Phenanthrene	ND	mg / Kg	1	0.03		12-23-03	
X03629	XG.2003.2305.4	108-95-2	Phenol	0.60	mg / Kg	1	0.3		12-23-03	
X03629	XG.2003.2305.4	129-00-0	Pyrene	ND	mg / Kg	1	0.03		12-23-03	
X03629	XG.2003.2305.4	110-86-1	Pyridine	ND	mg / Kg	1	0.3		12-23-03	12-23-03
0312387-02A		SW846 826	0B Purgeable VOCs by GC/MS				By:	\A/CWJ		
X03622	XG.2003.2288.12	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-0
X03622	XG.2003.2288.12	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-0
X03622	XG.2003.2288.12	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-0
X03622	XG.2003.2288.12	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-0
X03622	XG.2003.2288.12	106-93 <b>-</b> 4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-0
X03622	XG.2003.2288.12	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-0
X03622	XG.2003.2288.12	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-0
X03622	XG.2003.2288.12	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-0
X03622	XG.2003.2288.12	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-0



#### Client: CRI

Project: TOMS CO

Order: 03

0312387

**CRI01** 

Receipt: 12-11-03

Sample: 2 Collected: 12-10-03 10:00:00 By: DP Matrix: SAND **Dilution Detection** Prep Run QC Group CAS # Analyte Result Units Factor Limit Code Date Date **Run Sequence** By: \A/CWJ SW846 8260B Purgeable VOCs by GC/MS 0312387-02A 95-63-6 0.005 12-22-03 12-22-03 1,2,4-Trimethylbenzene ND X03622 XG.2003.2288.12 mg / Kg 1 1 X03622 XG.2003.2288.12 541-73-1 1,3 Dichlorobenzene ND mg / Kg 1 0.005 1 12-22-03 12-22-03 108-67-8 12-22-03 X03622 XG 2003 2288 12 1,3,5-Trimethylbenzene ND mg / Kg 1 0.005 1 12-22-03 X03622 XG.2003.2288.12 764-41-0 1.4 Dichloro-2-butene ND mg / Kg 1 0.05 1 12-22-03 12-22-03 12-22-03 106-46-7 12-22-03 X03622 XG.2003.2288.12 1,4 Dichlorobenzene ND mg / Kg 1 0.005 1 78-93-3 ND 0.025 1 12-22-03 12-22-03 X03622 XG.2003.2288.12 2-Butanone (MEK) mg / Kg 1 X03622 XG.2003.2288.12 591-78-6 2-Hexanone (MBK) ND mg / Kg 1 0.025 1 12-22-03 12-22-03 XG.2003.2288.12 108-10-1 4-Methyl-2-pentanone (MIBK) ND 0.025 12-22-03 12-22-03 X03622 mg / Kg 1 1 X03622 XG.2003.2288.12 67-64-1 Acetone mg / Kg 0.05 12-22-03 12-22-03 ND 1 1 107-02-8 X03622 XG.2003.2288.12 Acrolein ND 1 0.1 12-22-03 12-22-03 mg / Kg 1 107-13-1 X03622 XG 2003 2288 12 Acrylonitrile ND 1 0.1 1 12-22-03 12-22-03 mg / Kg 71-43-2 X03622 XG 2003 2288 12 Benzene ND mg / Kg 1 0.005 1 12-22-03 12-22-03 X03622 XG.2003.2288.12 75-27-4 Bromodichloromethane ND 1 0.005 12-22-03 12-22-03 1 mg / Kg 75-25-2 X03622 XG.2003.2288.12 ND 1 0.005 12-22-03 12-22-03 Bromoform mg / Kg 1 74-83-9 12-22-03 X03622 XG 2003 2288 12 12-22-03 Bromomethane ND mg / Kg 1 0.025 1 X03622 XG.2003.2288.12 75-15-0 Carbon disulfide ND mg / Kg 1 0.025 1 12-22-03 12-22-03 12-22-03 X03622 XG 2003 2288 12 56-23-5 Carbon tetrachloride ND mg / Kg 1 0.005 1 12-22-03 X03622 XG.2003.2288.12 108-90-7 Chlorobenzene ND 0.005 12-22-03 12-22-03 mg / Kg 1 1 124-48-1 X03622 XG.2003.2288.12 Chlorodibromomethane ND 1 0.005 1 12-22-03 12-22-03 mg / Kg X03622 XG.2003.2288.12 75-00-3 ND 12-22-03 12-22-03 Chloroethane mg / Kg 1 0.025 1 X03622 XG.2003.2288.12 67-66-3 ND 0.005 12-22-03 12-22-03 Chloroform mg / Kg 1 1 74-87-3 X03622 XG.2003.2288.12 12-22-03 ND 0.025 12-22-03 Chloromethane mg / Kg 1 1 X03622 XG.2003.2288.12 156-59-2 12-22-03 cis-1,2 dichloroethene ND mg / Kg 1 0.005 1 12-22-03 X03622 XG.2003.2288.12 cis-1,3 Dichloropropene ND mg / Kg 1 0.005 1 12-22-03 12-22-03 X03622 XG 2003 2288 12 74-95-3 Dibromomethane ND mg / Kg 1 0.005 1 12-22-03 12-22-03 97-63-2 X03622 XG.2003.2288.12 Ethyl methacrylate ND 1 0.025 1 12-22-03 12-22-03 mg / Kg X03622 100-41-4 1 XG 2003 2288 12 ND 0.005 1 12-22-03 12-22-03 Ethylbenzene mg / Kg X03622 XG.2003.2288.12 0.035 12-22-03 12-22-03 Freon 113 ND mg / Kg 1 1 75-71-8 12-22-03 X03622 XG 2003 2288 12 Freon 12 ND 0.05 12-22-03 mg / Kg 1 1 X03622 XG.2003.2288.12 1634-04-4 0.005 12-22-03 12-22-03 Methyl t-butyl ether (MTBE) ND mg / Kg 1 1 75-09-2 X03622 XG.2003.2288.12 Methylene chloride 0.05 12-22-03 ND mg / Kg 1 1 12-22-03 91-20-3 X03622 XG.2003.2288.12 Naphthalene ND 1 0.025 1 12-22-03 12-22-03 mg / Kg 95-47-6 X03622 XG.2003.2288.12 o-Xylene ND mg / Kg 1 0.005 1 12-22-03 12-22-03 X03622 XG.2003.2288.12 108-38-ND 1 0.01 1 12-22-03 12-22-03 p/m-Xylenes mg / Kg 3/106-42 X03622 XG.2003.2288.12 100-42-5 Styrene ND 1 0.005 1 12-22-03 12-22-03 mg / Kg 156-60-5 X03622 XG.2003.2288.12 t-1,2 Dichloroethene ND 0.005 1 12-22-03 12-22-03 mg / Kg 1

X03622

X03622

X03622

X03622

X03622

X03622

XG.2003.2288.12

XG.2003.2288.12

XG.2003.2288.12

XG.2003.2288.12

XG 2003 2288 12

XG.2003.2288.12

10061-02-6

127-18-4

108-88-3

79-01-6

75-69-4

108-05-4

t-1,3 Dichloropropene

Tetrachloroethene (PCE)

Toluene

Trichloroethene

Trichlorofluoromethane

Vinyl acetate

ND

ND

ND

ND

ND

ND

1

1

1

1

1

1

12-22-03

12-22-03

12-22-03

12-22-03

12-22-03

12-22-03

12-22-03

12-22-03

12-22-03

12-22-03

12-22-03

12-22-03

0.005

0.005

0.005

0.005

0.025

0.025

1

1

1

1

1

1

mg / Kg

mg / Kg

mg / Kg

mg / Kg

mg / Kg

mg / Kg



Client: Project: Order:	CRI TOM 0312	IS CO 1387 CRI(	)1	Receipt: <b>12-11-03</b>							
Sample:	2			Со	llected: 12-1	0-03 10:00:0	00 By: 1	DP			
Matrix:	SAN	D									
QC Group	p	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-0	02A		SW846 826	0B Purgeable VOCs by GC/MS				By:	√A/CWJ		
X03622		XG.2003.2288.12	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01	1	12-22-03	12-22-03
0312387-0	02A		SW846 Sec	.t. 7.3	1			By:	NJL		
W03507		WC.2003.3055.5	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		12-16-03	12-17-03
W03507		WC.2003.3082.4		Sulfide, Reactive	ND	mg / Kg	1	500		12-16-03	12-17-03
0312387-	02A		SW846-904	5C				By:	NJL		
SPH0342		WC.2003.3061.5		рН	8.7	units	1	0.1	2	12-17-03	12-17-03
SPH0342		WC.2003.3061.5		solid pH measured in water @	21.4	deg C	1	0		12-17-03	12-17-03
0312387-0	02B		SW846 131	1/3010A/6010B ICP TCLP				By:	KDW		
M031719		MT.2003.1833.23	7440-38-2	Arsenic	ND	mg / L	1	0.2		12-24-03	12-29-03
M031719		MT.2003.1832.19	7440-39-3	Barium	1.0	mg / L	1	0.2		12-24-03	12-29-03
M031719		MT.2003.1833.23	7440-43-9	Cadmium	ND	mg / L	1	0.02		12-24-03	12-29-03
M031719		MT.2003.1833.23	7440-47-3	Chromium	0.33	mg / L	1	0.02		12-24-03	12-29-03
M031719		MT.2003.1833.23	7439-92-1	Lead	0.13	mg / L	1	0.1		12-24-03	12-29-03
M031719		MT.2003.1833.23	7782-49-2	Selenium	ND	mg / L	1	0.05		12-24-03	12-29-03
M031719		MT.2003.1832.19	7440-22-4	Silver	ND	mg / L	1	0.04		12-24-03	12-29-03
0312387-	02B		SW846 131	1/7470A CVAA TCLP				By:	DAH		
M031720		MT.2003.1821.41	7439-97-6	Mercury	ND	mg / L	1	0.0002		12-24-03	12-24-03

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

<sup>1</sup> Sample was received with headspace.

<sup>2</sup> The pH batch was analyzed at 14:00.

MEMO: Please note that Sample 2 was received in an improper container.

City / State / Zip 40 565 Client Contract / Purchase Order / Quote Project Name / Number\_ Address\_ ナーーチャ Shipment No. 903-Method of Shipment 7 N MYZ Special Instructions: Signature Relinquished by: Company ( Reason Printed to the vision AAU Fraction 8888 1995 1995 20000  $\mathcal{F}$ Bax 388 ASSAIGAI ANALYTICAL LABORATORIES, INC. L H ONS CO 112-460-8 Tarso NS men 12-10-25 Date 8824 10:10 a.n . 7-10-13 N. 51 - 10-51 20-2 15-2 5-0-2 Chain of Custody Record Signature\_ Comments: Received by: Printed <sub>2</sub> The second Reason Company Fax No. Samplers : (signature) Telephone No. 505 - 393 - 1079 Project Manager / Contact Devid Tarsons Locky Contractions CUSTODY SEAL North No. Ś R 505-West Star a Contribution Page \_ 家庭 -1240 20/11/2 2 3,93-3615 CARRIER ę. tionom Moren Company Set 1 Reason Printed Signature **Relinquished by** 王か be rest N, o SHELL SHIP 1 ۲ ¢ ¢ C 14.10 5 Date Time Z, After analysis, samples are to be: 4301 Masthead N.E. ALBUQUERQUE, NEW MEXICO 87109 (505) 345-8964 All all 127 EASTGATE DRIVE, 212-C LOS ALAMOS, NEW MEXICO 87544 (505) 662-2558 Analysis Required 3332 WEDGEWOOD EL PASO, TEXAS 79925 (915) 593-6000 1.3 Stored over 30 days (additional fee) Stored (30 days max) Disposed of (additional fee) Returned to customer **Received by:** Reason Company Signature Printed -AND -\*

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources** 

JAN 1 2 2004

RECEIVED

Form C-138 Revised June 10, 2003

**Oil Conservation Division** 1220 South St. Francis Dr. OIL CONSERVATION Santa Fe, NM 87505

DIVISION

Submit Original Plus 1 Čopy to Appropriate District Office

### **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt:  Non-Exempt: X	4. Generator Navajo Refining
□Verbal Approval Received: Yes No X	5. Originating Site Artesia, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 East Main, Artesia, NM	
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be accompanied one certificate per job. All requests for approval to accept non-exempt wastes must be accompanied by	-

material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved

All transporters must certify the wastes delivered are only those consigned for transport.

#### **BRIEF DESCRIPTION OF MATERIAL:**

RE: 01-07-04

Activated Alumina from Alky unit.

Activated Alumina used in Alky unit.

Enclosed is non-exempt certificate of waste status and Analytical results and Chain of Custody

This approval is good thru 01-07-05.



2-208010

Estimated Volume <u>400 yards/annually</u>. Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE Waste Management Facility Authorized Agent

TITLE: Rep DATE: 01-07-04

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

#### E-MAIL ADDRESS david@crihobbs.com

(This space for State Use)		
APPROVED BY	TITLE: ENJIRO ENGR	DATE: 1.8.04
APPROVED BY: Marty 934 -	TITLE: Environmental 6 cologist	DATE: <u>1-8-04</u>

4

#### CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: <u>Navajo Refining Company</u>

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Activated alumina from our Alky Unit

ESTIMATED VOLUME: <u>100 yards</u> grtly

GENERATING PROCESS: <u>activated alumina used in our alky unit</u>

REMARKS: TCLP analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: \_\_\_\_ D and J Waste

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR. Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT:	lon
-	SIGNATURE
NAME:	Charlie Plymale
	PRINTED
ADDRESS:	501 EAST MAIN
	ARTESIA, NM 88210
DATE:	17/04



# **REFINING COMPANY, L.P.**

FAX (505) 746-5283 DIV. ORDERS (505) 746-5481 TRUCKING (505) 746-5458 PERSONNEL

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501 EAST MAIN STREET • P. O. BOX 159 ARTESIA, NEW MEXICO 88211-0159 TELEPHONE (505) 748-3311 FAX (505) 746-5419 ACCOUNTING (505) 746-5451 EXEC/MKTG (505) 746-5451 ENGINEERING (505) 746-5480 PIPELINE

January 7, 2004

Ken Marsh	Post-it* Fax Note 7671	Dale - 17-09 # of pages /8
CRI	TO KEN MARSH	From ChARLIE PVMALE
P.O. Box 388	Co./Dept. CRT	Co. NAVAIO REFINING
Hobbs, NM 88214	Phone #	Phone #
Ken,	Fax * 505-393-3615	Fax #

I would like to re-profile activated alumina from our sulfur recovery units into your facility. We would also like to profile the activated alumina from our Alky Unit. This material is NON HAZARDOUS by TCLP. I am enclosing a copy of the TCLP from e-Lab.

If you have any question feel free to contact me at (505) 746-5241 or (505) 365-4298.

Sinc Plymale onmental Specialist

An Independent Refinery Serving .... NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO



10450 Standiff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

December 30, 2003

Charlie Plymale Navajo Refining Company P.O. Box 159 Artesia, New Mexico 88211

Tel: (505) 746-5241 Fax: (505) 746-5421

**Re:** TCLP Parameters

Dear Charlie Plymalc,

Work Order : 0312193

c-Lab, Inc. received 3 samples on 12/17/2003 9:22:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 28.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Petrins A Dathome Lora Terrill VP Lab Operations

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Datc: December 30, 2003

CLIENT:	Navajo Refining Company		
Project:	TCLP Parameters	Work Order Sample Su	mmarv
Work Order:	0312193		J

	<u>D Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	Collection Date	Date Received Hold
NH -0312193-01	SRU Act Alumina	Solid		12/16/2003 10:40	12/17/2003 09:22
MA -0312193-02	∧lky Act Alumina	Solid		12/16/2003 10:30	12/17/2003 09:22 📋

5

Date: December 30, 2003

CLIENT: Work Order: Project:	Navajo Refining Com 0312193 TCLP Parameters	pany				nt Sample ID: illection Date:	12/16/2003	
Lab ID:  Analyses	0312193-01	Result	Report Limit	Qual Un	its	Matrix: Dilution Factor	SOLID 	Date Analyzed
				<b>~</b>		TACLOI		•
TCLP MERCUR Mercury	Y	ND	0.00200	SW7470	mg/L	Prep Date: 1	12/22/2003	Analyst: MG 12/23/2003 4:19:55 PI
TCLP METALS.	ICP			8W1311/6	020	Prep Date:	12/19/2003	Analyst: SA
Arsenic		ND	0.0500	)	mg/L	10	•	2/23/2003 8:22:00 PI
Barium		ND	0.0500	)	mĝ/L	10	1	2/23/2003 8:22:00 PI
Cadmium		ND	0.0500	)	mg/L	10	1	2/23/2003 B:22:00 P!
Chromium		0.0697	0.0500	)	mg/L	10	1	2/23/2003 8:22:00 PM
Lead		ND	0.0500	ł	mg/L	10	1	2/23/2003 8:22:00 PI
Selenium		ND	0.0500	1	mg/L	10	1	2/23/2003 8:22:00 PM
Şilver		ND	0.0500	I	mg/L	10	1	2/23/2003 8:22:00 PM
	ATILE8			SW1311/8	270	Prep Date:	12/19/2003	Analyst: HV
2,4,5-Trichloroph	enol	ND	10	1	μ <b>g</b> /L	1	1	2/22/2003 5:37:00 PM
2,4,6-Trichloroph	enol	ND	10	)	µg/L	1	1	2/22/2003 5:37:00 PM
2,4-Dinitrotoluen	8	ND	10	)	µg/L	. 1	1	2/22/2003 5:37:00 PM
Cresols, Total		ND	30	1	μ <b>g/</b> L	1	•	2/22/2003 5:37:00 PM
Hexachlorobenze	200	ND	10		µg/L	1	1	2/22/2003 5:37:00 PM
Hexachlorobutad	liene	ND	10		µg/L	1	1	2/22/2003 5:37:00 PM
Hexachloroethan	e	ND	10		µg/L	1	1	2/22/2003 5:37:00 PM
Nitrobenzene		ND	10		µg/L	1	1	2/22/2003 5:37:00 PM
Pentachlorophen	ol	ND	10		µg/L	1	1	2/22/2003 5:37:00 PM
Pyridine		ND	10		µg/L	1	1	2/22/2003 5:37:00 PM
Surr: 2,4,8-Tril	bromophenol	93.3	45-146		%REÇ	1	1	2/22/2003 5:37:00 PM
Surr: 2-Fluorol	biphenyl	79.5	55-120		%REC	1	1	2/22/2003 5:37:00 PM
Surr: 2-Fluorog	phenol	54.8	21-110		%REC	1	1	2/22/2003 5:37:00 PM
Surr: 4-Terphe	nyl-d14	94.1	42-153		%REC	1	1	2/22/2003 5:37:00 PM
Surr: Nitroben:	zene-d5	77.6	51-117		%REC	1	1	2/22/2003 5:37:00 PM
Surr: Phenol-d	6	3 <b>2</b> .1	10-110		%REC	1	1	2/22/2003 5:37:00 PM
	ES			SW1311/8	260B	Prep Date:	12/17/2003	Analyst: HLBW
1,1-Dichloroether	ne	ND	100		µg/L	20	1	2/28/2003 3:30:00 PM
1,2-Dichloroethai	ne	ND	100		µg/L	20	1	2/26/2003 3:30:00 PM
1,4-Dichlorobenz	ene	ND	100		µg/L	20	1	2/26/2003 3:30:00 PM
2-Butanone		ND	200		µg/L	20		2/28/2003 3:30:00 PM
Benzene		ND	100		µg/L	20		2/26/2003 3:30:00 PM
Carbon tetrachio	ride	ND	100		μg/L	20		2/26/2003 3:30:00 PM
Chlorobenzene		ND	100		µg/L	20		2/26/2003 3:30:00 PM
Chloroform		ND	100		µg/L	20		2/26/2003 3:30:00 PM
Tetrachloroethen	e	ND	100		μg/L	20		2/28/2003 3:30:00 PM
Trichioroethene		ND	100		µg/L	20		2/26/2003 3:30:00 PM
Vinyl chloride		ND	100		µg/L	20		2/26/2003 3:30:00 PM

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

• - Value exceeds Maximum Contaminant Level

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 1 of 6

#### Date: December 30, 2003

CLIENT:	Navajo Refining Com	pany		c	lient Sample ID:	SRU Act Alumina
Work Order:	0312193				<b>Collection Date:</b>	12/16/2003 10:40:00 AM
Project:	TCLP Parameters					
Lob ID:	0312193-01				Matrix:	SOLID
Analyses		Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dich	loroethane-d4	94.0	, 70-130	%R	EC 20	12/26/2003 3:30:00 PM
Surr: 4-Bromo	fluorobenzene	96.8	70-130	%R	EC 20	12/26/2003 3:30:00 PM
Surr: Dibromo	fluoromethane	94.9	70-130	%R	EC 20	12/26/2003 3:30:00 PM
Surr: Toluene	-d8	93.5	70-130	%R	EC 20	12/26/2003 3:30:00 PM
CYANIDE, REA	CTIVE			SW-846		Analyst: MAG
Reactive Cyanid	e	0.0545	0.0300	mg/	Kg 1	12/29/2003
SULFIDE, REAC	CTIVE			SW-846		Analyst MAG
Reactive Sulfide		ND	40.0	mg/	Kg 1	12/29/2003
	OR SOLIDS			SW846, CHPT	, 7.1.2	Analyst: MG
Burns vigorously	and persistently	No		·	1	12/18/2003
Ignites spontane	ously	No			1	12/18/2003
Ignites through fi	riction	No			1	12/18/2003
Ignites under std	. temp and pressure	No			1	12/18/2003
ignites with mois	iture	No			1	12/18/2003
PH IN SOLID				SW8045B		Analyst MG
рH		360	0,100	pH (	Jnits 1	12/18/2003

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantization range
- H Analyzed outside of Hold Time

AR Page 2 of 6

1

Date: December 30, 2003

CLIENT:	Navajo Refining Com	nany			Clier	nt Sample ID:	Alky Act A	lumina
Wark Order:	0312193				Co	llection Date:	12/16/2003	10:30:00 AM
Project:	TCLP Parameters							
Lab ID:	0312193-02					Matrix:	SOLID	
Analyses		Result	Report Limit	Qual	Units	Dilution Factor		Date Analyzed
TCLP MERCUR	(			SW747	<i>'</i> 0	Prep Date:	12/22/2003	Analyst: MG
Mercury		ND	0.0020	3	mg/L	1		12/23/2003 4:31:10 PM
TCLP METALS,	ICP			SW131	1/6020	Prep Date:	12/19/2003	Analyst: SA
Arsenic		0.308	0.0500		mg/L	10		12/24/2003 12:37:00 PM
Barlum		ND	0.0500		mg/L	10	•	12/24/2003 12:37:00 PM
Cadmium		ND	0.050		mg/L	10		12/24/2003 12:37:00 PM
Chromium		ND	0.0500		mg/L	10		12/24/2003 12:37:00 PM
Lead		ND	0.050		mg/L	10		12/24/2003 12:37:00 PM
Selenium		0.0510	0.0500		mg/L	10		12/24/2003 12:37:00 PM
Silver		ND	0.0500		mg/L	10		12/24/2003 12:37:00 PM
	ATILES			SW131	1/8270	Preo Date	12/19/2003	Analyst: HV
2,4,5-Trichlorophi		ND	1(		µg/∟	1		12/22/2003 6:28:00 PM
2,4,6-Trichloroph		ND	1(	)	µg/L	1		12/22/2003 6:28:00 PM
2,4-Dinitrotoluene		ND	1(		μg/L	1		12/22/2003 6:28:00 PM
Cresols, Total	1.5mg/b	1,500	300		μg/L	10		12/23/2003 8:20:00 PM
Hexachlorobenze		ND	1(		µg/L	1		12/22/2003 8:28.00 PM
Hexachiorobutadi		ND	10		µg/L	1		12/22/2003 6:28:00 PM
Hexachloroethan		ND	10		µg/L	1		12/22/2003 6:28:00 PM
Nitrobenzene	•	ND	10		µg/L	1		12/22/2003 6:28:00 PM
Pentachloropheno	h	ND	10		µg/L	۰ ۱		12/22/2003 6:28:00 PM
Pyridine ,84		840	100		µg/L	, 10		12/23/2003 8:20:00 PM
Surr: 2,4,6-Trib	-1	91.2	45-146		%REC	10		12/22/2003 6:28:00 PM
Sur: 2,4,6-Trib	•	136	45-146		%REC	10		12/23/2003 8:20:00 PM
Surr: 2-Fluorob	•	83.2	55-120		%REC	10		
Surr: 2-Fluorob		108	55-120		%REC	10		12/22/2003 6:28:00 PM 12/23/2003 8:20:00 PM
Surr: 2-Fluorop	• •	58.6	21-110			10		
Surr: 2-Fluorop		70.0	21-110		%REC			12/22/2003 6:28:00 PM
Surr: 4-Terpher		95.4	42-153		%REC	10 10		2/23/2003 8:20:00 PM
Surr: 4-Terpher	•		42-153		%REC			2/23/2003 8:20:00 PM
Surt: Nitrobenz	•	112 97.6			%REC	1		2/22/2003 6:28:00 PM
			51-117		%REC	1		2/22/2003 6:28:00 PM
Surr: Nitrobenz Surr: Phenol-de		110	51-117 10-110		%REC	10		2/23/2003 8:20:00 PM
Sur: Phenol-de		48.2 43.3	10-110		%REC %REC	10		2/22/2003 6:28:00 PM 2/23/2003 8:20:00 PM
TCLP VOLATILE 1.1-Dichloroethen		ND	100		1/8260B µg/L	Prep Date: 20	12/17/2003	Analyst: HLBW 12/26/2003 4:27:00 PM
1.2-Dichloroethan		ND	100		µg/∟	20		2/26/2003 4:27:00 PM
1,4-Dichlorobenze	-	ND	100		µg/L	20		2/28/2003 4:27:00 PM
2-Butanona		5,400	200			20		12/26/2003 4:27:00 PM
Benzene		5,400 ND	100		µg/L µg/L	20		2/26/2003 4:27:00 PM

J - Analyte detected below quantitation llinhs

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

P - Dual Column results percent difference > 40%

E - Value above quantitation range

11 - Analyzed outside of Hold Time

AR Page 3 of 6

12

CLIENT;	Navajo Refining Company
Work Order:	0312193
Project:	TCLP Parameters
Lab ID:	0312193-02

#### Date: December 30, 2003

Client Sample ID: Alky Act Alumina Collection Date: 12/16/2003 10:30:00 AM

#### Matrix: SOLID

Analyses	Result	Report Limit Qu	al Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	ND	100	µg/L	20	12/26/2003 4:27:00 PM
Chiorobenzene	ND	100	µg/L	20	12/28/2003 4:27:00 PM
Chloroform	ND	100	μ <b>ο</b> /L	20	12/26/2003 4:27:00 PM
Tetrachloroethene	ND	100	µg/L	20	12/26/2003 4:27:00 PM
Trichloroethene	ND	100	µg/L	20	12/26/2003 4:27:00 PM
Vinyl chloride	ND	100	µg/L	20	12/26/2003 4:27:00 PM
Surr: 1.2-Dichloroethane-d4	96.0	70-130	%REC	20	12/26/2003 4:27:00 PM
Surr: 4-Bromofluorobenzene	99.0	70-130	%REC	20	12/26/2003 4:27:00 PM
Surr; Dibromofluoromethane	<del>96</del> .1	70-130	%REC	20	12/26/2003 4:27:00 PM
Sur: Toluene-d8	<b>92</b> .6	70-130	%REC	20	12/26/2003 4:27:00 PM
CYANIDE, REACTIVE		sw	-846		Analyst: MAG
Reactive Cyanide	ND	0.500	mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		ŚW	-846		Analyst MAG
Reactive Sulfide	ND	40.0	mg/Kg	1	12/29/2003
IGNITABILITY FOR SOLIDS		SW	846, CHPT. 7.	.1.2	Analyst: MG
Burns vigorously and persistently	No			1	12/18/2003
Ignites spontaneously	No			1	12/18/2003
Ignites through friction	No			1	12/18/2003
Ignites under std. temp and pressure	No			1	12/18/2003
Ignites with moisture	No			1	12/18/2003
PH IN SOLID		SW	9045B		Analyst: MG
pH	6.99	0.100	pH Uniț	s 1	12/18/2003

Qualifiers:

ND - Nor Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range
- H Analyzed outside of Hold Time

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	5701 Abardeen Avanue, Sia. Lubbock, Texas 79424 Tel (806)-794-1296	ХЩ-	uompany Name:	i;	Contact Person	brvaice to: Af different from above)	*	Project Location:		LAB -			1. 1. 1. 1.								Y			Relinquished by:	T T
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Client Name NAVA IO REFINING Work Order Number 0315193 Checklist completed by Signality	12/17/63	Date/Time Received: <u>12/17/2003 9:22:00 AM</u> Received by: <u>RSZ</u> Reviewed by <u>JP</u> U <u>18</u> 83 Initials <u>Bite</u>
Matrix:	Carrier name: <u>E-Lab</u>	
Shipping container/cooler in good condition?	Yes 🗹	No Not Present
Custody seals intact on shipping container/coo	ler? Yes 🗆	No 🗌 🖉 Not Present 📝 🗾
Custody seals intact on cample bottles?	Yes 🗋	No Not Present
Chain of custody present?	Yes 🕅	
Chain of custody signed when relinquished and	i received? Yes 🗹	No 🗖
Chain of custody agrees with sample labels?	Yes 🔽	No
Samples in proper container/bottle?	Yes 🗹	No 🗆
Sample containers intact?	Yes 🗹	No 🗔
Sufficient sample volume for indicated test?	Yes 🗹	No 🗔
All samples received within holding time?	Yes 🗹	No 🗇
Container/Temp Blank temparature in complian	nce? Yes 🗹	No
Temperature(s)/Thermometer(s):	3.20	003
Watar - VOA vials have zero headspace?	Yes 🖸	No 🔲 No VOA viais submitted 🗹
Water - pH acceptable upon receipt?	Yes 🗖	No 🗋 N/A 🗹
	Adjusted? Cl	hecked by
Login Notes:		
Any No and/or NA (not epplicable) response m	ust be detailed in the comments section	n below.
<b></b>		•
Client contacted	Date contacted:	Parson contacted
Contacted by:	Regarding:	
Commonis:		
	• •	······································
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Corrective Action		
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Sample Receipt Checklist

### ·01/07/2004 WED 10:41 FAX 505 746 5283 NAVAJO D/O DEPT

e-Lab, Inc

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Date: December 30, 2003

CLIENT: Project: Work Order:	e-Lah, Inc 0312193 0312281			Work Order Sample Summary
Lab Sample ID	Client Sample ID	Matrix	Tag Number	Collection Date Date Received Hold
0312281-01	0312193-01B	Solid		12/16/2003 10:40 12/19/2003 10:40 🛄
0312281-02	0312193-02B	Solid		12/16/2003 10:30 12/19/2003 10:40 🛄
0312281-03	0312193-03B	Solid		12/16/2003 10:00 12/19/2003 10:40

SS Page 1 of 1

Date: December 30, 2003

	o-Lab, Inc 0312193					w.	ork Order:	0312281
Lab ID: Client Sample ID:	0312281-01A 0312193-01B				C	Collection Date: Matrix:		0:40:00 AM
Analyses		Result	Report Limit	Qual	Units	Dilution Factor	D	ate Analyzed
CYANIDE, REACT Cyanida, Reactive	IVE	ND	0.50		7.3.3.2 mg/K	g 1	1	Analyst: KAE 2/29/2003
SULFIDE, REACTI Sulfide, Reactive	VE	ND	40		7.3.4.2 mg/K	g 1	1:	Analyst: <b>KAE</b> 2/29/2003
Lab ID: Client Sample ID:	0312281-02A 0312193-02B				C	Collection Date: Matrix:		0:30:00 AM
Analyses		Result	Report Limit	Qual	Units	Dilution Factor	Di	ate Analyzed
CYANIDE, REACT Cyanide, Reactive	VE	ND	0.50	<b>EPA</b> 7 0	<b>.3.3.2</b> mg/K	g 1	1;	Analyst: KAE 2/29/2003
SULFIDE, REACTI Suifido, Reactive	VE	ND	40	<b>EPA 7</b> 0	7.3.4.2 mg/Kj	<b>a</b> 1	1:	Analyst: KAE 2/29/2003
Lab ID: Client Sample ID:	0312281-03A 0312193-03B				C	Collection Date: Matrix:		0:00:00 AM
Analyses		Result	Report Limit	Qual	Units	Dilution Factor	Da	ate Analyzed
CYANIDE, REACT Cyanido, Reactivo	VE	ND	0.50	<b>EPA 7</b> 0	′.3.3.2 mg/Kį	g 1	1:	Analyst: KAE 2/29/2003
SULFIDE, REACTI Suilide, Reactive	VE	, ND	40.	<b>EPA</b> 7 0	<b>.3.4.2</b> mg/Kg	g 1	1;	Analyst: KAE 2/29/2003

Qualificre:

ND - Not Detected at the Reporting Limit

I - Analyte detected below guarditation limits

H - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Daal Column results percent difference > 40%

B - Value above quantization range

.... ..

H - Analyzed cusside of Hold Time

AR Page 1 of 1

Dute: Dec 30 2003

e-Lab, I	inc									Dute:	Dec 30	2003
CLIENT: Work Ord Project:		e-Lab, Inc 0312281 0312193							QC	BATC	CH RE	PORT
Batch ID: R	18310	InstrumentiD:	WETCH	EM		•						
MBLK	Samp	He ID: WBLKW1-12160	 19		Test	Code: EPA?	7.3.3.2	Ųnits: n	ng/Kg	Analysis [	)ste 12/1	/03 0:00
Client ID:			Run ID:	WETC	HEM_031218	A SeqNo	: 260	5613	Prep Date:		DF: 1	
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Raf Value	%RPD	<b>RPD</b> Limit	Qual
Cyanide, Re	active		ND	0.50								
MBLK	Samp	Ne ID: WBLKR1-12290	3		Test	Code: EPA7	7.3.3.2	Units: n	ng/Kg	Anglysis (	)ste 12/29	00:0 60/
Client ID:			Run ID:	WETC	HEM_031218	A SeqNo	: 267	763	Prep Date:		DF; 1	
Analyle			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanida, Re	active		ND	0.50								
LCS	Samp	He ID: WLCSW1-12180	3		Test	Code: EPA 7	7.8.3.2	Unite: n	ng/Kg	Analysis D	ate 12/18	V03 0:00
Client ID:			Run ID:	WETC	HEM_031218	a SogNo	: 266	5814	Prep Date:		DF: 1	
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Re	active		3.923	0.50	16,95	0	23.1	5-100		0		
LCO	Samp	te ID: WLCSR1-12290	8		Test	Code: EPA7	.3.3.2	Unite: m	nø/Kø	Analysis C	ate 12/29	/03 0:00
Client ID:			Run ID:	WETC	KEM_031218	A SeqNo	: 267	764	Prep Dete:		DF: 1	
Analyte			Result	PQL	SPK Val	3PK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Re	active		3.664	0. <del>5</del> 0	16.95	O	21.6	5-100		0		`
The followi	ng sam	pics were enalyzed in t	this betch:	0	312281-01A	03122	81-02A	·03	12281-03A			

0312281-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyze value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits B - Analyte detected in assoc. Method Blank

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 1 of 2

.

CLIENT: Work Order: Project:	e-Lab, Inc 0312281 0312193							QC	BATC	HRE	PORT
Batch ID: R18453	instrumenti D:	WETCH									
MBLK Sam Client ID:	ple (D: WBLKR1-12280)	) Run ID:	WETCI	Tei HEM_03122	N Code: EPA 19H SeqN		Units: mj 706 i	<b>yKg</b> Prep Date:	Analysis D	ata <b>12/2</b> 9 DF: 1	/03 0:00
Anaiyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPO Ref Value	%RPD	RPD Limit	Quai
Sulfide, Reactive		ND	40				<b></b> .				
The following ear	ngles were analyzed in	this batch:	03	12281-01A	0312	2281-02A	031	2281-03A			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

Q - Referenced analyte value is > 4 times amount spiked

6 - Spike Recovery outside accepted recovery limits

R - RPD cutaide accepted recovery limits

P - Dual Column scruits percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range QC Page: 2 of 2 <u>District 1</u>
 1625 N. French Dr., Hobbs, NM 88240
 <u>District II</u>
 1301 W. Grand Avenue, Artesia, NM 88210
 <u>District III</u>
 1000 Rio Brazos Road, Aztec, NM 87410
 <u>District IV</u>
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-138 Revised June 10, 2003

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Submit Original Plus 1 Copy to Appropriate District Office

### **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt:  Non-Exempt: X	4. Generator Navajo Refining				
□Verbal Approval Received: Yes No X	5. Originating Site Artesia, NM				
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J				
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico				
7. Location of Material (Street Address or ULSTR) 501 East Main, Artesia, NM					
9. <u>Circle One</u> :					
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste clarapproved	ecessary chemical analysis to PROVE the				

All transporters must certify the wastes delivered are only those consigned for transport.

#### **BRIEF DESCRIPTION OF MATERIAL:**

RE: 01-07-04A

Activated Alumina from sulfur recovery unit.

Activated Alumina used in sulfur recovery unit.

Enclosed is non-exempt certificate of waste status and Analytical results and Chain of Custody

This approval is good thru 01-07-05.

Estimated Volume <u>400 yards/annually</u>. Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE Waste Management Facility Authorized Agent

TITLE: <u>Rep</u> DATE: <u>01-07-04</u>

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

(This space for State Use)		
APPROVED BY. The southers	TITLE: ENJIRO ENER	DATE: 1.8.04
APPROVED BY: Environmal Godogist	TITLE: Environment Coologis 2	DATE: <b>1-8</b> -04

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#### CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: Navajo Refining Company
ADDRESS: 501 East Main
GENERATING SITE: <u>Navajo Refining Company</u>
COUNTY: Eddy
STATE: NM
TYPE OF WASTE: Activated alumina from sulfur recovery units
ESTIMATED VOLUME: 300 yards grtly
GENERATING PROCESS: activated alumina used in sulfur recovery units
REMARKS: TCLP analysis enclosed

NMOCD FACILITY: Controlicd Recovery Incorportated

TRUCKING COMPANY: \_\_\_\_ D and J Waste

As a condition of acceptance for disposal, 1 hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added on more d with the waste so as to make the resultant mixture a "hazardous waste" pursuant to provisions of 40 CFR, Sections 2613.

AGENT:	1 Min
	SIGNATURE
NAME:	Charlie Plymale
	PRINTED
ADDRESS:	501 EAST MAIN
	ARTESIA, NM 88210
DATE:	1/7/04

Ø001/019



# **REFINING COMPANY, L.P.**

FAX (505) 746-5283 DIV. ORDERS (505) 746-5481 TRUCKING (505) 746-5458 PERSONNEL

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501 EAST MAIN STREET • P. O. BOX 159 ARTESIA, NEW MEXICO 88211-0159 TELEPHONE (505) 748-3311 FAX (505) 746-5419 ACCOUNTING (505) 746-5451 EXEC/MKTG (505) 746-5451 ENGINEERING (505) 746-5480 PIPELINE

January 7, 2004

Ken Marsh	Post-It <sup>®</sup> Fax Note 7671	Date - 17-09 # of > 18
CRI	TO KEN MARSH	From Charlis PYMALE
P.O. Box 388	Co./Dept. CR.T	Co. NAVAIO REFINING
Hobbs, NM 88214	Phone #	Phone #
Ken,	Fax # 505-393-3615	Fax # .æ

I would like to re-profile activated alumina from our sulfur recovery units into your facility. We would also like to profile the activated alumina from our Alky Unit. This material is NON HAZARDOUS by TCLP. I am enclosing a copy of the TCLP from e-Lab.

If you have any question feel free to contact me at (505) 746-5241 or (505) 365-4298.

Sinc Plymale ronmental Specialist

An Independent Refinery Serving .... NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO



10450 Standiff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5687

December 30, 2003

Charlie Plymale Navajo Refining Company P.O. Box 159 Artesia, New Mexico 88211

Tel: (505) 746-5241 Fax: (505) 746-5421

Re: TCLP Parameters

Dear Charlie Plymalc,

Work Order : 0312193

c-Lab, Inc. received 3 samples on 12/17/2003 9:22:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 28.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Elestroncatly approved by: Patrine A. Dathome Lora Terrill VP Lab Operations e-Lab, Inc. Date: December 30, 2003
CLIENT: Navajo Refining Company
Project: TCLP Parameters Work Order Sample Summary
Work Order: 0312193
Lab Sample ID Client Sample ID Matrix Tag Number Collection Date Date Received Hold

Lab Sample 1	D Client Sample ID	<u>Matrix</u>	<u>Tag Number</u>	Collection Date	Date Received	Hold
NH -0312193-01	SRU Act Alumina	Solid		12/16/2003 10:40	12/17/2003 09:22	
NA -0312193-02	Alky Act Alumina	Solid		12/16/2003 10:30	12/17/2003 09:22	
						i l

SS Page 1 of 1

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Date: December 30, 2003

CLIENT:	Navajo Refining Com	ралу		Client Sample ID: Collection Date:				
Work Order:	0312193						: 12/16/2003 10:40:00 AM	
Project:	TCLP Parameters							
Lab ID:	0312193-01					Matrix:	SOLID	
Analyses		Result	Report Limit	Qual	Units	Dilution Factor		Date Analyzed
TCLP MERCUR	Y			SW747	)	Prep Date	12/22/2003	Analyst MG
Mercury		ND	0.0020	כ	mg/L	1	1	2/23/2003 4:19:55 PM
TCLP METALS.	ICP			8W131-	1/6020	Prep Date:	12/19/2003	Analyst: SA
Arsenic		ND	0.0500	3	mg/∟	10	1	2/23/2003 8:22:00 PM
Barium		ND	0.0500	)	mĝ/∟	10	1	2/23/2003 B:22:00 PM
Cadmium		ND	0.050	>	mg/L	10	1	2/23/2003 8:22:00 PM
Chromium		0.0697	0.0500	)	mg/L	10	1	2/23/2003 8:22:00 PM
Lead		ND	0.0500	)	mg/L	10	1	2/23/2003 8:22:00 PM
Selenium		ND	0.0500	)	mg/L	10	1	2/23/2003 8:22:00 PM
Şilver		ND	0.0500	)	mg/L	10	1	2/23/2003 B:22:00 PM
	ATILE8			SW1311	/8270	Prep Date:	12/19/2003	Analyst: HV
2,4,5-Trichloroph	henol	ND	10	)	µg/L	1		2/22/2003 5:37:00 PM
2.4.6-Trichloroph	nenol	ND	10	)	µg/L	1		2/22/2003 5:37:00 PM
2,4-Dinitrotoluen	8	ND	10		µg/L	1		2/22/2003 5:37:00 PM
Cresols, Total		ND	30		µ <b>0/</b> L	1		2/22/2003 5:37:00 PM
Hexachlorobenzo	₽ <b>∩</b> ₿	ND	10		µg/L	١		2/22/2003 5:37:00 PM
Hexachlorobutad		ND	10		µg/L	1		2/22/2003 5:37:00 PM
Hexachioroethan	98	ND	10		h8/L	1		2/22/2003 5:37:00 PM
Nitrobenzene		ND	10		hð\r	1		2/22/2003 5:37:00 PM
Pentachloropher	nol (	ND	10		µg/L	1		2/22/2003 5:37:00 PM
Pyridine		ND	10		µg/L	1		2/22/2003 5:37:00 PM
Surr: 2,4,6-Tri		93.3	45-146		%REC	. 1		2/22/2003 5:37:00 PM
Sur: 2-Fluoro		79.5	55-120		%REC	1		2/22/2003 5:37:00 PM
Sur: 2-Fluaro		54.8	21-110		%REC	1		2/22/2003 5:37:00 PM
Surr. 4-Terphe		94.1	42-153		%REC	1		2/22/2003 5:37:00 PM
Surr: Nitroben: Surr: Phenol-d		77.6 32.1	51-117 10-110		%REC %REC	1		2/22/2003 5:37:00 PM 2/22/2003 5:37:00 PM
	5		•	<b>8W1</b> 311	/82608	Preo Date:	12/17/2003	Analyst: <b>HLBW</b>
1.1-Dichloroether		ND	100		μg/L	20		2/28/2003 3:30:00 PM
1.2-Dichloroethal		ND	100		µg/L	20		2/26/2003 3:30:00 PM
1,4-Dichlombenz		ND	100		µg/L	20		/26/2003 3:30:00 PM
2-Butanone		ND	200		µg/L	20		2/28/2003 3:30:00 PM
Benzene		ND	100		μg/L	20		25/2003 3:30:00 PM
Carbon tetrachio	ide	ND	100		µg/L	20		/26/2003 3:30:00 PM
Chlorobenzene		ND	100		µg/L	20		/26/2003 3:30:00 PM
Chloroform		ND	100		µg/L	20		/26/2003 3:30:00 PM
Tains ablass all a R	-	ND	100			20		100000 2:20:00 BM

Vinyl chloride

Tetrachloroethene

Trichloroethene

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

ND

ND

ND

100

100

100

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

20

20

20

P - Dual Column results percent difference > 40%

E - Value above quantitation range

µg/L

µg/L

µg/L

H · Analyzed outside of Hold Time

AR Page 1 of 6

12/28/2003 3:30:00 PM

12/26/2003 3:30:00 PM

12/26/2003 3:30:00 PM

# Date: December 30, 2003

CLIENT: Work Order:	Navajo Refining Com 0312193 TCLP Parameters	pany				-	SRU Act Alumina 12/16/2003 10:40:00 AM
Project: Lah ID:	0312193-01		×			Matrix:	SOLID
Analyses		Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dich	loroethane-d4	94.0	70-130	)	%REC	20	12/26/2003 3:30:00 PM
Surr: 4-Bromo	fluorobenzene	96.8	70-130	)	%REC	20	12/26/2003 3:30:00 PM
Surr: Dibromo	fluoromethane	94.9	70-130		%REC	20	12/26/2003 3:30:00 PM
Surr: Toluene-	48	• 93.5	70-130		%REC	20	12/26/2003 3:30:00 PM
CYANIDE, REA	CTIVE			SW-84	6		Analyst: MAG
Reactive Cyanide	2	0.0545	0.0300		mg/Kg	1	12/29/2003
SULFIDE, REAC				SW-84	6		Analyst: MAG
Reactive Sulfide		ND	40.0		mg/Kg	1	12/29/2003
	OR SOLIDS			SW84	3, CHPT, 7.	1.2	Analyst: MG
Burns vigorously	and persistently	No				1	12/18/2003
Ignites spontaneo	ously	No				1	12/18/2003
Ignites through fr	iction	No				1	12/18/2003
• •	temp and pressure	No				1	12/18/2003
ignites with moist	lure	No				1	12/18/2003
PH IN SOLID			:	SW804	ISB		Analyst MG
рH		3.60	0.100		pH Units	a 1	12/18/2003

Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantization range
- H Analyzed outside of Hold Time

AR Page 2 of 6

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Date: December 30, 2003

Wark Order:		• •				Alky Act Alumina		
	0312193				C	ollection Date:	12/16/2003 10:30:00 AM	
Project:	TCLP Parameters						CO1 ID	
Lab ID:	0312193-02					Matrix:	20LID	
Analyses		Result	Report Limit	Qual	Units	Dilution Factor		Date Analyzed
TCLP MERCURY				SW747	0	Prep Date:	12/22/2003	Analyst MG
Mercury		ND	0.00200	)	mg/L	1	1	2/23/2003 4:31:10 PM
TCLP METALS, I	СР			SW131	1/6020	Prep Date:	12/19/2003	Analyst: SA
Arsenic		0.308	0.0500		mg/L	10		2/24/2003 12:37:00 P
Barlum		ND	0.0500		mg/L	10	1	2/24/2003 12:37:00 P
Cadmium		ND	0.0500		mg/L	10	1	2/24/2003 12:37:00 P
Chromium		ND	0.0500	i.	mg/L	10	1	2/24/2003 12:37:00 P
Lead		ND	0.0500		mg/L	10	1	2/24/2003 12:37:00 PI
Selenium		0.0510	0.0500		mg/L	10	1	2/24/2003 12:37:00 Pi
Silver		ND	0.0500		mg/L	10		2/24/2003 12:37:00 Pt
				SW131	1/8270	Prep Date:	12/19/2003	Analyst: HV
2,4,5-Trichlorophe	nol	ND	10		µg/L	1	1	2/22/2003 6:28:00 PM
2,4,6-Trichlorophe	nol	ND	10		µg/L	1	1:	2/22/2003 6:28:00 PM
2,4-Dinitrotoluene		ND	10		µg/L	1	1	2/22/2003 6:28:00 PM
•	1.5 mg/L	1,500	300		µg/L	10		2/23/2003 8:20:00 PM
Hexachlorobenzen	•	ND	10		μg/L	1		2/22/2003 8:28.00 PM
Hexachlorobutadle		ND	10		µg/L	1		2/22/2003 6:28:00 PM
Hexachloroethane		ND	10		µg/L	1		2/22/2003 6:28:00 PM
Nitrobenzene		ND	10		µg/L	1		2/22/2003 6:28:00 PM
Pentschloraphenol	[	ND	10		μg/L	1		122/2003 6:28:00 PM
Pyridine ,84		640	100		μg/L	10		2/23/2003 8:20:00 PM
Surr: 2,4,6-Tribr		91.2	45-148		%REC	1		/22/2003 6:28:00 PM
Sur. 2,4,6-Tribr	•	136	45-146		%REC	10		2/23/2003 8:20:00 PM
Surr: 2-Fluorabl	•	83.2	55-120		%REC	1		/22/2003 6:28:00 PM
Surr: 2-Fluorobi	•	108	55-120		%REC	10		2/23/2003 8:20:00 PM
Sur: 2-Fluoroph	•	58.6	21-110		%REC	1		/22/2003 6:28:00 PM
Surr. 2-Fluoroph		70.0	21-110		%REC	10		/23/2003 8:20:00 PM
Surr: 4-Terpheny		95.4	42-153		%REC	10		/23/2003 8:20:00 PM
Surr: 4-Terpheny		112	42-153		%REC	1		/22/2003 6:28:00 PM
Sun: Nitrobenze		97.8	51-117		%REC	1		/22/2003 6:28:00 PM
Sur: Nitrobenze		110	51-117		%REC	10		/23/2003 8:20:00 PM
Surr: Phenol-de		48.2	10-110		%REC	1		/22/2003 6:28:00 PM
Surr: Phenol-d6		43.3	10-110		%REC	10		/23/2003 8:20:00 PM
	1			21414 24 4	/8260B	Prep Date:		
1.1-Dichloroethene		ND	100		1020VD µg/L	20 Fiep Date.		Analyst: HLBW /26/2003 4:27:00 PM
1.2-Dichloroethane		ND	100		µg/∟	20		/26/2003 4:27:00 PM
1.4-Dichlorobenzer		ND	100		µg/∟	20		/26/2003 4:27:00 PM
2-Butanone		5,400	200			20		/26/2003 4:27:00 PM
Benzene		3,400 ND	100		µg/L µg/L	20		/26/2003 4:27:00 PM

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Containinant Level

P - Dual Column results percent difference > 40%

E - Value above quantitation range

11 - Analyzed outside of Hold Time

AR Page 3 of 6

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#### Date: December 30, 2003

CLIENT:	Navajo Refining Company		Client Sample ID: Alky Act Alumina
Work Order:	0312193		Collection Date: 12/16/2003 10:30:00 AM
Project:	TCLP Parameters		
Lab ID:	0312193-02		Matrix: SOLID
	······································	Report	Dilution

Analyses	Result	Limit Qu	ul Units	Factor	Date Analyzed
Carbon Letrachloride	ND	100	µĝ/∟	20	12/26/2003 4:27:00 PM
Chlorobenzene	ND	100	µg/L	20	12/28/2003 4:27:00 PM
Chloroform	ND	100	μ <b>ο</b> /L	20	12/26/2003 4:27:00 PM
Tetrachloroethene	ND	100	µg∕L	20	12/26/2003 4:27:00 PM
Trichloroethene	NĎ	100	µg/L	20	12/26/2003 4:27:00 PM
Vinyl chloride	ND	100	µg/L	20	12/26/2003 4:27:00 PM
Surr: 1,2-Dichloroethane-d4	96.0	70-130	%REC	20	12/26/2003 4:27:00 PM
Surr: 4-Bromofluorobenzene	99.0	70-130	%REC	20	12/26/2003 4:27:00 PM
Surr, Dipromofluoromethane	96.1	70-130	%REC	20	12/26/2003 4:27:00 PM
Sur: Toluene-d8	<b>92</b> .6	70-130	%REC	20	12/26/2003 4:27:00 PM
CYANIDE, REACTIVE	SW-846				Analyst MAG
Reactive Cyanide	ND	0.500	mg/Kg	1	12/29/2003
SULFIDE, REACTIVE	SW-846			Analyst: MAG	
Reactive Sulfide	ND	40.0	mg/Kg	1	12/29/2003
IGNITABILITY FOR SOLIDS		SW8	Analyst: MG		
Burns vigorously and persistently	No			1	12/18/2003
Ignites spontaneously	No			1	12/18/2003
Ignites through friction	No			1	12/18/2003
Ignites under std. temp and pressure	No			1	12/18/2003
Ignites with moisture	No			1	12/18/2003
PH IN SOLID		SWS	045B		Analyst: MG
рH	6.99	0.100	pH Units	1	12/18/2003

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range
- H Analyzed outside of Hold Time

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e-Lab, Inc.

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	Sample Receipt Oneu	~/ioi	
Client Name NAVAJO REFINING		Date/Time Received:	<u>12/17/2003 9:22:00 AM</u>
Work Order Number 0315193		Received by: <u>RSZ</u>	
Checklist completed by Kall	12/17/03	Reviewed by	- 12/18/23
Matrix:	Carrier name: <u>E-Lab</u>		
Shipping container/cooler in good condition?	Yes 🗹	No 🗋 Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗖	No 🗌 Not Present	
Custody seals intact on eample bottles?	Yes 🗋	No 🔲 Not Present	V
Chain of custody present?	Yea 🗹	No 🗆	
Chain of custody signed when relinquished and recei	ved? Yes 🗹		
Chain of custody agrees with sample labels?	Yes 🗹	No 🖵	
Samples in proper container/bottle?	Yes 🗹	No 🗔	
Sample containers Intact?	Yes 🗹	No 🗔	
Sufficient sample volume for indicated test?	Yes 🗹	No 🗔	
All samples received within holding time?	Yes 🗹	No 🗇	
Container/Temp Blank temparature in compliance?	Yes 🗹		
Temperature(s)/Thermometer(s):	3.2c	003	
Water - VOA vials have zero headspace?	Yes 🗋	No 🗌 No VOA viais sub	mitted 🗹
Water - pH acceptable upon receipt?	Yes 🗖	No 🗋 N/A 🗹	
Adjus	stad? Cher	ked by	_
Login Notes:			
Any No and/or NA (not epplicable) response must be	detailed in the comments section t	96 kgw.	
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Client contacted Date	contacted:	Person contacted	
Contacled by: Rega	rding:		
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	·····		
Corrective Action			

Sample Receipt Chacklist

## e-Lab, Inc

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### Date: December 30, 2003

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CLIENT:	e-Lab, Inc			
Project:	0312193			Work Order Sample Summary
Work Order:	0312201			
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Lab Sample ID	<u> lieat Sample ID</u>	Matrix	Tag Number	Collection Date	Date Received	Hold
0312281-01 0	312193-01B	Solid		12/16/2003 10:40		
0312281-02 0	312193-02B	Solid		12/16/2003 10:30		
0312281-03 0	312193-03B	Solid		12/16/2003 10:00	12/19/2003 10:40	

SS Page 1 of 1

e-Lab, Inc

Dato: December 30, 2003

CLIENT: Project:	o-Lab, Inc 0312193					W	ork Order:	0312281
Lab ID: Client Sample ID	0312281-01A : 0312193-01B			<u> </u>	Col	loction Date: Matrix:	12/16/2003 1 SOLID	0:40:00 AM
Analyses		Result	Report Limit	Qual	Units	Dilution Factor	D	te Analyzed
CYANIDE, REACT Cyanide, Reactive	ΠVE	DN	0.5		7.3.3.2 mg/Kg	1	. 1:	Analyst: KAE 2/29/2003
SULFIDE, REACT Sulfide, Reactive	IVE	ND	40		7.3.4.2 mg/Kg	1	12	Analyst: KAE 2/29/2003
Lab ID: Client Sample ID:	0312281-02A 0312193-02B				Cal	lection Date: Matrix:	12/16/2003 1 SOLID	0:30:00 AM
Analyses		Result	Report Limit	Qual	Units	Dilution Factor	Da	te Analyzed
CYANIDE, REACT Cyanide, Reactive	IVE	ND	0.50		7.3.3.2 mg/Kg	1	12	Analyst: KAE //29/2003
SULFIDE, REACT Sulfide, Reactive	VE	ND	40		7.3.4.2 mg/Kg	1	12	Analyst: KAE /29/2003
Lab ID: Client Sample ID:	0312281-03A 0312193-03B				Coll	ection Date: Matrix:	12/16/2003 10 SOLID	MA 00:00:
Analyses		Result	Report Limit	Qaul	Units	Dilution Factor	Da	te Analyzed
CYANIDE, REACT Cyanide, Reactive	IVE	ND	0.50	<b>EPA 7</b> 0	.3.3.2 mg/Kg	1	12	Analyst: KAE /29/2003
SULFIDE, REACTI Suifide, Reactive	VE	ND	40.	ЕРА7 0	<b>.3.4.2</b> mg/Kg	1	12	Analyst: KAE /29/2003

Qualificate:

ND - Not Detected at the Reporting Limit

I - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantization range

H - Analyzed outside of Hold Time

AR Page 1 of 1

e-Lab, I CLIENT: Work Ord		e-Lab, Inc 0312281		•					QC	Dute: CBATC	Dec 30	
Project:		0312193										
Batch ID: R	16310	InstrumentiD:	WETCH	lem			-	<u></u>			·	
MBLK	Samp	He ID: WBLKW1-1216	03		Tee	t Code: EPA	7.3.3.2	Units: n	ng/Kg	Analysis [	)ste 12/1	8/03 0:00
Client ID:			Run ID:	WETC	HEM_03121	BA SeqN	o: <b>26</b> 0	5613	Prep Date:		DF: 1	
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Quai
Cyanide, Re	active		ND	0.50								
MBLK	Samp	He ID: WBLKR1-12290	13		Tes	Code: EPA	7.3.3.2	Units: n	ng/Kg	Analysia (	)ate 12/2	9/03 0:00
Client ID:	•		Run ID:	WETC	HEM_03121	BA SeqNo	o: 267	763	Prep Date:		DF; 1	
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Re	aotive		ND	0.50								
LCS	Samp	le ID: WLCSW1-12180	13		Test	Code: EPA	7.3.3.2	Unite: m	ng/Kg	Analysis D	ate 12/1	V03 0:00
Client ID:			Run ID:	WETC	IEM_031218	BA SogNo	: 265	614	Prep Date:		DF: 1	
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Volue	%RPD	RPD Limit	Qual
Cyanide, Re	active		3.923	0.50	16,95	0	23.1	5-100		0		
LCO	Samp	ie ID: WLC8R1-12290	8		Test	Code: EPA	7.3.3.2	Unite: m	ig/Kg	Analysis D	ate 12/29	/03 0:00
Client ID:			Run ID:	WETCH	IEM_031218	A SeqNa	: 267	764	Prep Dete:		DF: 1	
Analyte			Result	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Rei	active		9.664	0.50	16.95	0	21.6	5-100		0		
The followin	ig sam:	les were analyzed in s	this batch:	03	12281-01A	03122	81-02A	03	12281-03A			

ND - Not Dotected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits J - Analyts detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyze detected in assoc. Mothod Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 1 of 2

CLIENT: Work Order: Project:	e-Lab, Inc 0312281 0312193				QC	BATCH RE	PORT
Batch ID: R18458	instrumentiD: V	WETCHEM					. <u>.</u>
MBLK Sam Client ID:	ple ID: WBLKR1-122603 Ri	un ID: WETCHE	Test Code: EPA7 M_031229H SeqNo		ng/Kg Prep Date:	Analysis Date 12/28 DF: 1	0/03 0:00
Anaiyte	Resu	ut PQL S	SPK Ref SP <u>K Val</u> Value	Control %REC Limit	RPD Ref Value	RPD %RPD Limit	Qual
Sulfide, Reactive	N	D 40					
The following san	nples were analyzed in this b	stch: 0312	2281-01A 03122	61-02A 03	12281-03A		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

6 - Spike Recovery outside accepted recovery limits

R - RPD couside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range QC Page: 2 of 2

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RECEIVED State of New Mexico

**Energy Minerals and Natural Resources** JAN 0 8 2004

Oil Conservation Division 1220 South St. Francis Dr.OIL CONSERVATION DIVISION Santa Fe, NM 87505

Form C-138 Revised June 10, 2003

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Submit Original Plus 1 Copy to Appropriate District Office

## **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt:  Non-Exempt: X	4. Generator BJ Services
□Verbal Approval Received: Yes □ No X	5. Originating Site Hobbs Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2708 W County Rd, Hobbs,NM	
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> <li>All transporters must certify the wastes delivered are only those consigned for transporters</li> </ul>	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be
An transporters must certify the wastes derivered are only mose consigned for transp	
BRIEF DESCRIPTION OF MATERIAL:         RE: 01-05-04 (renewal of 04-24-02)         Sump Sludge generated from the washing of trucks.         This was previous approved 4-30-02, Analytical dated 04-19-02.         Enclosed is non-exempt certificate of waste status and copy of last C-138.         Estimated Volume approx. 250 bbls/monthly thru 11-18-04. Known Volume (to be entered approxed 4-30-04. $pprownl \ \mathcal{Expires} \ 4 - 30 - 04$	S. MR WW
SIGNATURE Waste Management Facility Authorized Agent TITLE: <u>Rep</u> DATE: Waste Management Facility Authorized Agent TYPE OR PRINT NAME: <u>Kim Flowers</u> TELEPHONE NO. (505)393-1079 E-MAIL ADDRESS david@crihobbs.com	<u>01-05-04</u> 
(This space for State Use)	

APPROVED BK The fusion	TITLE: ENVIRO ENER	DATE: 1.06.04
APPROVED BY: Monty Alin -	TITLE: Environmentel Geology	DATE: <u>/~12-04</u>

[2010573] [2011] W. Wand Arrows, Arnoda Millian (11- [2011] W. Wand, Arrow, Mill 27-110 [2011] W. Wand, Arrow, Mill 27-110 [2015] W. Sandarov, Will 57-111 [2015] W. Sandarov, Will 57-111	Energy Miostals and Natural Resource Orl Conservation Devision 1220 South St. Francis Dr. Santa Fe, NM 87505	APR 2 9 2002 Environmental Berrau Of Crosscreture Distance	Form C-13 Kerned Mart 17, 199 Salweit Origent Phys I Cop to Affragens Datus Offy
REQUEST FO	R APPROVAL TO ACCEPT		
<ol> <li>RCRA Exempt D Not-Exempt N Verbal Approval Received Yes</li> </ol>	۲ <u>ــــــــــــــــــــــــــــــــــــ</u>	<ol> <li>Generator HJ Service</li> <li>Gripnoring Sile Hobb</li> </ol>	
2 Management Foculty Destination Corr	colled Recovery Inc	6. Transporter CRI	
1. Address of Feedbity Operator P.O. Ba	on our andars	Sue New Mexico	
7. Location of Meleral (Since Address or U		New Mexico	
material is put-hierardnay and the Gene	THEY'S COMPARENT OF SERVICE NO WARDS CLOSE	attact to consider the factions of	
approvi All transporters must certafy the warker de (RIC# DESCRIPTICAL OF MATERIAL) (4-24-02	diverse are only these scene great for transpor		7779 55 12 17779 55 12 19
approved All transporters must certafy the waves de tRIEP DESCRIPTION OF MATERIAL 44:24:02 Sump Shadge generated from the wash inclosed is certificate of waste status, a has waste stream with April 22, 2003	diversant only these consigned for transport ing of tracks analytical data, and chain of custody 5 This material has been approved in th	n approve	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
apparents	diversitiant only these consegred for transport ingrof tracks analytical data, and chain of custody 5 This material has been approved in th Known Volume (to be entered by the op Volume (to be entered by the op Volume (to be entered by the op	n approve	
All transporters must certafy the watery de tRIE* DESCRIPTION OF MATERIAL 44.24.02 Jump Shadge generated from the wash inclosed is certificate of waste status, a his waste stream orbit April 22, 2003 How waste stream orbit April 22, 2003	diversal are only these consegred for transport ing of tracks arealytical data, and chain of custody of This material has been approved in th Known Volume the televiced by the op This Association of the track of the op The Value of THLE _ <u>Bookkeeper</u>	n approve	277959 277959 1 1 1 2 2 2 4 1 2 2 4 1 2 2 4 1 2 2 4 1 2

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### CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR \_\_\_\_\_BJ\_SERVICES

ADDRESS 2708 WEST COUNTY ROAD, HOBBS, NM 88240

GENERATING SITE HOBBS FACILITY

COUNTY LEA STATE NM

TYPE OF WASTE \_\_\_\_\_\_

ESTIMATED VOLUME APPX, 250 BBLS, MONTHLY

GENERATING PROCESS WASHING TRUCKS

REMARKS

NMUCD FACILITY CONTROLLED RECOVERY, INC.

\_\_\_\_\_

TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provision of 40 CFR, Sections 2613.

AGENT	1. Jode Sm
	SIGNATURE
NAME C	HON RIVAS Toch Soper
	PRINTED
ADDRESS	2708 WEST COUNTY ROAD
	HOBBS, NM 88240
DATE	11-18-03

<u>District I 7</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210	Energy Minerals and Natural Resour		Form C-138 Revised March 17, 1999		
District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	APR 2 9 2002 Environmental Bureau Oil Conservation Division	Submit Original Plus 1 Copy to Appropriate District Office		
REOUEST FC	R APPROVAL TO ACCEPT		·····		
		4. Generator BJ Service	es		
1. RCRA Exempt: ☐ Non-Exempt: ∑ □Verbal Approval Received: Yes		5. Originating Site Hobb	os Facility		
2. Management Facility Destination Cont	rolled Recovery Inc.	6. Transporter CRI			
3. Address of Facility Operator P.O. B	ox 388, Hobbs	8. State New Mexico			
7. Location of Material (Street Address or U	JLSTR) 2708 West Co. Rd., Hobbs	New Mexico			
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>04-24-02</li> <li>Sump Sludge generated from the washing of trucks.</li> </ul>					
Sump Sludge generated from the washing of trucks. Enclosed is certificate of waste status, analytical data, and chain of custody to approve this waste stream until April 22, 2003. This material has been approved in the past. Estimated Volume appx. 250 bbls monthly cy Known Volume (to be entered by the operator at the end of the haul) cy					
SIGNATURE <u>Winnella</u> UM Waste Management Facility Author	<u>Namen</u> TITLE <u>Bookkeeper</u>		1-24-02		
TYPE OR PRINT NAME: Carmella Van	Maanen TELE	phone no: <u>(505) 393-</u>	1079 5 5		
(This space for State Use) APPROVED BY: Use APPROVED BY: Mathematical	E TITLE: Environine TITLE: Environme	ntal Engr DATE	4-26-02		

District I 1625 N. Frence Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazo's Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED State of New Mexico Energy Minerals and Natural Resources JAN 0 5 2004

**Oil Conservation Division** 1220 South St. Francis DHL CONSERVATION Santa Fe, NM 87505 DIVISION

Form C-138 Revised June 10, 2003

Submit Original Plus 1 Copy to Appropriate District Office

### **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt:  Non-Exempt: X	4. Generator Navajo Refining			
□Verbal Approval Received: Yes □ No X	5. Originating Site Artesia & Lovington			
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J			
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico			
7. Location of Material (Street Address or ULSTR) 501 E Main, Artesia & Lovington Hwy, Hobbs, NM				
9. <u>Circle One</u> :	L			
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accompanied by no material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> </ul>	ecessary chemical analysis to PROVE the			
All transporters must certify the wastes delivered are only those consigned for transp	port.			
BRIEF DESCRIPTION OF MATERIAL: RE: 12-23-03A (renewal of previous 06-03-01) Analytical From 11 /00 MJK	bort. 101.60 100.60 101.60			
RE: 12-23-03A (renewal of previous 06-03-01) Away a	A 252627			
Asphalt generated from asphalt collected from clean-up of asphalt spills.				
Enclosed is non-exempt certificate of waste status & letter stating process has not changed. This approval is good thru 12-23-04.	d. 6. 21-150264			
Estimated Volume approx 250yd/annually_Known Volume (to be entered by the operato				
SIGNATURE Waste Management Facility Authorized Agent TITLE: <u>Rep</u> DATE:	12-23-03			
TYPE OR PRINT NAME: <u>Kim Flowers</u> TELEPHONE NO. (505)393-1079				
E-MAIL ADDRESS david@crihobbs.com				
(This space for State Use)				
APPROVED BY: TITLE:	DATE:			
APPROVED BY: Martyn of Hy. TITLE: Environmen				



FAX (505) 746-5283 DIV. ORDERS (505) 746-5481 TRUCKING (505) 746-5458 PERSONNEL

2

501 EAST MAIN STREET • P. O. BOX 159 ARTESIA, NEW MEXICO 88211-0159 TELEPHONE (505) 748-3311 FAX (505) 746-5419 ACCOUNTING (505) 746-5451 EXEC/MKTG (505) 746-5451 ENGINEERING (505) 746-5450 PIPELINE

December 18, 2003

Ken Marsh	Post-It* Fax Note 7671	Date 16/13 pages 6	
ĊRI	To Ken Marsh	From Melie Plymate	
P.O. Box 388	Co./Dept.	Co.	
Hobbs, NM 88214	Phone #	Phone #	
Кеп,	Fax # 505 393 3615	Fax # 505 741 5285	

I would like to have the asphalt C-138 extended for another year. This waste process has not changed.

I have also included analytical for new refractory brick that was generated during our recent turnaround. This consists of pieces and shavings from the installation of the new refractory brick. The refractory would be a one time disposal under this analytical. This material is NON HAZARDOUS and would be transported in 20 yard roll off bins by D & J waste haulers.

Sincer

Charlie Plymale Sr. Environmental Specialist

An Independent Refinery Serving ... NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO

### CERTIFICATE OF WASTE STATUS NON-EXEMPT WASTE MATERIAL "AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: <u>Navajo Refining Company</u>
ADDRESS: 501 East Main
GENERATING SITE: <u>Navajo Refining Company—Lovington Refinery and</u> <u>Artesia Refinery.</u>
COUNTY: Eddy AND Lea
STATE: NM
TYPÉ OF WASTE:Asphalt
ESTIMATED VOLUME: 250 yards
GENERATING PROCESS: <u>Asphalt collected from clean-up of asphalt spills</u>
REMARKS:This waste has been approved in the past .
NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: D and J in a 20 yard roll off bin

DATE:\_

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as pon-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or prixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT:	What -	
	SIGNATURE	
NAME:	Charlie Plymale	
	PRINTED	
ADDRESS: 501 EAST MAIN		
	ARTESIA,NM 88210	

# .hp officejet d135 printer/fax/scanner/copier

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**Fax-History Report** for C R I 5053933615 Dec 18 2003 4:27pm

Last Tr	ansaction					
Date	Time	Type	Identification	<b>Duration</b>	Pages	<u>Result</u>
Dec 18	4:23pm	Received	505 746 5283	1:16	6	ОК

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Ces Form C-138 Revised June 10, 2003 Submit Original Plus 1 Copy to Appropriate District Office				
SOLID WASTE				
4. Generator Quail Tools				
<ol> <li>Originating Site Odessa, TX</li> <li>Transporter Unknown</li> </ol>				
8. State New Mexico				
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>RE: 12-23-03 (renewal of previous 09-27-01)</li> <li>Pipe Scale generated from rattling operations during pipe cleaning.</li> <li>Enclosed is non-exempt certificate of waste status, analytical data and chain of custody. This approval is good thru 12-23-04. MJK Sce wete Below on NoRM</li> <li>Estimated Volume approx 60 yd/annually_Known Volume (to be entered by the operator at the end of the hau)</li> </ul>				
12-23-03				
TYPE OR PRINT NAME: Kim Flowers     TELEPHONE NO. (505)393-1079       E-MAIL ADDRESS     david@crihobbs.com				
6 Engr DATE: 12-24-03 1 Geologist DATE: 1-12-03				

+3373652554

p.2



## Quail Tools, LLP

A Parker Company

Fax

Date:

April 6, 2004

Te: David Parsons

Company: CRI

Fix No.: 505-393-3615

Fiom: George Gisclaire

Texal No. of Pages: 2 (Including cover page)

#### Comments:

Hi Mr. Parsons

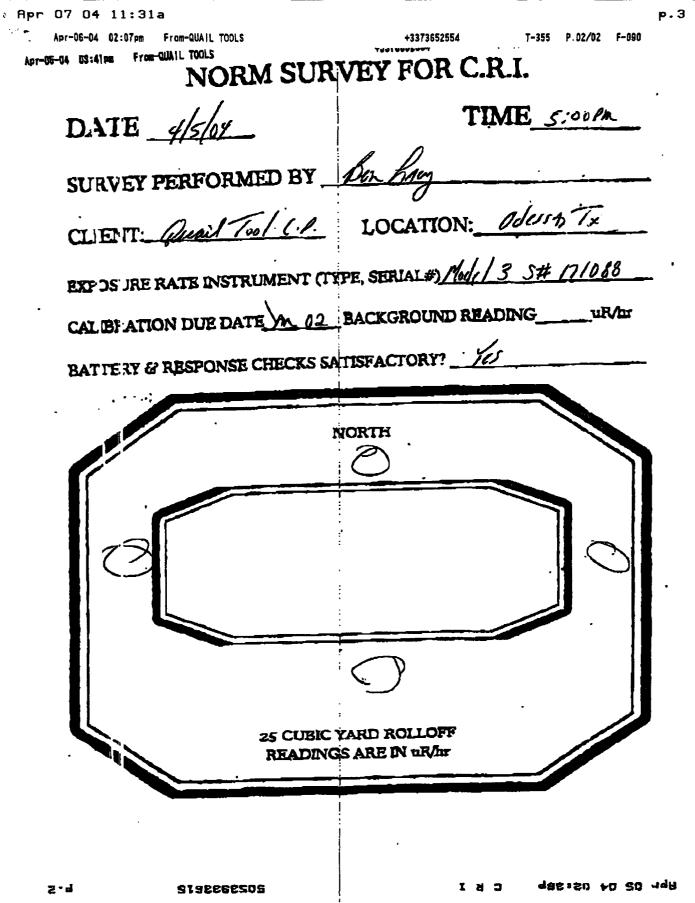
A tached please find a NORM survey that we conducted in our Odessa Facility. Please let  $n \ge know$  if this is acceptable. If it is I would like to schedule a truck to haul our pipe scale it to you facility as soon as we can. T tank You

George Gisclaire

Flease report any transmission problems to: Ceorge Gisclaire (137) 365-8154 or (337) 235-9942 Phone (137) 365-2554 Fax

#### CONFIDENTIALITY NOTICE

This face inite transmission (and/or the documents accompanying it) contains confidential information belonging to the a rader which may also be privileged and which is intended for the use of the individual or entity named above. If you are not the intended recipient, you are hereby notified that any disclosure or use of the contents of this transmission is strictly prohibited. If you have received this transmission in error, please notify the sender to arrange for return of the documents.



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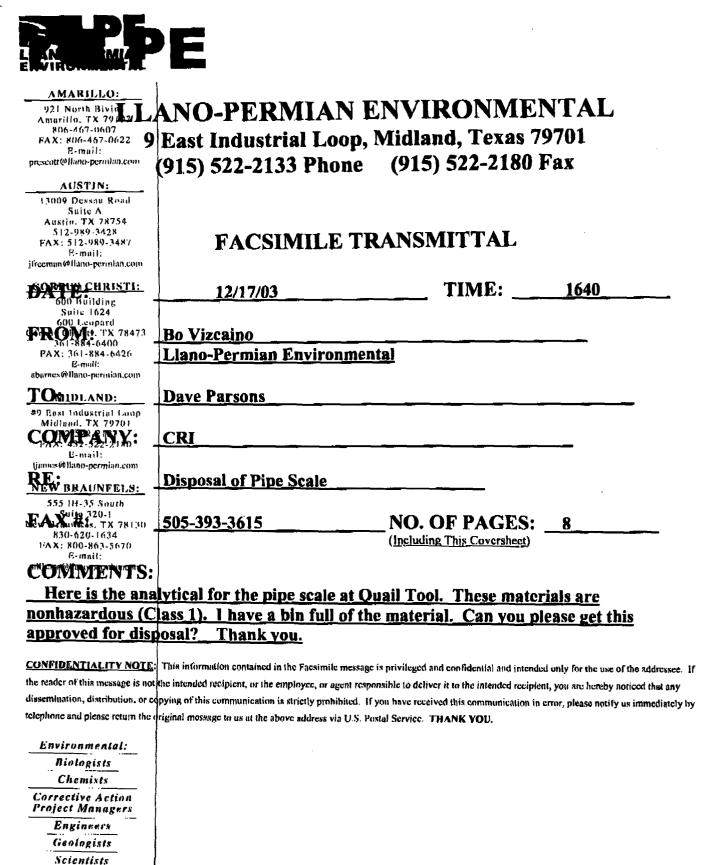
	CERTIFICATE OF WASTE & NON-EXEMPT WASTE MA	TERIAL
"AS REQUIR	ED BY NEW MEXICO OIL CONS	ERVATION DIVISION"
COMPANY/GENERATOR_	QUAIL TO	OLS
ADDRESS 400	W: ALABAMA	
	dersa, Do fa	cility.
· _	COUNTY ECTOR	STATE TEXAS
TYPE OF WASTE	PE SCALE	•
	= 15 YD3	
GENERATING PROCESS_	Rattling open	storing during
_pipe cleaning		
REMARKS ALISH	HAZARDOUS	
NMOCD FACILITY		RY INC.
	TOTAL JET	TING

As a condition of acceptance for disposal, I hearby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge 'hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous weste" pursuant to the provisions of 40 CFR, Section 2613.

	30 Vicano
	BIONATURE
NAME	So V 2 Como
	PRINTED
ADDRESS_	9 E. Dudustral Lovy
	Modland TX 79701
DATE	17 Dec/ 2003

TOTAL P.02

Dec. 17 2003 05:43PM P1



Toll Pres: 866-742-0742 www.lluno-permisn.com

## **ANALYTICAL REPORT**

## Prepared for:

BO VIZCAINO LLANO-PERMIAN ENVIRONMENTAL #9 EAST INDUSTRIAL LOOP MIDLAND, TX 79701

Project:	Quail Tool
PO#:	
Order#:	G0307962
<b>Report Date:</b>	11/26/2003



<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, I.T.D. 12600 West 1-20 East, Odessa, TX 79765 Ph: 915-563-1800

• ;

## ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LLANO-PERMIAN ENVIRONMENTAL #9 EAST INDUSTRIAL LOOP MIDLAND, TX 79701 522-2180 Order#:G0307962Project:QUT.001.WDProject Name:Quail ToolLocation:Odessa, Tx

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	<u>Sample :</u>	Matrix:	Date / Timc Collected	Date / Time <u>Received</u>	Container	Proservative
0307962-01	Pipe Scale	SOLID	11/17/03 17:00	11/17/03 17:23	4 oz glass	lce
La	<u>b Testing:</u>	Rejected: No	Tem	p: 22.0C	·	
	8260B TCLP					
	8270C Semivolatile C	Organics - TCLP				
	METALS RCRA 7 T	CLP				
	RCI					
	Mercury, TCLP					
	<b>TPH 418.1 FTIR</b>					

ENVIRONMENTAL I.AB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

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## ENVIRONMENTAL LAB OF TEXAS

### ANALYTICAL REPORT

BOVIZCAINO	Order#:	G0307962
LLANO-PERMIAN ENVIRONMENTAL	Project:	QUT.001.WD
#9 EAST INDUSTRIAL LOOP	Project Name:	Quail Tool
MIDLAND, TX 79701	Location:	Odessa, Tx

Lab ID:	0307962-01
Sample ID:	Pipe Scale

		826	OB TCLP			
Method <u>Binnk</u> 0007563-02	Date <u>Prepared</u> 11/18/03	Date <u>Analyzed</u> 1 1/25/03 20:53	Sample <u>Amount</u> 5	Dilution <u>Factor</u> 1	<u>Analyat</u> CK	<u>Method</u> 1311/8260.B
	Parameter		Resul µg/L		RL	
	Carbon tetrachlor	ide	<1		1.00	
	Benzenc		<1	-	1.00	
	1,2-Dichlorocthar	10	<1		1.00	
	Chlorobenzenc		<1		1.00	
	J.1-Dichloroether	IC	<1		1.00	
	1,4-Dichlorobenz	ene	<1		1.00	
	2-Butanone (ME)	() ()	<1	1	1.00	
	Chloroform	····	<1	·	1.00	•
	Tetrachloroethene	;	<1		1.00	
	Trichloroethene		<1		1.00	
	Vinyl chloride		<1		1.00	

Surrogates	% Recovered	QC Limits (%)		
Dibromofluoromethane	129%	63	144 147	
1,2-dichloroethane-d4	123%	57		
Toluene-d8	110%	64	128	
4-Bromailuarobenzene	109%	47	158	

DL = Diluted out N/A - Not Applicable RL - Reporting Limit

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## **ENVIRONMENTAL LAB OF TEXAS**

### ANALYTICAL REPORT

BO VIZCAINO	Order#:	G0307962	
LLANO-PERMIAN ENVIRONMENTAL	Project:	QUT,N01,WD	
#9 FAST INDUSTRIAL LOOP	<b>Project Name:</b>	Quail Tool	
MIDLAND, TX 79701	Location:	Odessa, Tx	

Lab JD:	0307962-01
Sample ID:	Pipe Scale

	82	70C Semivol	atile Organics	- TCL	P	
Method <u>Blank</u> 0007544-02	Date <u>Prepared</u> 11/21/03	Date <u>Analyzed</u> 11/21/03 21:41	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 1311/8270C
ſ	Parameter		Result µg/1.		RL.	
I	yridine		<5.00		5.00	
li	.4-Dichloroben	zene	<5.00		5.00	
2	2-Methylphenol		<5,00		5.00	
ł	-icxachloroethan	e	<5.00		5.00	
3	Nitrobenzene		<5.00	···{·-··	5.00	
ī	lexachlorobutad	iene	<5.00		5.00	
2	2,4,6-Trichlorop	icnol	<5.00		5.00	
2	2,4,5-Trichlorupl	nenol	<5.00		5.00	
1	4-Dinitrotoluer		<5.00		5.00	
F	Icxachlorobenzo	nc	<5.00		5.00	
म	entachlorophen	ol	<5.00		5.00	
4	Methylphenol		<5.00		5.00	

Surrogates	% Recovered	OC Limits (%)		
2-Fluorophenol	37%	21	110	
Phenol-d5	25%	10	110	
Nitrobenzene-d5	73%	23	120	
2-Fluorobiphenyl	70%	30	116	
2,4,6-Tribromophenol	80%	10	123	
p-Terphenyl-d14	53%	18	137	

Approval:

Rnland K. Tuttle, Lab Director, QA Officor Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biczugbe, Lab Tech. Sara Molina, Lab Tech.

11-26-03

Date

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# **ENVIRONMENTAL LAB OF TEXAS**

## ANALYTICAL REPORT

BO VIZCAINO LLANO-PERMIAN ENVIRONMENTAL #9 EAST INDUSTRIAL LOOP MIDLAND, TX 79701			Order#: Project: Project Na Location:	me: (	G0307962 QUT.001.WD Quail Tool Udessa, Tx			
Lab ID: 0307962-01 Sample ID: Pipe Scale								
METALS RCRA 7 TCLP Parameter	Result	Units	Dilution <u>Factor</u>	RL	Method	Date Prepared	Date Analyzed	<u>Analyst</u>
Arsenic	<0.008	mg/f.	1	0.008	1311/60108	11/18/2003	11/20/03	SM
Barium	0.253	mg/I	I	0.001	1311/6010 <b>B</b>	11/18/2003	11/20/03	SM
Cadmium	<0.001	mg/1.	1	0.001	1311/6010B	11/18/2003	11/20/03	SM
Chromium	0.009	mg/L	1	0.002	1311/6010B	11/18/2003	11/20/03	SM
Lead	0.025	mg/L	1	0.011	1311/6010B	11/18/2003	11/20/03	SM
Selenium	<0.004	mg/L	1	0.004	1311/6010B	11/18/2003	11/20/03	SM
Silver	0.065	mg/L	1	0.002	1311/6010B	11/18/2003	11/20/03	SM
Test Parameters			Dilution			Date	Date	
Parameter	<u>Result</u>	Units	<b>Factor</b>	<u>RL</u>	Method	Prepared	Analyzed	Analyst
Mercury, TCLP	<0.0005	mg/1.	1	0.0005	1311/7470	11/18/2003	11/20/03	SM

11-26-03

Approval: Raland K. Juttb Raland K. Tuttle, Lub Directur, QA Officer Celey D. Keene, Org. Tech. Directur Jeanne McMurrey, Inorg. Tech. Director Sandra Biozugbe, Lab Tech. Sara Molina, Lab Tech.

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## ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

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BO VÍZCAINO LLANO-PERMIAN ENVIRONMENTAL #9 EAST INDUSTRIAL LOOP MIDLAND, 1X 79701			Order# Project Project Locatio	: Name:	G0307962 QUT.001.W Quail Tool Odessa, Tx	/D		
	7962-01 s Scale						_	
RCI				Dilutio			Date	
_Parameter		Result	Units	Factor		Method	Analyzed	Analyst
Ignitability		>100	C	1	NA	1010	11/18/03	Л.H
рН		7.12	pH units	1	N/A	9045C	11/18/03	SB
Reactive Cyanide		<0.09	mg/kg	1	0.09	SW846 CH.7	11/18/03	<b>SB</b>
Reactive Sulfide		<5.00	mg/kg	1	5.00	SW846 CH.7	11/18/03	SB
Test Parameters	,			Dilutio	4	•	Date	
Parameter		Result	Units	Factor		Method	Analyzed	Analyst
TPH 418.1 FTTR		4970	mg/kg	1	10.0	418.1	11/20/03	SD

Approval: Kollow d.K. Just Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Simdra Blezughe, Lab Tech. Sara Mollina, Lab Tech.

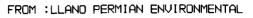
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