NM1-10-B

C-138

Date: 2006

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 Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: Non-Exempt: ⊠	4. Generator: Red Willow Production Company
Verbal Approval Received: Yes No:	5. Originating Site: McElvain Compressor
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:
3. Address of Facility Operator:	GIL CONS. I
JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o Box 2043	8. State: DIST. 3
Farmington, NM 87499 7. Location of Material (Street Address or ULSTR) S- 25, T- 33N, R- 08W	
9. Circle One:	
	classified hazardous by listing or testing will be
Known Volume (to be entered by the operator at the end of the	haul)
SIGNATURE James Active TITLE: Senior Vice Waste Management Facility Authorized Agent	President DATE: <u>1/29/2007</u>
TYPE OR PRINT NAME: <u>James Hatcher</u> TI	ELEPHONE NO. <u>(505) 632-1782</u>
E-MAIL ADDRESS: jake43@qwest.net	
(This space for State Use)	
APPROVED BY: Control of the second se	DATE: <u>1-30-06</u>
APPROVED BY:	DATE:

Industrial EcoSystems

5056321876



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor Joanna Prukop Cabinet Secretary

Mark Fesmire Director Oil Conservation Division

p.2

CERTIFICATE OF WASTE STATUS

	2. Destination Name:
Red Willow Production Company	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
14933 Hwy 172 Ignacio, CO 81137	#81 CR 3150 Aztec, NM 87410
Ignatio, Co oxio	Phone # 505-632-1782 Fax No# 505-334-1003
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
McElvain Compressor Station	S- 25 T- 33 R- 08W or attach list Street Address:
Attach list of originating sites as appropriate	
4. Source and Description of Waste	·
Mixture of sand/gravel/engine oil (15W30) from cl	lean up around engine and location.
(Check appropriate classification)	
	NON-EXEMPT oilfield waste which is non-hazardous by
EXEMPT oilfield wasteX aracteristic	NON-EXEMPT oilfield waste which is non-hazardous by Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.
	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.
or NON-EXEMPT waste the following documentation is X MSDS Information XRCRA Hazardous Waste Analysis X Chain of Custody	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above. attached (check appropriate items):
or NON-EXEMPT waste the following documentation is X MSDS Information X RCRA Hazardous Waste Analysis X Chain of Custody This waste is in compliance with Regulated Levels of National State Compliance with Regulated Regulat	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above. attached (check appropriate items): X Other (description) TCLP
or NON-EXEMPT waste the following documentation is X MSDS Information X RCRA Hazardous Waste Analysis X Chain of Custody nis waste is in compliance with Regulated Levels of Nat MAC 3.1 subpart 1403.C and D.	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above. attached (check appropriate items): X Other (description) TCLP turally Occurring Radioactive Material (NORM) pursuant to 20
or NON-EXEMPT waste the following documentation is X MSDS Information XRCRA Hazardous Waste Analysis X Chain of Custody This waste is in compliance with Regulated Levels of National Support 1403.C and D. The compliance of the	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above. attached (check appropriate items): X Other (description) TCLP turally Occurring Radioactive Material (NORM) pursuant to 20 Phone Contact: 970-563-5193
or NON-EXEMPT waste the following documentation is X MSDS Information XRCRA Hazardous Waste Analysis X Chain of Custody his waste is in compliance with Regulated Levels of Nat MAC 3.1 subpart 1403.C and D. ame (Original Signature):	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above. attached (check appropriate items): X Other (description) TCLP turally Occurring Radioactive Material (NORM) pursuant to 20 Phone Contact: 970-563-5193
or NON-EXEMPT waste the following documentation is X MSDS Information XRCRA Hazardous Waste Analysis X Chain of Custody his waste is in compliance with Regulated Levels of Nat MAC 3.1 subpart 1403.C and D. ame (Original Signature):	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above. attached (check appropriate items): X Other (description) TCLP turally Occurring Radioactive Material (NORM) pursuant to 20 Phone Contact: 970-563-5193

Status: Final

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Date of Issue: 06-May-2004



MATERIAL SAFETY DATA SHEET Conoco HD Fleet Supreme Engine Oil

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Conoco HD Fleet Supreme Engine Oil

Product Code:

46261

Intended Use: Synonyms:

Heavy Duty Diesel Engine Oil

Conoco MSDS #MOTC0090 Conoco HD Fleet Supreme Engine Oil (AP Region)

Conoco HD Fleet Supreme Engine Oil 10W-30
Conoco HD Fleet Supreme Engine Oil 15W-40
Conoco HD Fleet Supreme Engine Oil 20W-50

Chemical Family:

Not Given

Responsible Party:

Conoco Lubricants

A Division of ConocoPhillips 600 N. Dairy Ashford

Houston, Texas 77079-1175

Customer Service:

800-255-9556

Technical Information:

800-255-9556

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical Information number listed."

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident Call CHEMTREC:

North America: (800) 424-9300 Others: (703) 527-3887 (collect)

California Poison Control System: (800) 356-3219

Health Hazards/Precautionary Measures: Causes eye and skin irritation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Keep away from all sources of ignition.

Appearance: Physical Form: Light brown Liquid

Odor:

Light petroleum

NFPA 704 Hazard Class:

HMIS Hazard Class:

Health: Flammability:

1 (Slight) 1 (Slight) Health: Flammability: 1 (Slight) 1 (Slight)

instability:

0 (Least)

Physical Hazards:

0 (Least)

Status: Final

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Date of Issue: 06-May-2004

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONEN	15				
Component / CAS No:	Percent (%)	ACGIH:	OSHA:	NIOSH:	Other:
Zinc Compound	1-2	NE	NE	NE	
PROPRIÉTARY					

NON-HAZARDOUS COMP	DNENTS			, , , , , , , , , , , , , , , , , , , ,	
Component / CAS No:	Percent (%)	ACGIH:	OSHA:	NIOSH:	Other:
Lubricant Base Oil (Petroleum) VARIOUS	70 - 80	5mg/m ² TWA 10 mg/m ² STEL	5 mg/m ⁵ TWA	(2500 mg/m³ IDLH	as Oil Mist, if Generated 5 mg/m³ NOHSC TWA
Additives PROPRIETARY	20 - 30	NE	NE	NE	·

All components are listed on the TSCA inventory.

The base oil for this product can be a mixture of any of the following highly refined petroleum streams: CAS 64741-88-4; CAS 64741-97-5; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-54-7; CAS 64742-55-8; CAS 64742-56-9; CAS 64742-57-0; CAS 64742-62-7; CAS 64742-63-8; CAS 64742-65-0; CAS 72623-85-9; CAS 72623-86-0; CAS 72623-87-1

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM. NE=Not Established

3. HAZARDS IDENTIFICATION

Potential Health Effects:

Eye: Eye Irritant. Contact may cause stinging, watering, redness, and swelling.

Skin: Skin irritant. Contact may cause redness, itching, burning, and skin damage. No harmful effects from skin absorption are expected.

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): No harmful effects expected from ingestion,

Signs and Symptoms: Effects of overexposure may include imitation of the nose and throat, imitation of the digestive tract, nausea, and, diarrhea.

Cancer: Inadequate evidence available to evaluate the cancer hazard of this material. See Section 11 for carcinogenicity information of individual components, if any.

Target Organs: No data available for this material.

Developmental: No data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders.

Status: Final

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Date of issue: 06-May-2004

4. FIRST AID MEASURES

Eye: Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek medical attention. For direct contact, hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.

Skin: Wipe material from skin, remove contaminated shoes and clothing and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild scap and water and, if necessary, a waterless skin cleanser. If imitation or redness develops, seek medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

Notes to Physician: High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. Often these injuries require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury.

Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

5. FIRE-FIGHTING MEASURES

Flammable Properties:

Flash Point:

380°F / 193°C

Test Method:

PM

OSHA Flammability Class: Not applicable

LEL%:

No data

UEL%:

Autoignition Temperature: No data

No data

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily, if water is applied to heated material, it can cause violent foaming and boilover. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

Status: Final

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Date of Issue: 06-May-2004

6. ACCIDENTAL RELEASE MEASURES

This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. Notify appropriate federal, state, and local agencies.

7. HANDLING AND STORAGE

Handling: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.148. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparetus or from pinhole leaks in tubing of high pressure hydraulic oil equipment.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Storage temperatures: above 113°F may lead to thermal decomposition, resulting in the generation of hydrogen sulfide and other sulfur containing gases. Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Use and store this material in cool, dry, well-ventilated areas. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required.

Personal Protective Equipment (PPE):

Status: Final

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Date of issue: 06-May-2004

Respiratory: Inhalation is not an expected route of exposure. However, a NIOSH certified air purifying respirator with a Type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible imitation, and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Appearance: Light brown Liquid

Odor: Light petroleum

Odor Threshold:

pH:

No data

Not applicable

Vapor Pressure (mm Hg):

Vapor Density (air=1):

Bolling Point:

No data

Melting/Freezing Point:

No data

No data

Partition Coefficient (n-octanol/water):

Specific Gravity:

Bulk Density:

Bulk Density Units

Viscosity cSt @ 100°C:

Viscosity cSt @ 40°C:

Evaporation Rate (nBuAc=1):

No data

No data

No data

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Flash Point: 380°F / 193°C

Test Method: PM
Flammable/Explosive Limits: No data
Decomposition Temperature: No data

Status: Final

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Date of Issue: 06-May-2004

10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to avoid: Can become unstable at elevated temperatures and pressures.

Materials to Avoid (Incompatible Materials): Avoid contact with acids and strong exidizing agents.

Hazardous Decomposition Products: Combustion can yield carbon, nitrogen, sulfur, phosphorus, and zinc oxides. Hydrogen sulfide and alkyl mercaptans may also be released. Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 113°F.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Lubricant Base Oil (Petroleum) - VARIOUS

Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, hydrotreating, and dewaxing to remove aromatics and improve performance characteristics. None of the oils used are listed as a carcinogen by NTP, IARC, or OSHA.

Acute Data:

Lubricant Base Oil (Petroleum) - VARIOUS

The second of the second property of the second

Dermal LD50 = >2 g/kg LC50 = No information evailable Oral LD50 = >5 g/kg

Additives - PROPRIETARY

Dermal LD50 = No information available LC50 = No information available Oral LD50 = No information available

Zinc Compound - PROPRIETARY

Dermal LD50 = No information available LC50 = No information available Oral LD50 = No information available

12. ECOLOGICAL INFORMATION

Not evaluated at this time.

Status: Final

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Date of Issue: 06-May-2004

13. DISPOSAL CONSIDERATIONS

This material under most intended uses would become used oil due to contamination by physical or chemical impurities. RECYCLE ALL USED OIL. While being recycled, used oil is regulated by 40 CFR 279. Use resulting in chemical or physical change or contamination may also subject it to regulation as hazardous waste. Under federal regulations, used oil is a solid waste managed under 40 CFR 279. However, in California, used oil is managed as hazardous waste until tested to show it is not hazardous. Consult state and local regulations regarding the proper handling of used oil. In the case of used oil, the intent to discard it may cause the used oil to be regulated as hazardous waste.

Contents should be completely used and containers emptied prior to discard. Rinsate may be considered a RCRA hazardous waste and must be disposed of with care and in compliance with federal, state and local regulations. Large empty containers, such as drums, should be returned to the distributor or a drum reconditioner. To assure proper disposal of small empty containers, consult with state and local regulations and disposal authorities.

14. TRANSPORTATION INFORMATION

DOT Shipping Description: Not classified as hazardous

Note: Material is unregulated unless in container of 3500 gallons or more, then provisions of 49 CFR Part 130 apply for land shipment.

IMDG Shipping Description: Not regulated

ICAO/IATA Shipping Description: Not regulated

15. REGULATORY INFORMATION

U.S. Regulations:

EPA SARA 311/312 (Title III Hazard Categories)

Acute Health:

Yes

Chronic Health:

No

Fire Hazard:

No

Pressure Hazard:

No

Reactive Hazard:

No

SARA - Section 313 and 49 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372: Zinc Compound 1-2%

EPA (CERCLA) Reportable Quantity:

-None Known-

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs

This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372: - None Known -

California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of Calfornia to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

- None Known -

Carcinogen Identification:

Status: Final

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Date of Issue: 06-May-2004

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

TSCA:

All components are listed on the TSCA inventory.

16. OTHER INFORMATION

Issue/Revision Date:

06-May-2004

Previous Issue Date:

5/13/2003

Product Code:

46261

Reason for revision:

Formulation Change. SEE SECTION 2.

Previous Product Code:

46261, 46260, 46272

MSDS Code:

776084

Disclaimer of Expressed and Implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

612 E. Murray Drive Farmington, NM 87401

> Off: (505) 327-1072 Fax: (505) 327-1496



P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

January 24, 2007

Joel Owens
Industrial Ecosystems, Inc.
#81 County Road 3150
Aztec, NM 87410

TEL: (505) 632-1782 FAX: (505) 632-1876

RE: Red Willow / McElvain Compressor

Dear Joel Owens:

iiná bá received 1 sample on 1/12/2007 1:10:00 PM for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By:

Jeffrey L. Engels, Laboratory Manager

Edwina F. Aspaas, Quality Assurance Officer

ORELAP Laboratory No. 100002 Arizona License No. AZ0691



Order No.: 0701018

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at (505) 327-1072.



612 E. Murray Drive Farmington, NM 87499

Off: (505) 327-1072 FAX: (505) 327-1496

iiná bá

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

iiná bá

Date: 24-Jan-07

CLIENT:

Industrial Ecosystems, Inc.

Project:

Red Willow / McElvain Compressor

Lab Order:

0701018

CASE NARRATIVE

Samples were analyzed using the methods outlined in one or more of the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

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

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94/111,

May 1994.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

Barium and chromium were detected in the associated method blank. The analytes of interest in the sample are below the regulatory limits.

Off: (505) 327-1072 FAX: (505) 327-1496

iiná bá

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

CLIENT:

Industrial Ecosystems, Inc.

Work Order:

0701018

Project:

Red Willow / McElvain Compressor

Lab ID:

0701018-001A

Date: 24-Jan-07

Client Sample Info: Red Willow / McElvain Compres

Client Sample ID: 001MCEL

Collection Date: 1/11/2007 1:00:00 PM

Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP LEACHED		SW7	470	(SW7	470)	Analyst: jem
Mercury	< 0.0020	0.0020		mg/L	1	1/23/2007
ICP METALS, TCLP LEACHED		SW1311	/6010	B (SW3	010A)	Analyst: jle
Arsenic	< 0.0180	0.0180		mg/L	1	1/23/2007 10:29:22 AM
Barium	1.90	0.0030	В	mg/L	1	1/23/2007 10:29:22 AM
Cadmium	0.0032	0.0030		mg/L	1	1/23/2007 10:29:22 AM
Chromium	0.0030	0.0030	В	mg/L	1	1/23/2007 10:29:22 AM
Lead	< 0.0050	0.0050		mg/L	1	1/23/2007 10:29:22 AM
Selenium	< 0.0110	0.0110		mg/L	1	1/23/2007 10:29:22 AM
Silver	< 0.0200	0.0200		mg/L	1	1/23/2007 10:29:22 AM

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 1 of 1

Date: 24-Jan-07

CLIENT:

Industrial Ecosystems, Inc.

Work Order:

0701018

Project:

Red Willow / McElvain Compressor

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_HG

Sample ID:	MB_1556	SampType: MBLK	TestCode: 1311_HG	Units: mg/L	Prep Date: 1/23/2007	Run ID: AA_070123A
Client ID:	ZZZZZ	Batch ID: 1556	TestNo: SW7470	(SW7470)	Analysis Date: 1/23/2007	SeqNo: 124366
Analyte		Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury		< 0.00200	0.00200			
Sample ID:	LCS_1556	SampType: LCS	TestCode: 1311_HG	Units: mg/L	Prep Date: 1/23/2007	Run ID: AA_070123A
Client ID:	Z Z ZZZ	Batch ID: 1556	TestNo: SW7470	(SW7470)	Analysis Date: 1/23/2007	SeqNo: 124367
Analyte		Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury		0.01355	0.00200 0.0125	0	108 70 130 0	0
Sample ID: Client ID:	LCSD_1556 ZZZZZ	SampType: LCSD Batch ID: 1556	TestCode: 1311_HG TestNo: SW7470	Units: mg/L (SW7470)	Prep Date: 1/23/2007 Analysis Date: 1/23/2007	Run ID: AA_070123A SeqNo: 124368
Analyte		Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury		0.01392	0.00200 0.0125	0	111 70 130 0.01355	2.73 20
i '	0701018-001AMS 001MCEL	SampType: MS Batch ID: 1556	TestCode: 1311_HG TestNo: SW7470	Units: mg/L (SW7470)	Prep Date: 1/23/2007 Analysis Date: 1/23/2007	Run ID: AA_070123A SeqNo: 124371
Analyte		Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury		0.01279	0.00200 0.0125	0	102 70 130 0	0
· ·	0701018-001AMSD 001MCEL	SampType: MSD Batch ID: 1556	TestCode: 1311_HG TestNo: SW7470	Units: mg/L (SW7470)	Prep Date: 1/23/2007 Analysis Date: 1/23/2007	Run ID: AA_070123A SeqNo: 124372
Analyte		Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury		0.01305	0.00200 0.0125	0	104 70 130 0.01279	2.03 20

CLIENT:

Industrial Ecosystems, Inc.

Work Order:

0701018

Project:

Red Willow / McElvain Compressor

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_M

Sample ID:	MB_1551	SampType: MBLK	TestCod	de: 1311_M	Units: mg/L		Prep Da	te: 1/19/20	07	Run ID: ICF	P_1_070123A	A
Client ID:	ZZZZZ	Batch ID: 1551	TestN	lo: SW1311/6	010 (SW3010A)		Analysis Da	te: 1/23/20	07	SeqNo: 124	1353	
Analyte	_	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		0.01098	0.0180									J
Barium		0.03468	0.00300									
Cadmium		< 0.00300	0.00300					•		-		
Chromium		0.00398	0.00300									
Lead		0.003416	0.00500									J
Selenium		0.002394	0.0110									J
Silver		< 0.0200	0.0200		<u> </u>							
Sample ID:	LCS_1551	SampType: LCS	TestCod	de: 1311_M	Units: mg/L		Prep Da	te: 1/19/20	007	Run ID: ICE	P_1_070123 <i>A</i>	Α
Client ID:	ZZZZZ	Batch ID: 1551	Test!	lo: SW1311 /6	010 (SW3010A)		Analysis Da	ite: 1/23/20	007	SeqNo: 124	1 354	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		1.076	0.0180	1	0.01098	107	75	125	0	0		
Barium		1.004	0.00300	1	0.03468	96.9	75	125	0	0		В
Cadmium		1.156	0.00300	1	0	116	75	125	0	0		
Chromium		0.9768	0.00300	1	0.00398	97.3	75	125	0	0		В
Lead		1.011	0.00500	1	0.003416	101	75	125	0	0		
Selenium		1.109	0.0110	1	0.002394	111	75	125	0	0		
Silver		1.171	0.0200	1	0	117	75	125	0	0		
Sample ID:	LCSD_1551	SampType: LCSD	TestCod	de: 1311_M	Units: mg/L		Prep Da	te: 1/19/20	007	Run ID: ICI	P_1_070123A	Δ
Client ID:	ZZZZZ	Batch ID: 1551	TestN	lo: SW1311/6	010 (SW3010A)		Analysis Da	te: 1/23/20	007	SeqNo: 124	4355	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		1.09	0.0180	1	0.01098	108	75	125	1.076	1.26	20	
Barium		1.011	0.00300	1	0.03468	97.6	.75	125	1.004	0.643	20	В
Cadmium		1.19	0.00300	1	0	119	75	125	1.156	2.92	20	
Chromium		1.001	0.00300	1	0.00398	99.7	75	125	0.9768	2.48	20	В
Lead		1.033	0.00500	1	0.003416	103	75	125	1.011	2.22	20	
Selenium		1.149	0.0110	1	0.002394	115	75	125	1.109	3.58	20	
Silver		1.189	0.0200	1	0	119	75	125	1.171	1.53	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

CLIENT:

Industrial Ecosystems, Inc.

Work Order:

0701018

Project:

Red Willow / McElvain Compressor

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_M

Sample ID: (0701018-001ADMS	SampType: MS	TestCod	de: 1311_M	Units: mg/L		Prep Da	te: 1/19/20	007	Run ID: ICF		<u> </u>
Client ID: (001MCEL	Batch ID: 1551	Test	lo: SW1311 /6	010 (SW3010A)		Analysis Da	te: 1/23/20	007	SeqNo: 12 4	1358	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		1.091	0.0180	1	0	109	75	125	0	0		
Barium		2.963	0.00300	1	1.895	107	75	125	0	0		В
Cadmium		1.19	0.00300	1	0.003204	119	75	125	0	0		
Chromium		0.932	0.00300	1	0.003035	92.9	75	125	0	0		В
Lead		1.033	0.00500	1	0.00437	103	75	125	0	0		
Selenium		1.134	0.0110	1	0	113	75	125	0	0		
Silver		1.211	0.0200	1	0	121	75	125	0	0		
Sample ID:	0701018-001ADMSD	SampType: MSD	TestCod	de: 1311_M	Units: mg/L		Prep Da	te: 1/19/20	007	Run ID: ICF	2_1_070123 <i>A</i>	4
Client ID:	001MCEL	Batch ID: 1551	Test	lo: SW1311/6	010 (SW3010A)		Analysis Da	te: 1/23/20	007	SeqNo: 124	1359	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	,%RPD	RPDLimit	Qual
Arsenic	<u></u>	1.094	0.0180	1	0	109	75	125	1.091	0.303	20	
Barium		2.855	0.00300	1	1.895	96	75	125	2.963	3.72	20	В
Cadmium		1.187	0.00300	1	0.003204	118	75	125	1.19	0.245	20	
Chromium		0.9346	0.00300	1	0.003035	93.2	75	125	0.932	0.275	20	В
Lead		1.023	0.00500	1	0.00437	102	75	125	1.033	0.951	20	
Selenium		1.12	0.0110	1	0	112	75	125	1.134	1.23	20	
Silver		1.208	0.0200	1	0	121	75	125	1.211	0.230	20	
Sample ID:	0701018-001AD	SampType: DUP	TestCod	de: 1311_M	Units: mg/L		Prep Da	te: 1/19/20	007	Run ID: ICF	2_1_070123	Α
Client ID:	001MCEL	Batch ID: 1551	TestN	lo: SW1311 /6	010 (SW3010A)		Analysis Da	te: 1/23/20	007	SeqNo: 124	1357	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		< 0.0180	0.0180	0	0	0	0	0	0	0	. 20	
Barium		2.062	0.00300	0	0	0	0	0	1.895	8.44	20	В
Cadmium		0.003483	0.00300	0	0	0	0	0	0.003204	8.35	20	
Chromium		0.003705	0.00300	0	0	0	0	0	0.003035	19.9	20	В
Lead		0.004616	0.00500	0	0	. 0	0	0	0.00437	0	20	J
		< 0.0110	0.0110	0	0	0	0	0	0	0	20	
Selenium		- 0.0110	0.01.0			U						

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

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Sample Receipt Checklist

Client Name: IND1003			Da	ate and	Time R	teceived:		1/12/2007	1:10:00 PM
Work Order Number: 0701018			R	eceived	by:	jle			
Checklist completed by:	1/12/07 Date	7	R	eviewe	d by:	nitials from	<u>s</u>	1//5	/07
Matrix:	Carrier name:	Industria	l Ecosystem	<u>18</u>					
Shipping container/cooler in good condition?		Yes 🗌	N	o 🗀	No	ot Present	V		
Custody seals intact on shippping container/coo	ler?	Yes 🗌	N	o 🗌	No	t Present	V		
Custody seals intact on sample bottles?		Yes 🗹	N	o 🗌	No	t Present			
Chain of custody present?		Yes 🗹	N	o 🗆					
Chain of custody signed when relinquished and	received?	Yes 🗹	N	o 🗆					
Chain of custody agrees with sample labels?		Yes 🗹	N	o 🗌					
Samples in proper container/bottle?		Yes 🗹	N	o 🗌					
Sample containers intact?		Yes 🗹	Ne	o 🗌					
Sufficient sample volume for indicated test?		Yes 🗹	Ne	o 🗆					
All samples received within holding time?		Yes 🗹	N	o 🗌					
Container/Temp Blank temperature in compliance	ce?	Yes 🗹	- Ne	o 🗌	130	_			
Water - VOA vials have zero headspace?	No VOA vials subm	itted 🗹		Yes		No 🗌			
Water - pH acceptable upon receipt?		Yes 🗌	No	o 🗹					
	Adjusted?		_ Checked	d by: _					
Any No and/or NA (not applicable) response mu	st be detailed in the co	mments :	section belo	w. =			===		
Client contacted:	Date contacted:			P	erson c	ontacted:			
Contacted by:	Regarding:							·	
Comments: Sample 1/And PRIOR TO DORIVERY.	CARRIED.	HA	D BE	5.N	S70	ore	15	JAC	ecoc en
PRIOR TO DERIVERY.						***			
Corrective Action:									

Relinquished By: (Signat	Date: Time: Relinquistied By, (Signature)						1-11-07 1300 Soil 001171CAY	Date Time Matrix Sample I.D. No.	Fax# 505-632-1876	Phone #: 505-632-1782			10428 NW 82401	Address: #81 CR 3150	OIn	Client: And Willow Southern Ut	GRAIN-OF-GUS I OUT MEGUNU		
Reseived By: (Signature)	Received Ber (Signature)						× 0	Number/Volume HgCl ₂ HNO ₃ Ic e	Sample Temperature:	Sampler: Use Over	TORY OW	Project Manager:		Project #:	Mc Elvain Compressor		Other:	Std C Level 4 C	QA / QC Package:
	Remarks:						X 070	BTEX + M BTEX + M TPH Meth TPH (Met) EDB (Met) 8310 (PN) RCRA 8 M Anions (F, 8081 Pesi 8260B (V) 8270 (Ser	od 80° hod 4° hod 50° hod 80° A or Poetals CI, NO ticides OA)	- TPH 15B ((18.1) 04.1) 021) AH) / PCE	(Gasol	SO ₄)	nly)	ANALSIS RECOES		Tel. 505.345.3975 Fax 505.345.4107	4901 Hawkins NE, Suite D	ANALYSIS LABORATORY	

Air Bubbles or Headspace (Y or N)

HALL ENVIRONMENTAL

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 Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ALTROVAE	TO RECEIT SOED WINDLE
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: BP America Production
Verbal Approval Received: Yes No:	5. Originating Site: Florance 27
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o Box 2043 Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR) UL,LS-26,T-29N,R-9W	
A. All requests for approval to accept oilfield exempt wastes will be one certificate per job. B. All requests for approval to accept non-exempt wastes must be a material is not-hazardous and the Generator's certification of ori approved All transporters must certify the wastes delived by the second of the control of	accompanied by necessary chemical analysis to PROVE the gin. No waste classified hazardous by listing or testing will be ered are only those consigned for transport. location. Had hazardous waste and pesticide/herbicide analysis ith soil on location. Analysis performed: RCI8260, 8 RCRA
SIGNATURE Waste Management Facility Authorized Agent TYPE OR PRINT NAME: <u>Joel Owens</u> TELEPHONE NO. E-MAIL ADDRESS: <u>itowens@industrialecosystems.com</u>	TO THE CONTRACTOR OF THE CONTR
(This space for State Use)	CLOSTE IN
APPROVED BY: TITLE:	DATE:
APPROVED BY: TITLE:	DATE:

DUPLICATE



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor

Joanna Prukop Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name:
BP America Production Company	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
200 Energy Court	#81 CR 3150
Farmington, NM 87401	Aztec, NM 87410
	Phone # 505-632-1782 Fax No# 505-334-1003
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Florance 27	UL- 1 S-26 T- 291 R- 9 W or attach list
Attach list of originating sites as appropriate Str	reet Address:
4. Source and Description of Waste, Unknown drums left on location herbacide analysis done, results are herbacide. Mixed with soil on location.	non-hazardus waste and pesticites non-hazardous and no pesticides
Levin Honsford	representative for:
Print Name	- Spissonmitte IVI.
Analysis o	EMPT oilfield waste which is non-hazardous by characteristic by product identification and that nothing has been added to be or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentation is attached (chem MSDS InformationOther RCRA Hazardous Waste AnalysisChain of Custody	eck appropriate items): er (description
This waste is in compliance with Regulated Levels of Naturally OccuMAC 3.1 subpart 1403.C and D.	urring Radioactive Material (NORM) pursuant to 20
Name (Original Signature)	Phone Contact: <u>508 326-9279</u>
Title: FEC	P.O# / Pay key No: <u>ZDWBO74MJI</u>
Date: 7/17/06	

CHAIN OF CUSTODY RECORD

14928

Client / Project Name			Project Location					ANA	LYSIS / PAF	RAMETERS				2006
BLALL/BP Sampler:			Client No.	•	စ္						Remark	:s		V6:55am
9.0-13	rigg		94034	1-010	No. of Containers	H		į	į					=
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	2 6	RCL								From-Br
DRUM#1	60/17/05	1345	34688	LIQUID		·×				GRAP	-Sa.	MPLE	<u>. </u>	
Drum #Z	11	1350		l l	ı	×					t j			
Drun #3	И	1355		11	(×					ч			
						<u> </u>								
														9
														2028-076-07
		<u></u>												50,00
Relinquished by: (Signa	uture) Z		fa.	Date Time 18/05 0845	Received by	(Signati	ure)	Oi.		1.	Date	T 8'	ime	
Relinguished by: (Signa	uture)			10/5 3075	Received by:	(Signati	rte)	eta_		#	118/6	> (4)	7.3	_
Poline viehod by a (Siene	4.ma)	······································			Received by:	/Cianati	ra)							7-324
Relinquished by: (Signa	nure)				Received by:	(Signal)	naì		•	•			-	\ \f
				ENVIRO	TECH	In	\overline{C}			Sample	Receip	it		~
				Tarker State Control of the Control							Υ	N	N/A]
				5796 U.S Farmington, N	i. Highway lew Mexico		1			Received Intact	V			ءَ
					632-0615	01-10	•			Cool - Ice/Blue Ice	V			

CHAIN OF CUSTODY RECORD

Client / Project Name			Project Location				-				ANALYSIS	/ PARA	METERS					2006 0
BLAGE/BP Sampler: J. C. Ses			FLORANCE 2 Client No. 94034-		· · · · · · · · · · · · · · · · · · ·		of ners	0	RURA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				Rema	arks			06:55am
Sample No./	Sample Date	Sample Time	Lab Number		Sample Matrix		No. of Containers	8760	8 RURA METALS									From-BP
Dron #1	date	1345	34684	1	QUID		3	X	X				GRA	3-5A	MPE	F		
DRM #Z	11	1350	34685		14		3	X	×					Lj				
Deur #3	e ₁	1355	34686		11		3	×	×					У				
																		-
																		505-326-9262
Relinquished by: (Signatu	15		10/1	Date	Time 0845	1/h	ved by:	tu 1	nL) ()	Uten			Date		Tir		
Relinquished by: (Signatu	re)					Recei	ved by:	(Signati	ure)							<u></u>		T-324 P.
			E		IRO	TE(CH	In	C.				Samp	le Rece	ipi			P.003/020
					5796 U.S ington, N	S. High	ıway (54	**************************************				Received Inta	ct 1	Y	N	N/A	F-500
				<u> </u>		632-0							Cool - Ice/Blue	Ice '				

Osta: Time: (Relinquished By: (Signature)						ा <u>जानीका । ३५७६८</u>	1017 12 12 Water 34684	Datze Time Matrix Sample I.D. No.	S	Phone #: 505- 632-0615	mane envirotech-ine com		Faumington, N.M. 87410	Address: 5796 Hours 64		Client: Cnikrotech	CHAIN-OF-CUSTODY RECORD	
	Regulated Salv (Chrostoped)				3 vo4 7	2 yan 2	Z 10A	Number/Volume HgCl ₂ HNO ₂ HEAL No.	Sample Temperature: 00	Sampley. Blagg	Dervice Azeman		94034-010		Blagg 18P Florance 27	Project Name:	Std Level 4 🔲	QA/QC Package:
Ref Po# 3796 Ref Po# 3796					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	< < < < < < < < < < < < < < < < < < <	\ \ \	BTEX + M BTEX + M TPH Moth TPH (Met) EDB (Met) EDB (Met) B310 (PN RCRA 8 M Anions (F, 0) B081 Pest B260B (V) B270 (Sen	od 801 hod 41 hod 80 hod 80 A or P/ etals Cl. NO. cicides OA)	TPH 58 (0 8.1) 14.1) 21) AHD , NO ₂ / PCB	(Gaso jas/Di , PO ₄ ,	SO ₄)		ANALYSIS REQUEST	UUDD HEN INELINITERIEN AN AMA	Tel. 505.345.3975 Fax 505.345.4107	ANALYSIS LABORATORY 4901 Hawkins NE, Suite D	

Blagg/BP Florance 27

Date: 07-Nov-05

CLIENT:

Project:

Lab ID:

Envirolech

0510188-01A

Lab Order:

Client Sample ID: 34684

0510188

Tag Number:

Collection Date: 10/17/2005 1:45:00 PM

Mutrix: AQUEQUS

Analyses	Result	PQL.	Qual (Units	DF	Date Analyzed
PA METHOD 8260B: VOLATILES						Analyst: HLN
Benzenç	ND	50	ı	ug/L	50	10/24/2005
Toluene	ND	50		uġ/L	50	10/24/2005
Ethylbenzene	ND	50	ļ	µg/L	50	10/24/2005
Melhyl terl-bulyl ether (MTBE)	ND	50	t	ug/L	50	10/24/2005
1,2,4-Trimethylbenzene	ND	50	Ļ	ıg/L	50	10/24/2005
1,3,5-Trimethyibenzene	ND	50	ŀ	ıg/L	50	10/24/2005
1,2-Dichloroethane (EDC)	ND	50	,	ıg/L	50	10/24/2005
1,2-Dibromoethane (EDB)	ИĎ	50		λΩ/L	50	10/24/2005
Naphihalene	160	100	ŀ	19 /L	50	10/24/2005
1-Methylnaphthalene	490	200	ŀ	ıg/L	50	10/24/2005
2-Methylnaphthalene	570	200	,	ig/L	50	10/24/2005
Acelone	ND	500	L	ig/L	50	10/24/2006
Bromobenzene	ND	50).	ig/L	60	10/24/2005
Bromochloromethane	ND	50	Ļ	ig/L	50	10/24/2005
Bromodichloromethane	ND	50	H	 	50	10/24/2005
Bromoform	ND	50	, U	19/L	50	10/24/2005
Sromomethane	ND	100		ig/L	50	10/24/2005
2-Bulanone	ND	500	ų.	Ig/L	50	10/24/2005
Carbon disulfide	ND	500	بر	_ Jg/L	50	10/24/2005
Carbon Tetrachloride	ND	100		ig/L	50	10/24/2005
Chlorobenzene	ND	50	μ	- .g/L,	50	10/24/2005
Chlomethane	ND	100	µ	ig/L	50	10/24/2005
Chloroform	ND	50		ig/L	50	10/24/2005
Chloromethane	ND	50		_ .g/L	50	10/24/2005
2-Chlorotoluene	ND	50	µ	ıg/L	50	10/24/2005
4-Chiorotoluane	ON	50	-	ıg/L	50	10/24/2005
ds-1,2-DCE	ND	50		ig/L	50	10/24/2005
cis-1,3-Dichloropropene	· ND	50		ig/L	50	10/24/2005
1,2-Dibromo-3-chloropropane	ND	100		g/L	50	10/24/2005
Dibromochtoromethane	ND	50	¥	ig/L	50	10/24/2005
Dibromomethans.	ND	100	μ	ıg/L	50	10/24/2005
1,2-Dichlorobenzene	ND	50	Ų	ıg/L	50	10/24/2005
1.3-Dichloropenzene	ND	50	μ	ıg/L	50	10/2 <i>4/</i> 2005
1,4-Dichlorobenzene	ND	50	μ	g/L	50	10/24/2005
Dichlorodifluoromethane	NID	50	μ	g/L	50	10/24/2005
1,1-Dichloroethane	NO	50	μ	ıg/L	50	10/24/2005
1,1-Dichloroethene	ND	50	μ	g/L	50	10/24/2005
1,2-Dichloropropane	ND	50	μ	g/L	50	10/24/2005
1,3-Dichioropapane	ND	50	μ	g/L	50	10/24/2005
2,2-Dichloropropane	ND	50	ц	g/L	50	10/24/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

I - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

^{* -} Value exceeds Maximum Comminant Level

Date: 07-Nov-05

CLIENT:

Envirotech

0510188-01A

Client Sample ID: 34684

Lub Order:

0510188

Tag Number:

Project: Lab ID: Blagg/BP Florance 27

Collection Date: 10/17/2005 1:45:00 PM

Matrix: AQUEOUS

nalyses	Result	PQL	Qual Unit	s DF	Date Analyzed
1,1-Dichlaropropene	ND	50	µg/L	50	10/24/2005
Hexachlorobutacions	ND	50	µg/L	50	10/24/2005
2-Hexanone	ND	500	μ g/ L	50	10/24/2005
Isopropyibenzene	ND	50	μ ο /L	. 50	10/24/2005
4-isopropylloluene	ND	50	عالوم	50	10/24/2005
4-Melhyl-2-pantanone	ND	500	h8/F	50	10/24/2005
Mathylene Chloride	ND	150	μg/L	50	10/24/2005
n-Butylbenzene	ND	50	μg/L	50	10/24/2005
n-Propylberizene	ND	50	μ <u>α</u> /L	50	10/24/2005
sec-Bulyibanzana	ND	50	µg/L	50	10/24/2005
Styrene	ND	50	μg/L	50	10/24/2005
tert-Butylbenzene	ND	60	μg/L	50	10/24/2005
1,1,1,2-Telrechloroethane	ND	50	, hã/r	50	10/24/2005
1,1,2,2-Tetrachloroethane	ND	50	h ä /L	50	10/24/2005
Tetrachiomethene (PCE)	ND	50	µg/L	50	10/24/2005
trans-1.2-DCE	. ND	50	ին/ Ր	50	10/24/2005
trans-1,3-Dichloropropene	ND	50	μβ/Ι	50	10/24/2005
1,2,3-Trichlorobenzene	ND	SD	hayr	50	10/24/2005
1,2,4-Trichlorobenzene	ND	50	μg/L	50	10/24/2005
1,1,1-Trichloroethane	ND	50	μg/L	50	10/24/2005
1,1,2-Trichloroethane	ND	50	h3/L	50	10/24/2005
Trichloroethene (TCE)	ND	50	μ g/L	50	10/24/2005
Trichlorofluoromalhane	ND	50	μg/L	50	10/24/200 <i>5</i>
1,2,3-Trichloropropane	ЙN	100	µġ/L	50	10/24/2005
Vinyl chloride	ND	50	µg/L	50	10/24/2005
Xylenes, Tolal	ИD	50	μg/L	50	10/24/2005
Surr: 1,2-Dichloroethane-d4	94.7	69.9-130	%RE	C 50	10/24/2005
Surc 4-Bromofluorobenzeno	98.5	71.2-123	%RE	C 50	10/24/2005
Sum: Dibromofluoromethane	93.1	73.9-134	%RE	C 50	10/24/2005
Sunt Tolliene-d8	100	81.9-122	%RE	C 50	10/24/2005

ND - Not Detected at the Reporting Limit

I - Analyse desocred below quantitation limits

B - Analyte detected in the associated Method Blank

^{* -} Value exceeds Maximum Contaminant Lovel

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: 07-Nov-05

CLIENT:

Envirolech

0510188-013

Client Sample ID: 34684

Lab Order:

0510188

Tag Number:

Project: Lab ID: Blagg/BP Florance 27

Collection Date: 10/17/2005 1:45:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL (Qual Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY					Analysi; CMC
Mercury	ND	0.00020	mg/L	1	10/26/2005
EPA 6010: TOTAL RECOVERABLE	METALS				Analyst: NMO
Arsenic	ND	0.020	mg/L	1	10/24/2005 3:34:19 PM
Garium	0.061	0.020	mg/L	1	10/24/2005 3:34:19 PM
Cadmium	0.0060	0.0020	mg/L	1	10/21/2005 3:34:19 PM
Chramium	0.012	0.0060	mg/L	1	10/24/2005 3:34:19 PM
Lead	0.12	D.0050	mg/L	1	10/24/2005 3:34:19 PM
Salenium	NĎ	0.050	mg/L	1	10/24/2005 3:34:19 PM
Silver	ND	0.0050	mg/L	, 1	10/24/2005 3:34:19 PM

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte desected in the associated Method Blank

* - Value exceeds Maximum Consominant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID:

Lab ID#:

Blagg / BP Drum #2 34689

Project #:
Date Reported:
Date Sampled:

94034-010 10-18-06 10-17-05

Sample Matrix: Preservative: Condition: Liquid Cool

Cool and intact

Date Received: Date Analyzed:

Chain of Custody:

10-18-05 10-18-05 14928

Parameter

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

pH = 6.82

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

IGNITABILITY:

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 281.22.

(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23.

(I.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments:

Florance 27 Grab Samplé.

Analyst

Musture m Walten Beview



SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client:

Sample ID: Lab ID#: Sample Matrix: Preservative:

Drum #3 34690 Liquid Cool Cool and Intact

Blagg / BP

Project #:

Date Reported: Date Sampled:

Date Received:

Date Analyzed: Chain of Custody: 94034-010 10-18-06

10-17-05 10-18-05 10-18-05

14928

Parameter

Condition:

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

pH = 5.26

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

IGNITABILITY:

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22.

(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments:

Florance 27 Grab Sample.

Date: 07-Nov-05

CLIENT:

Envirotech

Client Sample ID: 34685

Lab Order:

0510188

0510188-02A

Tag Number:

Project: Lab ID:

Blagg/BP Florance 27

Collection Date: 10/17/2005 1:50:00 PM

Matrix: AQUEOUS

nalyses	Result	PQL	Qual Units	DF	Date Analyzed
PA METHOD 8260B: VOLATILES			A		Analyst: HLA
Benzene	ND	10	µg∕L	10	10/25/2005
Toluens	ND	10	µg/L	10	10/25/2005
Ethylbenzene	ND	10	µg/L	10	10/25/2005
Methyl lert-bulyl ether (MTBE)	ND	10	µg/L	10	10/25/2005
1,2,4-Trimethylbenzene	ND	10	µġ/L	10	10/25/2005
1,3,5-Trimelhylbenzene	ND.	10	μg/L	10	10/25/2005
1,2-Dichloroethane (EDC)	ND	10	µg/L	10	10/25/2005
1,2-Dibromoethana (EDB)	ND	10	µg/L	10	10/25/2005
Naphthalene	ND	20	µg/L	10	10/25/2005
1-Methylnaphthalene	ND	40	µg/L	10	10/25/2005
2-Methylnaphthalana	МD	40	µg/L	10	10/25/2005
Acelone	ND	100	hā/ŗ	10	10/25/2005
Bromobenzene	ND	10	μ g/L	10	10/25/2005
Bromochioromethane	ND	10	µg/L	10	10/25/2005
Bromodichloromethane	ND	10	μg/L	10	10/25/2005
Bromoform	ND	10	µg/L	10	10/25/2005
Bromomethane	ND	20	μg/L	10	10/25/2005
2-Bujanone	ND	100	µg/L	10	10/25/2005
Carbon disulfide	ND	100	µg/L	10	10/25/2005
Carbon Tetrachloride	ND	20	µg/L	10	10/25/2005
Chlorobenzene	ND	10	µg/L	10	10/25/2005
Chloroethane	ND	20	µg/L	10	10/25/2005
Chlarofarm Chlarofarm	ND	10	ha/r	10	10/25/2005
Chloromethane	ND	10	µg/L	10	10/25/2005
2-Chlorotoluene	ND	10	µg/L	10	10/25/2005
4-Chlorotoluens	ND	10	µg/L	10	10/25/2005
cis-1,2-DCE	ND	10	µg/L	10	10/25/2005
cis-1,3-Dichioropropene	NO	10	μ <u>g</u> /L	10	10/25/2005
1,2-Dibromo-3-chloropropane	ND	20	µg/∟	10	10/25/2005
Dibromochloromathane	ND	10	μg/L	10	10/25/2005
Dibromomethane	ND	20	hB/r	10	10/25/2005
7,2-Dichlorobenzene	ND	10	hð/r	10	10/25/2005
1,3-Dichlorobenzene	ND	10	μg/L	10	10/25/2005
1,4-Dichlombenzene	ND	10	µg/L	10	10/25/2005
Dichtorodifluoromethane	ND	10	μg/L	10	10/25/2005
1,1-Dichloroethane	ND	10	µg∕L	10	10/25/2005
1,1-Dichloroethene	NĎ	10	µg/L	10	10/25/2005
1,2-Dichloropropane	ND	10	μ g/L	10	10/25/2005
1,3-Dichloropropane	ND	10	μ <u>ο</u> /L	10	10/25/2005
2,2-Dichloropropane	ND	10	µg/L	10	10/25/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Mathial Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

^{*} E - Value above quantitation range

^{* -} Value exceeds Maximum Contaminant Level

Date: 07-Nov-05

CLIENT:

Envirotech

Client Sample ID: 34685

Lab Order:

0510188

0510188-02A

Tag Number:

Project: Lab ID: Blagg/BP Florance 27

Collection Date: 10/17/2005 1:50:00 PM

Matrix: AQUEOUS

nalyses	Result	PQL (Qual Units	DF	Date Analyzed
1.1-Dichloropropene	ND	10	ին/Ր	10	10/25/2005
Hexachlorobutadiene	ND	10	hā\r	10	10/25/2005
2-Hexanone	ND	100	μ g/L	10	10/25/2005
Isopropylbenzene	ND	10	μ 9/ L	10	10/25/2005
4-isopropyltoluene	ND	10	µg/ L	10	10/25/2005
4-Methyl-2-pantanone	ND	100	hB/r	10	10/25/2005
Methylene Chloride	ND	30	hB/L	10	10/25/2005
n-Bulylbenzene	ND	10	μg/L	10	10/25/2005
n-Propylbenzene	ND	10	μ g/ L	10	10/25/2005
sec-Buty/benzene	ND	10	' μ <mark>g</mark> /L	10	10/25/2005
Styrene	ND	10	µ g/L	10	10/25/2005
tert-Butylbenzene	ND	10	µg/L	10	10/25/2005
1,1,1,2-Tetrachioroethane	ND	10	µg/L	10	10/25/2005
1,1,2,2-Tetrachloroethane	ND	10	μ <u>α</u> /L	10	10/25/2005
Tetrachlomethens (PCE)	ND	10	μġ/L	10	10/25/2005
trans-1,2-DCE	ND	10	µg/L	10	10/25/2005
trans-1,3-Dichloropropene	ND	10	havr	10	10/25/2005
1,2,3-Trichlorobenzene	ND	10	µg/L	10	10/25/2005
1,2,4-Trichlorobertzene	NŌ	10	µg/L	10	10/25/2005
1,1,1-Trichloroethane	ND	10	µg/L	10	10/25/2005
1,1,2-Trichloroethane	ND	10	μg/L	10	10/25/2005
Trichlomethene (TCE)	ND	10	hB/r	10	10/25/2005
Trichlorofluoromethane	ND	10	hall	10	10/25/2005
1,2,3-Trichloropropane	NO	20	hā/L	• 10	10/25/2005
Vlnył chłoride	ND	10	hā/r	10	10/25/2005
Xylenes, Total	ND	10	ր ց/L	10	10/25/2005
Surr. 1,2-Dichloroethane-d4	106	69,9-130	%REC	10	10/25/2005
Sur: 4-Bromolivorobenzens	109	71.2-123	%REC	10	10/25/2005
Sur: Dibromofluoromethans	103	73_9-134	%REC	10	10/25/2005
Sum: Toluene-d8	98.7	81.9-122	%REC	10	10/25/2005

Qualifiers:

ND - Not Descried at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

^{* -} Value exceeds Maximum Contaminant Luvel

S - Spike Recovery outside accepted recovery limits

R - RPD outside agreepted recovery limits

E - Value above quantitation range

Date: 07-Nov-05

CLIENT:

Envirotech

0510188-02B

Client Sample 1D: 34685

Lab Order:

0510188

Tag Number:

Project: Lab ID: Blagg/BP Florance 27

Collection Date: 10/17/2005 1:50:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: CMC
Mercury	ND	0.00020		mg/L	1	10/26/2005
EPA 6010: TOTAL RECOVERABLE I	METALS					Analyst NMO
Arsenic	ND	0.020		mg/L	1	10/24/2005 3:38:21 PM
Barlum	0.023	0.020		mg/L	1	10/24/2005 3:38:21 PM
Cadmium	ND	0.0020		mg/L	1	10/24/2005 3:38:21 PM
Chromium	0.031	0.0060		mg/L	1	10/24/2005 3:38:21 PM
Lead	0.019	0.0050		mg/L	1	10/24/2005 3:38:21 PM
Selenium	NĎ	0.050		mg/L	1	10/24/2005 3:38:21 PM
Silver	ND	0.0050		mg/L	1	10/24/2005 3:38:21 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyse detected in the associated Method Blank

* - Value exceeds Maximum Contamirum Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

£ - Value above quantitation range

Date: 07-Nov-05

CLIENT: Lab Order:

Envirotech

Λ5

0510188

Project:

Blagg/BP Florance 27

Lab ID;

0510188-03A

Client Sample ID: 34686

Tag Number:

Collection Date: 10/17/2005 1:55:00 PM

Matrix: OIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
PA METHOD 8260B: VOLATILES		7			Analyst: BDI
Bertzene	ND	24	mg/Kg	10	10/28/2005
Toluene	ND	24	ന്നൂ/Kg	10	10/26/2005
Ethylbenzena	МD	24	mg/Kg	10	10/26/2005
Methyl lert-butyl ether (MTBE)	ПN	24	mg/Kg	10	10/26/2005
1,2,4-Trimethythenzene	ND	24	mg/Kg	10	10/26/2005
1,3,5-Trimethyibenzena	ND	24	mg/Kg	10	10/26/2005
1,2-Dichloroethane (EDC)	ND	24	mg/Kg	10	10/26/2005
1,2-Dibromoethane (EDB)	ND	24	mg/Kg	10	10/26/2005
Naphthalene	ND	48	mg/Kg	10	10/26/2005
1-Methylnaphthalene	ND	98	mg/Kg	10	10/26/2005
2-Methylnaphthalene	NĎ	96	mg/Kg	10	10/26/2005
Acelone	ND	240	mg/Kg	10	10/25/2005
Bromebenzene	ND	24	mgrKg	10	10/25/2005
Bramochloramethane	ND	24	mg/Kg	10	10/26/2005
Bromodichloromethane	ND	24	mg/Kg	10	10/26/2005
Bromaform	ND	24	ന്യ/Kg	10	10/26/2005
Bromomethane	- ND	24	mg/Kg	10	10/26/2005
2-Bulanone	ND	240	mg/Kg	10	10/26/2005
Cerbon disulfide	ND	240	mg/Kg	10	10/26/2005
Carbon Tetrachloride	ND	24	mg/Kg	10	10/26/2005
Chlorobenzene	ND	48	mg/Kg	10	10/26/2005
Chloroethane	ND	24	mg/Kg	10	10/26/2005
Chiproform	ND	24	mg/Kg	10	10/26/2005
Chloromethane	ND	24	mg/Kg	10	10/26/2005
2-Chlorotoluene	ND	24	mg/Kg	10	10/26/2005
4-Chlorotoluene	ND	24	mg/Kg	10	10/25/2005
ds-1,2-DCE	ND	24	mg/Kg	10	10/26/2005
cis-1,3-Dichloroproperie	ND	24	mg/Kg	10	10/26/2005
1,2-Dibromo-3-chiorapropane	ND	48	mg/Kg	10	10/26/2005
Dibromochioromelhane	ND	48	mg/Kg	10	10/26/2005
Dibromomethane	ND	24	mg/Kg	10	10/26/2005
1,2-Dichlorobenzena	ND	24	mg/Kg	10	10/26/2005
1,3-Dichlorobenzene	NO	24	mg/Kg	10	10/26/2005
1,4-Dichlorobentzens	· ND	24	mg/Kg	70	10/26/2005
Dichlorodifluoromethane	ND.	24	mg/Kg	10	10/26/2005
1.1-Dichloroethane	ND	24	mg/Kg	10	10/26/2005
1,1-Dichlomethene	ND	24	mg/Kg	10	10/26/2005
1,2-Dichloropropane	ND	24	mg/Kg	10	10/26/2005
1.3-Dichtoropropane	ND	24	mg/Kg	10	10/26/2005
2,2-Dichloropropane	ND	24	mg/Kg	10	10/26/2005

Qualifiers:

ND - Not Descried as the Reporting Limit

J - Analyte desected below quantitation limits

B - Analyte detected in the associated Method Blank

⁻ Value exceeds Maximum Contamiumt Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Dute: 07-Nov-05

CLIENT:

Envirotech

0510188-03A

Client Sample ID: 34686

Lab Order:

0510188

Tag Number:

Project: Lab ID:

Blagg/BP Florance 27

Collection Date: 10/17/2005 1:55:00 PM

Matrix: OIL

nalyses	Result	PQL	Qual L	Jnits	DF	Date Analyzed
1,1-Dichlaropropene	ND	24	n	ng/Kg	10	10/26/2005
Hexachlorobutadiene	ďИ	24		19/Kg	10	10/26/2005
2-Hexanone	ПN	240	m	ng/Kg	10	10/28/2005
Isopropylbenzene	NO	24	m	ng/Kg	10	10/26/2005
4-isapropylloluene	ND	24	, w	ıg/Kg	10	10/26/2005
4-мењуі-2-репіапопа	ND	240	m	ng/Kg	10	10/26/2005
Mathylene Chloride	ND	72	rπ	ng/Kg	10	10/26/2005
n-Butylbenzene	ND	24	កា	vg/Kg	10	10/26/2005
n-Propylbenzene	ND	24	m	ig/Kg	- 10	10/26/2005
sec-Butylbenzene	ND	24		ig/Kg	10	10/26/2005
Styrene	ND	24	m	g/Kg	10	10/26/2005
lert-Butylbenzene	ND	24	m	g/Kg	10	10/26/2005
1,1,1,2-Tetrachloroethane	ND	24	m	g/Kg	10	10/26/2005
1,1,2,2-Tetrachloroethane	ND	24		g/Kg	10	10/26/2005
Tetrachioroethene (PCE)	ND	24	m	ig/Kg	10	10/26/2005
trans-1,2-DCE	, 'ND	24		g/Kg	10	10/28/2005
Irans-1,3-Dichloropropene	ND	24		g/Kg	10	10/26/2005
1,2,3-Trichlorobenzene	ND	24	m	g/Kg	10	10/26/2005
1,2,4-Trichiorobenzene	ND	24	m	g/Kg	10	10/26/2005
1,1,1-Trichloroethane	ND	24	m	g/Kg	10	10/26/2005
1,1,2-Trichloroethane	ND	24	Tt)	g/Kg	10	10/26/2006
Trichloroethene (TCE)	ND	24	m	g/Kg	10	10/26/2005
Trichlorofluoromethane	ND	24	m	g/Kg	10	10/26/2005
1,2,3-Trichloropropane	ND	48	m	g/Kg	10	10/28/2005
Vinyl chloride	ND	24	ធារុ	g/Kg	10	10/26/2005
Xylenes, Total	ND	24	m	g/Kg	10	10/26/2005
Surr. 1,2-Dichlorgethane-d4	8,99	80-120	%	REC	10	10/28/2005
Surr. 4-Bromofluorobenzene	110	80-120	%	REC	10	10/26/2005
Surr. Dibromofluoromethane	105	80-120	. %	REC	10	10/26/2005
Surr: Taluana-dB	99.6	80-120	%	REC	10	10/26/2005

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - IVD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

^{- -} Value exceeds Maximum Contaminant Level

Date: 07-Nov-05

CLIENT:

Envirotech

Client Sample ID: 34686

Lab Order:

0510188

Tag Number:

Project: Lnb ID: Blagg/BP Florance 27

Collection Date: 10/17/2005 1:55:00 PM

0510188-03B Matrix: AQUEOUS

Analyses	Result	PQŁ Qu	al Units	DF	Daie Analyzed
EPA METHOD 245.1: MERCURY			•		Analyst: CMC
Mercury	ND	0.00020	mg/L	1	10/28/2005
EPA 6010: TOTAL RECOVERABLE N	METALS				Analyst: NMO
· Arsenic	ND	0.020	mg/L	1	10/24/2005 3:41:17 FM
Barlum	ND	0.020	mg/L	1	10/24/2005 3:41:17 PM
Cadmium	ЙŅ	0.0020	mg/L	1	10/24/2005 3:41:17 PM
Chromium	ND	0.0060	mg/L	1	10/24/2005 3:41:17 PM
Lead	ИD	0.0050	mg/L	1	10/24/2005 3:41:17 PM
Selenium	ND	0.050	mg/L	1	10/24/2005 3:41:17 PM
Silver	ND	0.0050	mg/L	1	10/24/2005 3:41:17 PM

Qualiflers:

NO - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery timits

J - Analyse detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

• - Value exceeds Maximum Contaminant Level 10/18

Page 9 of 9

CHAIN OF CUSTODY RECORD

15434

,												
Client / Project Name			Project Location		ANALYSIS / PARAMETERS							
Sampler: 1. C Slage			BP-FLORANCE 27 Client No. 94034-010		No. of	HERBUDES			F	Remark	5	
Sample No./	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of	PESHONES THERMOND						
SOIL STOCKALE	1/24/06	ાવ	35912	SOIL	1	X			5-Po	nt Ca	יניקאיני	Ye
											-	
				-					·			
					· · · · · · · · · · · · · · · · · · ·	ļ					, <u> </u>	
									<u> </u>			
Relinquished by: (Signature) Pelinquished by: (Signature)			Date Time	Received by:	· /b	Date Time						
Beilnquished by: (Signatu	re)		7		Received by:	(Signatu	ire)		F	-1.5		
Relinquished by: (Signature)					Received by:	(Signatu	ire)					
				ENVIRO	TECH	IN	C.	-	Sample	Receipt	·	T
			i		. Highway				Received Intact	Y	N	N/A
				Farmington, N (505)	lew Mexico 632-0615	8740	ſ		Cool - Ice/Blue Ice	-		

Date: 21-Feb-06

CLIENT:

Énvirotech

Client Sample ID: 35912/Soil Sample

Lab Order:

0601282

Collection Date: 1/26/2006 11:41:00 AM

Project:

Blagg

Date Received: 1/27/2006

Lab ID:

0601282-01

Matrix: SOIL

Analyses	Resuit	PQL	Qual L	Inits	DF	Date Analyzed
EPA METHOD 8081: PESTICIDES						Analyst: BL
4,4°-DDD	ND	0.0020	n	ng/Kg	1	2/7/2006 10:35:29 PM
4,4'-DDE	ND	0.0020	ń	ng/Kg	1	2/7/2006 10:35:29 PM
4,4'-DDT	ND	0.0040	п	ng/Kg	1	2/7/2006 10:35:29 PM
Aldrin	ND	0.0020	ſſ	ng/Kg	1	2/7/2006 10:35:29 PM
alpha-BHC	ND	0.0020	' п	ng/Kg	1	2/7/2006 10:35:29 PM
bela-8HC	ND	0.0020	η	ng/Kg	1	2/7/2006 10:35:29 PM
Chlordane	ND	0.25	r	ng/Kg	1	2/7/2006 10:35:29 PM
delta-BHC	ND	0.0020	n	ng/Kg	1	2/7/2006 10:35:29 PM
Dieldrin	ND	0.0020	11	ng/Kg	1	2/7/2006 10:35:29 PM
Endosulfan í	ND	0.0020	rı	ng/Kg	1	2/7/2006 10:35:29 PM
Endosuffan II	ND	0.0020	II.	ng/Kg	1	2/7/2006 10:35:29 PM
Endosulfan sulfale	NO	0.0020	11	ng/Kg	1	2/7/2006 10:35;29 PM
Endrin	ND	0,0020	п	ng/Kg	1	2/7/2006 10:35:29 PM
Endrin aldehyde	ND	0.0020	r:	ng/Kg	1	2/7/2006 10:35:29 PM
gamma-BHC	ND	0.0020	n	ng/Kg	1	2/7/2006 10:35:29 PM
Heotachlor	ND	0.0020	п	1 <u>0</u> /Kg	1	2/7/2006 10:35:29 PM
Heptachior epoxide	ND	0.0020	n	ng/Kg	1	2/7/2008 10:35:29 PM
Methoxychlor	ND	0.0020	n	ng/Kg	1	2/7/2006 10:35:29 PM
Toxaphena	ND	0.25	п	ng/Kg	1	2/7/2006 10:35:29 PM
Surr. Decachlorobiphenyl	84.0	56,9-154	9	4REC	1	2/7/2006 10:35:29 PM
Sum Tetrachloro-m-xylene	108	51.5-116	9	4REC	1	2/7/2006 10:35:29 PM

Quulifiers:

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

NO Not Detected at the Reporting Limit



ENERGY LABORATORIES, INC. . P.O. Box 30916 . 1120 South 27th Street . Billings, MT 59107-0916 800-735-4-189 • 406-252-6325 • 406-252-6069 (ax • ali@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque

Report Date: 02/10/06

Project: 0601282

Collection Date: 01/26/06 11:41

Lab ID: 806020166-001

Date Received: 02/02/06

Client Sample ID: 0601282-01A

Matrix: Soil

			••	MCL		
Analyses	Result	Units	Qual	RL QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS						
Moisture	14	w4%		0.01	SW3550A	02/07/06 09:37 / sms
HERBICIDES, CHLORINATED						
2,4,5-T	ND	w a /ka		0.0040	SW8151A	02/07/06 22:10 / Jkh
2.4.5-TP (Silvex)	ND	mg/kg		0.0040	SW8151A	02/07/06 22:10 / jkh
2.4-D	ND	mg/kg		0.020	SW8151A	02/07/06 22:10 / Jkh
2,4-D8	ND	mg/kg		0.050	SW8151A	02/07/06 22:10 / Jkh
3,5-Dichlerobenzoic Acid	ND	mg/kg		0.010	SW8151A	02/07/06 22:10 / jkh
4-Nitrophenol	ND.	mg/kg		0.010	SW8151A	02/07/06 22:10 / jkh
Acifluorien	NO	wa/ka		0.010	SW8151A	02/07/06 22:10 / jkh
Bentazon	ND	. mg/kg		0.050	SW8151A	02/07/06 22:10 / jkh
Chloramben	ND	យពិប្រជ		0.010	SW8151A	02/07/06 22:10 / Jkh
Dacihal	ND	mg/kg		0.020	SW8151A	02/07/08 22:10 / jkh
Dalapon	ND	mg/kg		0.050	SW8151A	02/07/06 22:10 / Jkh
Dicamba	ND	mg/kg		0.0050	SW8151A	02/07/06 22:10 / jkh
Dichlorprop	ND	mg/kg		0.020	SW8151A	02/07/05 22:10 / Jkh
Dinoseb	ND	mg/kg		0,020	SW8151A	02/07/06 22:10 / jkh
MCPA	ND	mg/kg		4.0	SW8151A	02/07/05 22:10 / jkh
MCPP	ND	mg/kg		4.0	SW8151A	02/07/06 22:10 / jkh
Pentachiorophenol	ND	mg/kg		0.0020	SW8151A	02/07/06 22:10 / jkh
Picloram	ND	mg/kg		0.010	SW8151A	02/07/05 22:10 / jkh
Sun: DCAA	72.8	%REC		45-1		02/07/06 22:10 / jkh

Report

RL - Analyte reporting limit.

Definitions:

OCL - Quality control limit,

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Date: Time: Refinquished By: (Signature) Date: Time: Refinquished By: (Signature)				1/24/06 1141 Soil 35912 Stockele	Date Time Metrix Sample I.D. No.	m#: 505 632 1865	Phone #: 505 632 0615	87401	Talmontha NM	-	dient Environech Inc	CHAIN-OF-CUSTODY RECORD
Received By: (Signature)				1-402 0601282	Number/Violume HgCi ₂ HNO ₃ HEALNo.	Sample Temperature:	Sampler: Jeff Blagg	Dammis Ateman	94034-010	Project #:	Project Name:	QA/GC Parkage: Stot 🔾 Level 4 🔾 Other:
Remerks: Ry PO# 4/4/ Comments: 5 point Camposate					BTEX + M TPH Meth TPH (Meth EDB (Meth EDC (Meth B310 (PN) RCRA 8 M	hod 80° hod 41 hod 50° hod 80° A or P/ stels CI, NO. blaides OAI mi-VOA	158 (0 8.1) 14.1) 121) 1. NO ₂ 2. PCB	izides		ANALYSIS REQUEST	Tal. 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com	

<u>District 1</u> 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 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

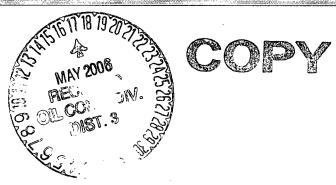
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit Original Plus 1 Copy to Appropriate District Office

Revised March 17, 1999

Form C-138

REQUEST FOR APPROVAL TO ACCEPT	T SOLID WASTE
1. RCRA Exempt: X Non-Exempt:	4. Generator: Largo Tank & Equipment, Inc.
Verbal Approval Received: Yes No. X	5. Originating Site: Largo Tank & Equipment, Inc.
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: Inland Trucking
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o Box 2043 Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR) 5720 US Hwy 64, Farmington, New Mexico, 87401	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. 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 All transporters must certify the wastes delivered are only thousand the Generator's certification of origin. No waste classification of origin or origination or origin or origination or origin or origin or origination or origin or origin or origination or origin or origin or origin or origination or origin or origi	ecessary chemical analysis to PROVE the ssified hazardous by listing or testing will be see consigned for transport. rthen Pit. Pit used to Contain Rinsate from
SIGNATURE Waste Management Facility Authorized Agent TITLE: Operations Management	ager DATE: <u>5//7/</u> 06
TYPE OR PRINT NAME: <u>JOEL OWENS</u> T	ELEPHONE NO. <u>(505) 632-1782</u>
E-MAIL ADDRESS: <u>itowens@industrialecosystems.com</u>	
(This space for State Use) APPROVED BY: Brand Sall TITLE: Envirol APPROVED BY:	DATE: 5/17/06
10/10/10	







NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor
Jounna Prukop
Cubinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

	O Passinatina Nama:
1. Generator Name and Address	2. Destination Name:
Largo Tank & Equipment, Inc.	J.F.J. Landfarm C/O Industrial Ecosystems inc.
5720 US Hwy 64	#81 CR 3150
Farmington, NM 87401	Aztec, NM 87410
	Phone # 505-632-1782 Fax No# 505-334-1003
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Largo Tank & Equipment, Inc.	•
	UL- S- T- R- or attach list Street Address: 5720 US N Hwy. 64, Farmington
	Street Address: _5720 US N Hwy. 64, Farmington
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
(mm	
Hydrocarbon impacted soil fee old earthen pit. Pi	tused to contain rinsate from steam cleaning of
crude oil transport trailers	•
1 David Wagoner	representative for:
1. David Wagoner Print Name	
Largo Tonk & Fallot. Tuc. dol	nereby certify that, according to the Resource Conservation and Recovery
Act (RCRA) and Environmental Protection Agency's July	988, regulatory determination, the above described waste is:
(Check appropriate classification)	Trock to Market 1 and a market to the track th
(, -FF. of	
EXEMPT oilfield waste X	NON-EXEMPT oilfield waste which is non-hazardous by characteristic
-	Analysis or by product identification and that nothing has been added to
	The exempt or non-exempt non-hazardous waste defined above.
	The exempt of home exempt that majorded water defined address
For NON EYEMPT weets the following documentation is	the field (cheate managed to the to
For NON-EXEMPT waste the following documentation is: MSDS Information	
x RCRA Hazardous Waste Analysis	Other (description
x Chain of Custody	
_xcliam of custody	
This course is in a course if you are in the same in t	
I his waste is in compliance with Regulated Levels of Nat	urally Occurring Radioactive Material (NORM) pursuant to 20
NMAC 3.1 subpart 1403.C and D.	
Name (Original Signature):	Phone Contact: (505) 327-6281
Title: Presicient	P.O# / Pay key No:
	The second secon
Date: 5/15/06	

Souder, Miller & Associates

Scientists & Engineers P.O. Box 2606 Farmington, NM 87499-2606 612 East Murray Drive Farmington, NM 87401-6624 Phone (505) 325-5667 Fax (505) 327-1496 www.soudermiller.com



Facsimile Transmittal Form

To:

At:

Joel

IEI

632-1876

Fax:

Date: May 12, 2006

From:

Walter Gage¹

At:

Souder, Miller & Associates

Fax:

(505) 327-1496

Pages: 12

Re: Largo Tank Non-Exempt Soil Disposal

Comments: Here are the analytical results for the excavated soil at Largo Tank and Equipment, 5720 US Hwy 64, Farmington, NM. We anticipate 350 to 400 yds³ of soil to be disposed at your facility as non-exempt oilfield waste. The soil was analyzed for total petroleum hydrocarbons as gasoline, diesel, and motor oil by EPA method 8015; volatiles by EPA Method 8260; and the RCRA metals As, Ba, Cd, Cr, Pb, Se, and Ag by EPA method 6010 and Hg by EPA Method 7471.

☐ For Your Information	☐ As Requested	☐ For Approval	□ Approved	☐ For Record
☐ Please Call to Discuss	☐ Please Follow Up	☐ Please Return Signed	☐ Please Retain	□ No Original to Follow

If you did not receive all pages listed or if pages are not legible, please immediately notify the sender by telephone.

If this has been sent to you in error, please destroy.



612 E. Murray Drive Farmington, NM 87401

Off: (505) 327-1072 Fax: (505) 327-1496 iiná bá

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

May 12, 2006

Walter Gage Souder, Miller & Associates 612 E. Murray Dr Farmington, NM 87401

TEL: (505) 325-5667 FAX (505) 327-1496

RE: Largo Tank Yard- Near OWS

Dear Walter Gage:

Order No.: 0604042

iiná bá received 1 sample on 4/28/2006 5:10:00 PM for the analyses presented in the following report.

This is a preliminary report that contains incomplete data or data that has not been fully validated. Caution should be exercised in the use of any data presented as final reported results may not reflect the values presented.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By:

Jeffrey Engels Laboratory Director

Edwina Aspaas

Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.





P.O. Box 2606 Farmington, NM 87499

Off: (505) 327-1072 FAX: (505) 327-1496

iiná bá

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

iiná bá

Date: 12-May-06

CLIENT:

Souder, Miller & Associates

Project:

Largo Tank Yard- Near OWS

Lab Order:

0604042

CASE NARRATIVE

Samples were analyzed using the methods outlined in one or more of the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

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

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

Methods for the Determination of Metals in Environmental Samples, Supplement 1, EPA-600/R-94/111,

May 1994.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

Hall Environmental analyzed for EPA Method 8260 volatiles. Their report is attached.

P.O. Box 2606 Farmington, NM 87499

Off: (505) 327-1072 FAX: (505) 327-1496



P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

CLIENT:

Souder, Miller & Associates

Work Order:

0604042

Project:

Largo Tank Yard- Near OWS

Lab ID:

0604042-001B

Date: 12-May-06

Client Sample Info: Largo Tank Yard- Near OWS

Client Sample ID: Largo Tank I

Collection Date: 4/28/2006 4:30:00 PM

Matrix: SOIL

Parameter	Result	PQL ()ual	Units	DF	Date Analyzed
DIESEL AND OIL RANGE ORGANICS		SW801	15B			Analyst: jem
T/R Hydrocarbons: C10-C22	9030	500		mg/Kg	20	5/8/2006
T/R Hydrocarbons: C22-C36	5890	1000		mg/Kg	20	5/8/2006
Surr: o-Terphenyl	178	46-148	S	%REC	20	5/8/2006
GASOLINE RANGE ORGANICS		SW801	15B	(\$W50	35A)	Analyst: jem
T/R Hydrocarbons: C6-C10	164	2.50		mg/Kg	25	5/2/2006
Surr: Trifluorotoluene	78.4	70-130		%REC	25	5/2/2006
ICP METALS, TOTAL		SW601	10B	(SW3))50B)	Analyst: jie
Arsenic	< 1.10	1.10		mg/Kg	1	5/9/2006 2:44:32 PM
Barium	83.0	0.255		mg/Kg	1	5/9/2006 12:06:39 PM
Cadmium	< 0.0849	0.0849		mg/Kg	1	5/9/2006 12:06:39 PM
Chromium	5.67	0.722		mg/Kg	1	5/9/2006 12:06:39 PM
Lead	9.97	0.722		mg/Kg	1	5/9/2006 12:06:39 PM
Selenium	< 1.36	1.36		mg/Kg	1	5/9/2006 2:44:32 PM
Silver	< 0.297	0.297		mg/Kg	1	5/9/2006 2:44:32 PM
MERCURY, TOTAL		SW74	171	(SW7	171)	Analyst: jem
Mercury	< 0.199	0.199		mg/Kg	1	5/2/2006

ND - Not Detected at the Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

J Singite steeld below Practical Quantitation simil

B analytic crosed is he also sited Mesod Blank

Plo outsi accepted recisionalinints

H - Parameter exceeded Maximum Allowable Holding Time

Date: 12-May-06

CLIENT:

Souder, Miller & Associates

Work Order:

0604042

Project:

Largo Tank Yard- Near OWS

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_S

Barlum														
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qualiform	Sample ID	0604036-002APDS	SampType:	PDS	TestCod	e: 6010B_S	Units: mg/Kg		Prep Date	:		Run ID: ICF	_1_060509 <i>A</i>	1
Barium 620.3 2.61 434.7 205.4 95.4 75 125 0 0	Client ID:	ZZZZ Z	Batch ID:	1260	TestN	o: SW6010B	(SW3050B)		Analysis Date	5/9/200	6	SeqNo: 113	3220	
Sample ID 0604036-002APDS SampType: PDS TestCode: 6010B_S Units: mg/Kg Prep Date: Seq.	Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Client ID: ZZZZZ	Barium			620.3	2.61	434.7	205.4	95.4	75	125	0	0		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual Arsenic 397.7 11.3 434.7 0 91.5 75 125 0 0 0 Sample ID MB_1260 SampType: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 SeqNo: 113210 S	Sample ID	0604036-002APDS	SampType:	PDS	TestCod	e: 6010B_S	Units: mg/Kg	<u></u>	Prep Date	:		Run ID: ICF	_1_060509E	3
Arsenic 397.7 11.3 434.7 0 91.5 75 125 0 0 0	Client ID:	ZZZZZ	Batch ID:	1260	TestN	o: SW6010B	(SW3050B)		Analysis Date	: 5/9/200	6	SeqNo: 113	3454	
Sample ID MB_1260 SampType: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 Run ID: ICP_1_060509A Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/9/2006 SeqNo: 113210 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit High Limit RPD Ref Val %RPD RPDLimit Qua Barium 0.07259 0.300 0.100	Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Client ID: ZZZZZ	Arsenic			397.7	11.3	434.7	0	91.5	75	125	0	0		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual Spring Qual Qual Qual Qual Qual Qual Qual Qual	Sample ID	MB_1260	SampType:	MBLK	TestCod	e: 6010B_S	Units: mg/Kg		Prep Date	: 5/2/200	6	Run ID: ICF	2_1_060509A	
Barium	Client ID:	ZZZZZ	Batch ID:	1260	TestN	o: SW6010B	(SW3050B)		Analysis Date	5/9/200	6	SeqNo: 113	3210	
Cadmium < 0.100 0.100 Chromium 0.2757 0.851 Lead 0.2944 0.851 Sample ID MB_1260 SampType: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 Run ID: ICP_1_060509B Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/9/2006 SeqNo: 113446 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua Arsenic 0.5353 1.30 J	Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium 0.2757 0.851 J Lead 0.2944 0.851 J Sample ID MB_1260 SampType: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 Run ID: ICP_1_060509B Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/9/2006 SeqNo: 113446 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua Arsenic 0.5353 1.30 J <td>Barium</td> <td></td> <td>(</td> <td>0.07259</td> <td>0.300</td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>J</td>	Barium		(0.07259	0.300	-				-				J
Lead 0.2944 0.851 J Sample ID MB_1260 SampType: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 Run ID: ICP_1_060509B Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/9/2006 SeqNo: 113446 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD RPDLimit Qua Arsenic 0.5353 1.30 J														
Sample ID MB_1260 SampType: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 Run ID: ICP_1_060509B Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/9/2006 SeqNo: 113446 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua Arsenic 0.5353 1.30 J J J J Selenium 0.3774 1.60 J J J J SampI Jpe: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 Run ID: ICP_1_060512A Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/12/2006 SeqNo: 113461 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua														J
Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/9/2006 SeqNo: 113446 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual Arsenic 0.5353 1.30 J <td< td=""><td>Lead ————</td><td></td><td></td><td>0.2944</td><td>0.851</td><td></td><td></td><td></td><td></td><td></td><td>·</td><td></td><td></td><td>J</td></td<>	Lead ————			0.2944	0.851						·			J
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual %Renic 0.5353 1.30 J J Selenium 0.3774 1.60 J J Sample ID MB_1260 SampType: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 Run ID: ICP_1_060512A Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/12/2006 SeqNo: 113461 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual	Sample ID	MB_1260	SampType:	MBLK	TestCod	e: 6010B_S	Units: mg/Kg		Prep Date:	5/2/200	6	Run ID: ICF		3
Arsenic 0.5353 1.30 J Selenium 0.3774 1.60 J Sample ID MB_1260 SampType: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 Run ID: ICP_1_060512A Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/12/2006 SeqNo: 113461 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua	Client ID:	ZZZZ	Batch ID:	1260	TestN	o: SW6010B	(SW3050B)		Analysis Date:	5/9/200	6	SeqNo: 113	3446	
Selenium 0.3774 1.60 J Sample ID MB_1260 SampType: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 Run ID: ICP_1_060512A Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/12/2006 SeqNo: 113461 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua	Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit F	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID MB_1260 SampType: MBLK TestCode: 6010B_S Units: mg/Kg Prep Date: 5/2/2006 Run ID: ICP_1_060512A Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/12/2006 SeqNo: 113461 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua	Arsenic			0.5353	1.30									J
Client ID: ZZZZZ Batch ID: 1260 TestNo: SW6010B (SW3050B) Analysis Date: 5/12/2006 SeqNo: 113461 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua	Selenium			0.3774	1.60									J
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qua	Sample ID	MB_1260	SampType:	MBLK	TestCod	e: 6010B_S	Units: mg/Kg		Prep Date:	5/2/200	6	Run ID: ICF	_1_060512 <i>A</i>	١
	Client ID:	72777	Batch ID:	1260	TestN	o: SW6010B	(SW3050B)		Analysis Date	5/12/20	06	SeqNo: 113	3461	
	Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver 0.1815 0.350	Silver			0.1815	0.350									J

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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

Souder, Miller & Associates

Work Order:

0604042

Project:

Largo Tank Yard- Near OWS

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_S

Sample ID L	_CS_1260	SampType: LCS	TestCo	ode: 6010B_S	Units: mg/Kg		Prep Date	e: 5/2/200	6	Run ID: ICF	P_1_060509A	\
Client ID: Z	77777	Batch ID: 1260 .	Test	No: SW6010B	(SW3050B)		Analysis Dat	e: 5/9/200	6	SeqNo: 113211		
Analyte		Result	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium		48.14	0.300	49.93	0.07259	96.3	75	125	0	0		
Cadmium		51.2	0.0999	49.93	0	103	75	125	0	0		
Chromium		49.02	0.849	49.93	0.2757	97.6	75	125	0	0		
Lead		50	0.849	49.93	0.2944	99.5	75	125	0	0		
Sample ID L	_CS_1260	SampType: LCS	TestCo	ode: 6010B_S	Units: mg/Kg	-	Prep Date	e: 5/2/200	16	Run ID: ICI	P_1_060509E	3
Client ID: Z	77777	Batch ID: 1260	Test	No: SW6010B	(SW3050B)		Analysis Dat	e: 5/9/200	6	SeqNo: 113	3447	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		48.28	1.30	49.93	0.5353	95.6	75	125	0	0		
Selenium		47.7	1.60	49.93	0.3774	94.8	75	125	0	0		
Sample ID L	_CS_1260	SampType: LCS	TestCo	ode: 6010B_S	Units: mg/Kg		Prep Date	e: 5/2/200	16	Run ID: ICF	P_1_060512A	١
Client ID: Z	77777	Batch ID: 1260	Test	No: SW6010B	(SW3050B)		Analysis Dat	e: 5/12/2 0	06	SeqNo: 113	3462	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver		47.91	0.350	49.93	0.1815	95.6	75	125	0	0		
Sample ID L		SampType: LCSD	TestCo	ode: 6010B_S	Units: mg/Kg		Prep Date	e: 5/2/200	6	Run ID: ICF	P_1_060509A	\
Client ID: Z	7777	-	- ,		(CMACCEOR)		Analysis Date	~: E/0/200	6	SegNo: 113	3212	
Cilettib. 2	7772	Batch ID: 1260	rest	No: SW6010B	(SW3050B)		Analysis Dati	e. 5/9/200	· ·	•		
Analyte		Batch ID: 1260			SPK Ref Val	%REC	•		RPD Ref Val	%RPD	RPDLimit	Qual
			PQL		,		•			%RPD 4.39		Qual
Analyte		Result	PQL 0.290	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		RPDLimit	Qual
Analyte Barium		Result 46.07	0.290 0.0968	SPK value 48.41	SPK Ref Val 0.07259	%REC	LowLimit 75	HighLimit 125	RPD Ref Val 48.14	4.39	RPDLimit	Qual

Souder, Miller & Associates

Work Order:

0604042

Project:

Largo Tank Yard- Near OWS

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_S

Sample ID Client ID:	LCSD_1260 ZZZZZ	SampType: Batch ID:			de: 6010B_S lo: SW6010B	Units: mg/Kg (SW3050B)		Prep Date Analysis Date	e: 5/2/200 e: 5/9/200		Run ID: ICF SeqNo: 11:	P_1_060509E	3
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic Selenium			45.78 44.24	1.26 1.55	48.41 48.41	0.5353 0.3774	93.5 90.6	75 75	125 125	48.28 47.7	5.31 7.53	20 20	
Sample ID Client ID:	LCSD_1260 ZZZZZ	SampType: Batch ID:			le: 6010B_S lo: SW6010B	Units: mg/Kg (SW3050B)		Prep Date Analysis Date			Run ID: ICF SeqNo: 11:	P_1_060512A 3463	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver			45.84	0.339	48.41	0.1815	94.3	75	125	47.91	4.42	20	
Sample ID Client ID:	0604036-002AMS ZZZZZ	SampType: Batch ID:			le: 6010B_S lo: SW6010B	Units: mg/Kg (SW3050B)		Prep Date Analysis Date			Run ID: ICF SeqNo: 113	P_1_060509A 3215	•
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium Chromium Lead			40.52 50.72 119	0.0840 0.714 0.714	42 42 42	0 11.66 82.72	96.5 93 86.4	75 75 75	125 125 125	0 0 0	0 0 0		
Sample ID Client ID:	0604036-002AMS ZZZZZ	SampType: Batch ID:			e: 6010B_S o: SW6010B	Units: mg/Kg (SW3050B)	3 *************	Prep Date Analysis Date	-,		Run ID: ICF SeqNo: 113		<u> </u>
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium			36.77	1.34	42	0	87.5	75	125	0	0	·	
Sample ID Client ID: Analyte	0604036-002AMS ZZZZZ	SampType: Batch ID:			e: 6010B_S o: SW6010B	Units: mg/Kg (SW3050B) SPK Ref Val	%REC	Prep Date	e: 5/12/20		Run ID: ICF SeqNo: 113 %RPD		Qual
Silver	·		40.73	0.294	42	0	97	75	125	0	0	TA DEIMI	——

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

Souder, Miller & Associates

Work Order:

0604042

Project:

Largo Tank Yard- Near OWS

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_S

Sample ID 0604036-002AMSD	SampType: MSD	TestCo	de: 6010B_S	Units: mg/Kg		Prep Dat	e: 5/2/20 0	Run ID: ICP_1_060509A			
Client ID: ZZZZZ	Batch ID: 1260	Test	No: SW6010B	(SW3050B)		Analysis Da	te: 5/9/20 0	16	SeqNo: 11	3216	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	243	0.251	41.87	192.8	120	75	125	219.1	10.3	20	
Cadmium	40.8	0.0837	41.87	0	97.5	75	125	40.52	0.695	20	
Chromium	51.69	0.712	41.87	11.66	95.6	75	125	50.72	1.89	20	
Lead	126.2	0.712	41.87	82.72	104	75	125	119	5.89	20	
Sample ID 0604036-002AMSD	SampType: MSD	TestCode: 6010B_S		Units: mg/Kg	Prep Date: 5/2/2006			6	Run ID: ICI	P_1_060509E	3
Client ID: ZZZZZ	Batch ID: 1260	Test	No: SW6010B	(SW3050B)		Analysis Da	te: 5/9/20 0	16	SeqNo: 11	3451	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	36.02	1.34	41.87	0	86	75	125	36.77	2.07	20	
Sample ID 0604036-002AMSD	SampType: MSD	TestCod	de: 6010B_S	Units: mg/Kg		Prep Dat	e: 5/2/200	6	Run ID: ICI	 P_1_060512 <i>A</i>	4
Client ID: ZZZZZ	Batch ID: 1260	Test ^	lo: SW6010B	(SW3050B)		Analysis Dat	e: 5/12/2 0	06	SeqNo: 113467		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	40.34	0.293	41.87	0	96.4	75	125	40.73	0.945	20	

Souder, Miller & Associates

Work Order:

0604042

Project:

Largo Tank Yard- Near OWS

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DO_S

											
Sample ID MBLK_060508A	SampType: MBLK	TestCo	de: 8015DO_ S	S Units: mg/Kg		Prep Dat	te: 5/1/20 0	06	Run ID: GC	-2_060508A	
Client ID: ZZZZZ	Batch ID: R8094	Test/	lo: SW8015 B			Analysis Dat	te: 5/8/200	16	SeqNo: 113	3229	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C22	ND	25.0		·							
T/R Hydrocarbons: C22-C36	ND	50.0									
Surr: o-Terphenyl	27.65	0	40	0	69.1	46	148	0	0		
Sample ID LCS_060508A	SampType: LCS	TestCod	de: 8015DO_9	S Units: mg/Kg		Prep Dat	te: 5/1/20 0	16	Run ID: GC	-2_060508A	
Client ID: ZZZZZ	Batch ID: R8094	TestN	lo: SW8015B			Analysis Dat	te: 5/8/20 0	06	SeqNo: 11:	3231	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C22	489.4	25.0	501	0	97.7	70	130	0	0		
T/R Hydrocarbons: C22-C36	446	50.0	502	0	88.8	70	130	0	0		
Surr: o-Terphenyl	31.6	0	40	0	79	46	148	0	0		
Sample ID 0604042-001BPS	SampType: MS	TestCod	de: 8015DO_ S	S Units: mg/Kg		Prep Dat	te:		Run ID: GC	-2_060508A	
Client ID: Largo Tank I	Batch ID: R8094	TestN	No: SW8015B			Analysis Dat	te: 5/8/20 0	06	SeqNo: 11:	3237	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C22	566.7	25.0	602	0	94.1	70	130	0	0		
T/R Hydrocarbons: C22-C36	487.8	50.0	523	0	93.3	70	130	0	0		
Surr: o-Terphenyl	21.62	0	21	0	103	46	148	0	0		
Sample ID 0604042-001BD	SampType: DUP	TestCod	de: 8015DO_ S	Units: mg/Kg		Prep Dat	e: 5/1/200	6	Run ID: GC	-2_060508A	
Client ID: Largo Tank I	Batch ID: R8094	TestN	lo: SW8015B			Analysis Dat	te: 5/8/20 0	6	SeqNo: 113	3235	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C22	10710	500	0	0	0	0	0	9030	17.0	20	
T/R Hydrocarbons: C10-C22 T/R Hydrocarbons: C22-C36	10710 5714	500 1000	0 0	0 0	0	0	0	9030 5889	17.0 3.01	20 20	
•			_	-	•	=	=				s

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

Souder, Miller & Associates

Work Order:

0604042

Project:

Largo Tank Yard- Near OWS

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_S

Sample ID MBLK_1259	SampType:	MBLK	TestCode: 8015GRO_S Units: mg/Kg			Prep Dat	e: 5/1/20 0	6	Run ID: GC-1B_060502A			
Client ID: ZZZZZ	Batch ID:	1259	TestN	lo: SW8015B	(SW5035A)		Analysis Dat	e: 5/2/20 0	6	SeqNo: 113136		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10		0.3733	0.500									J
Surr: Trifluorotoluene		0.3968	0	0.5	0	79.4	70	130	0	0		
Sample ID LCS_1259	SampType:	LCS	TestCod	le: 8015GRO_	S Units: mg/Kg		Prep Dat	e: 5/1/200	16	Run ID: GC	-1B_060502	Α
Client ID: ZZZZZ	Batch ID:	1259	TestN	lo: SW8015B	(SW5035A)		Analysis Dat	e: 5/2/20 0	06	SeqNo: 11:	3137	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10		5.523	0.500	5	0.3733	103	80	120	0	0		
Surr: Trifluorotoluene		0.4325	0	0.5	0	86.5	70	130	0	0		
Sample ID 0604042-001BMSD	SampType:	MSD	TestCoo	de: 8015GRO _	S Units: mg/Kg		Prep Dat	e:		Run ID: GC	-1B_060502	 A
Client ID: Largo Tank I	Batch ID:	1259	TestN	lo: SW8015B	(SW5035A)		Analysis Dat	te: 5/2/20 0)6	SeqNo: 11:	3140	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10		196.8	2.50	45	164.4	72.2	70	130	0	0		
Surr: Trifluorotoluene		2.082	0	2.5	0	83.3	70	130	0	0		

Souder, Miller & Associates

Work Order:

0604042

Project:

Largo Tank Yard- Near OWS

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID	MB_1263	SampType:	MBLK	TestCod	de: HG_CTS	Units: mg/Kg	Prep Date: 5/2		: 5/2/2006	5/2/2006		Run ID: AA_060502A		
Client ID:	_	Batch ID:	1263		No: SW7471	(SW7471)		Analysis Date	: 5/2/2006	;	SeqNo: 113	3045		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit F	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury			< 0.199	0.199										
Sample ID	LCS_1263	SampType:	LCS	TestCod	de: HG_CTS	Units: mg/Kg		Prep Date	: 5/2/2006	 }	Run ID: AA	_060502A		
Client ID:	<u> </u>	Batch ID:	1263	Test	No: SW7471	(SW7471)		Analysis Date	: 5/2/2006	3	SeqNo: 11:	3052		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury			0.9564	0.199	0.9962	0	96	70	130	0	0			
Sample ID	LCSD_1263	SampType:	LCSD	TestCo	de: HG_CTS	Units: mg/Kg		Prep Date	: 5/2/2006		Run ID: AA	_060502A		
Client ID:	ZZZZZ	Batch ID:	1263	Test	No: SW7471	(SW7471)		Analysis Date	: 5/2/2006	3	SeqNo: 11:	3053		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury			1.069	0.200	0.999	0	107	70	130	0.9564	11,1	20		
Sample ID	0604042-001BMS	SampType:	MS	TestCo	de: HG_CTS	Units: mg/Kg		Prep Date	: 5/2/2006		Run ID: AA	_060502A		
Client ID:	Largo Tank I	Batch ID:	1263	Test	No: SW7471	(SW7471)		Analysis Date	: 5/2/2006	6	SeqNo: 11	3055		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury			0.8216	0.200	1.002	0	82	70	130	0	0			
Sample ID	0604042-001BMSD	SampType:	MSD	TestCo	de: HG_CTS	Units: mg/Kg		Prep Date	: 5/2/2006	3	Run ID: AA	_060502A		
Client ID:	Largo Tank I	Batch ID:	1263	Test	No: SW7471	(SW7471)		Analysis Date	: 5/2/200 0	6	SeqNo: 11	3056		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury		-	0.8904	0.200	1	. 0	89	70	130	0.8216	8.03	20		

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CHA -OF-C IS 11 Y RECOR 1

Page 1 of 1

612 E. Murray Drive Farmington, NM 87401 (505) 327-1072

Sub	con	itrac	tor
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Hall Environmental Analysis Laboratory

TEL:

(505) 345-3975

4901 Hawkins NE Suite D

FAX:

(505) 345-4107

Albuquerque, NM 87109

Acct #:

01-May-06

					Request	Requested Tests				
Sample ID	Matrix	Collection Date	Bottle Type	SW8260B						
0604042-001A	Soil	4/28/2006 4:30:00 PM	40ZG	1	 					

Comments:

Please analyze 1 (one) soil sample for 8260 full list. Thank you.

1 1 010	Date/Time	Date/Time
Relinquished by:	5/1/06 1/25 Received by:	
Relinquished by:	Received by:	

ilná bá

Sample Receipt Checklist

Client Name: SMA1005			Date and Tin	ne Received:	4/28/2006 5:10:00 PM
Work Order Number: 0604042			Received by:	jem	
Checklist completed by: Moore	4/28)	106	Reviewed by:	· Yk	5/1/06
Matrix:	Carrier name:	Walter Gage		uncap	, , , , , , , , , , , , , , , , , , , ,
Shipping container/cooler in good condition?		Yes 🗹	No 🗆	Not Present	
Custody seals intact on shippping container/co	oler?	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	d 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 🗆		1.00
Container/Temp Blank temperature in complian	nce?	Yes 🗹	No □ 13	5° min	within the of
Water - VOA vials have zero headspace?	No VOA vials subn	nitted 🗹	Yes 🗌	No 🗆	Sampley
Water - pH acceptable upon receipt?		Yes 🗌	No ☑ S	oil	•
	Adjusted?	Ch	ecked by:		
Any No and/or NA (not applicable) response m	ust be detailed in the c	omments section	n below. 		
Client contacted:	Date contacted:		Perso	on contacted:	
Contacted by:	Regarding:				
Comments:					
Corrective Action:					
The state of the s					
	·				Andreas and the second and the secon



COVER LETTER

Wednesday, May 10, 2006

Judy Moore iina ba, Ltd 612 E. Murray Drive Farmington, NM 87401

TEL: (505) 327-1072 FAX (505) 327-1496

RE: 0604042

Dear Judy Moore:

Order No.: 0605006

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/1/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

AZ license # AZ0682 ORELAP Lab # NM100001



Date: 10-May-06

CLIENT: iina ba, Ltd Lab Order: 0605006

iina ba, Ltd Client Sample ID: 0604042-001 A 0605006 Collection Date: 4/28/2006 4:30

Project: 0604042 Lab ID: 0605006-01 Collection Date: 4/28/2006 4:30:00 PM

Date Received: 5/1/2006 Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: KTI
Benzene	ND	0.50	mg/Kg	10	5/9/2006
Toluene	ND	0.50	mg/Kg	10	5/9/2006
Ethylbenzene	ND	0.50	mg/Kg	10	5/9/2006
Methyl tert-bulyl ether (MTBE)	ND	0.50	mg/i/g	10	5/9/2006
1,2,4-Trimethylbenzene	ND	0.50	mg/Kg	10	5/9/2006
1,3,5-Trimethylbenzene	ND	0.50	mg/Kg	10	5/9/2006
1,2-Dichloroethane (EDC)	DN	0.50	mg/Kg	10	5/9/2006
1,2-Dibromoethane (EDB)	ND	0.50	mg/Kg	10	5/9/2006
Naphthalene	ПN	1.0	mg/Kg	10	5/9/2006
1-Methylnaphthalene	2.0	2.0	mg/Kg	10	5/9/2006
2-Methylnaphthalene	ND	2.0	mg/Kg	10	5/9/2006
Acetone	ИD	7.5	mg/Kg	10	5/9/2006
Bromobenzene	ПN	0.50	mg/Kg	10	5/9/2006
Bromochloromethane	ND	0.50	mg/Kg	10	5/9/2006
Bromodichioromethane	dи	0.50	mg/Kg	10	5/9/2006
Brómoform	ND	0.50	mg/Kg	10	5/9/2006
Bromomethane	ND	1.0	mg/Kg	10	5/9/2006
2-Bulanone	ND	5.0	rng/Kg	10	5/9/2006
Carbon disulfide	ND	5.0	mg/Kg	10	5/9/2006
Carbon tetrachloride	ND	1.0	mg/Kg	10	5/9/2006
Chlorobenzene	ND	0.50	rng/Kg	10	5/9/2006
Chlorosthane	ND	1.0	mg/Kg	10	5/9/2008
Chloroform	ND	0.50	mg/Kg	10	5/9/2006
Chloromethane	ND	0.50	mg/Kg	10	5/9/2006
2-Chlorololuene	ND	0.50	mg/Kg	10	5/9/2006
4-Chiorololuene	ND	0.50	mg/Kg	10	5/9/2006
cis-1,2-DCE	ND	0.50	mg/Kg	10	5/9/2006
cis-1,3-Dichloropropene	ND	0.50	mg/Kg	10	5/9/2006
1,2-Dibromo-3-chloropropane	ND	1.0	mg/Kg	10	5/9/2006
Dibromochloromethane	ND	0.50	mg/Kg	10	5/9/2006
Dibromomelhane	ND	1.0	mg/Kg	10	5/9/2006
1,2-Olchlorobenzene	ND	0.50	mg/Kg	10	5/9/2006
1,3-Dichlorobenzene	ND	0.50	mg/Kg	10	5/9/2006
1,4-Dichlorobenzene	ND	0.50	mg/Kg	10	5/9/2006
Dichlorodifluoromethane	ND	0.50	mg/Kg	10	5/9/2008
1,1-Dichloroethane	ND	1.0	mg/Kg	10	5/9/2006
1,1-Dichloroethene	ND	0.50	mg/Kg	10	5/9/2006
1,2-Dichloropropane	מא	0.50	mg/Kg	10	5/9/2006
1.3-Dichloropropane	ND	0.50	mg/Kg	10	5/9/2006
2,2-Dichloropropane	ND	1.0	mg/Kg	10	5/9/2006

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT: iina ba, Ltd

Lab Order:

0605006

Project: 0604042 **Lab 1D:** 0605006-01

Date: 10-May-06

Client Sample ID: 0604042-001A

Collection Date: 4/28/2006 4:30:00 PM

Date Received: 5/1/2006 Matrix: SOIL

Analyses	Result	PΩI	Qual	Ilnite	DF	Date Analyzed
·	***************************************		~····		~~	zaic minijacu
EPA METHOD 8260B: VOLATILES						Analyst: KTN
1.1-Dichloropropene	ND	0.50		mg/Kg	10	5/9/2006
Hexachlorobuladiene	ND	1.0		mg/Kg	10	5/9/2006
2-Hexanone	ND	5.0		mg/Kg	10	5/9/2006
isopropylbenzene	ND	0.50		mg/Kg	10	5/9/2006
4-Isopropylloluene	ND	0.50		mg/Kg	10	5/9/2006
4-Melhyl-2-pentanone	ND	5.0		mg/Kg	10	5/9/2006
Methylene chloride	ND	1.5		mg/Kg	10	5/9/2006
n-Bulylbenzene	0.53	0.50		mg/Kg	10	5/9/2006
n-Propyibenzene	ND	0.50		mg/Kg	10	5/9/2006
sec-Bulylbenzene	0.50	0.50		mg/Kg	10	5/9/2006
Styrene	ND	0.50		mg/Kg	10	5/9/2006
lert-Butylbenzene	ND	0.50		mg/Kg	10	5/9/2006
1,1,1,2-Tetrachloroethane	ND	0.50		mg/Kg	10	5/9/2006
1,1,2,2-Tetrachloroethane	ND	0.50		mg/Kg	10	5/9/2006
Telrachloroethene (PCE)	ND	0.50		mg/Kg	10	5/9/2006
irans-1,2-DCE	ND	0.50		mg/Kg	10	5/9/2006
Irans-1,3-Dichloropropene	ND	0.50		mg/Kg	10	5/9/2006
1,2,3-Trichlorobenzene	ND	1.0		mg/Kg	10	5/9/2006
1,2,4-Trichlorobenzene	ND	0.50		mg/Kg	10	5/9/2006
1,1,1-Trichloroethane	МD	0.50		mg/Kg	10	5/9/2006
1,1,2-Trichloroethane	ND	0.50		mg/Kg	10	5/9/2006
Trichloroethene (TCE)	ND	0.50		mg/Kg	10	5/9/2006
Trichlorofluoromethane	ND	0.50		mg/Kg	10	5/9/2006
1,2,3-Trichtoropropane	ND	1.0		mg/Kg	10	5/9/2006
Vinyl chloride	ND	0.50		mg/Kg	10	5/9/2006
Xylenes, Total	ND	0.50		mg/Kg	10	5/9/2006
Surr: 1,2-Dichloroethane-d4	110	74.2-135		%REC	10	5/9/2006
Surr. 4-Bromofluorobenzene	100	75.2-127		%REC	10	5/9/2006
Surr. Dibromolluoromethane	101	76.9-138		%REC	10	5/9/2006
Surr: Toluene-d8	96.4	74-119		%REC	10	5/9/2006

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

II Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Date: 10-May-06

QA/QC SUMMARY REPORT

Client:

iina ba, Ltd

Project: 0604042

Work Order:

0605006

Analyle	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual]
Method: SW8260B	B-0					•		Bat	ch (D:	10305
Sample ID: mb-10305		MBLK						Analysis	Date:	5/9/2006
Benzene	ND	mg/Kg	0.050							
Toluene	ND	mg/Kg	0.050							
Elhylbenzene	ND	mg/Kg	0.050							
Melhyl terl-bulyl ether (MTBE)	ND	mg/Kg	0.050							
1.2.4-Trimethylbenzene	ND	mg/Kg	0.050							
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050							
1,2-Dichloroethane (EDC)	ND	nıg/Kg	0.050							
1.2-Dibromoethane (EDB)	ND	mg/Kg	0.050							
Naphthalene	ND	mg/Kg	0.10							
1-Methylnaphthalene	ND	mg/Kg	0.20							
2-Methylnaphthalene	ND	mg/Kg	0.20							
Acetone	ND	mg/Kg	0.75							
Bromobenzene	ND	mg/Kg	0.050							
Bromochloromethane	ND	mg/Kg	0.050							
Bromodichioromethane	ND	mg/Kg	0.050							
Bromoform	ND	mg/Kg	0.050							
Bromomethane	ND	mg/Kg	0.10							
2-Butanone	ND	mg/Kg	0.50							
Carbon disulfide	ND	mg/Kg	0.50							
Carbon tetrachloride	ND	mg/Kg	0.10							
Chlorobenzene	ND	mg/Kg	0.050							
Chloroethane	ND	mg/Kg	0.10							
Chloroform	ND	тд/Кд	0.050							
Chloromelhane	ND	mg/Kg	0.050							
	ND	mg/Kg	0.050							
2-Chlorotoluene	ND	mg/Kg	0.050							
4-Chlorololuene	ND	mg/Kg	0.050							
cis-1,2-DCE			0.050							
cis-1,3-Dichloropropene	ND	mg/Kg	0.10							
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.050							
Dibromochioromethane Dibromomethane	ND	mg/Kg mg/Kg	0.10							
	ND ND	mg/Kg	0.050							
1,2-Dichlorobenzene 1,3-Dichlorobenzene	ND	mg/Kg	0.050							
1,4-Dichlorobenzene	ND	mg/Kg	0.050							
Dichlorodifluoromethane	ND	mg/Kg	0.050							
1,1-Dichloroelhane	ND	mg/Kg	0.10							
1,1-Dichloroethene	ND	mg/Kg	0.050							
1,2-Dichloropropane	ND	mg/Kg	0.050							
1,3-Dichloropropane	ND	mg/Kg	0.050							
2,2-Dichloropropane	ND	mg/Kg	0.10							
	ND	mg/Kg	0.050							
1,1-Dichloropropene			0.030							
Hexachlorobutadiene	ND	mg/Kg mg/Kg	0.10							
2-Hexanone	ND	mg/kg								
Isopropylbenzene	ND	mg/Kg	0.050							

Qualifiers:

Page 1

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spi' 3 7 5 every outside accepted recovery limits

Date: 10-May-06

QA/QC SUMMARY REPORT

Client:

iina ba, Ltd

Project: 0604042 Work Order: 0605006

Analyte	Result	Units	POL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit Qual	
Method: SW8260B	FOR PERSON AND MICH. THE TO A					***************************************		Balch ID:	10305
Sample ID: mb-10305		MBLK						Analysis Date:	5/9/2006
4-Isopropylloluene	ND	mg/Kg	0.050						
4-Methyl-2-pentarione	ND	mg/kg	0.50						
Melhylene chloride	ND	mg/Kg	0.15						
n-Butylbenzene	ND	mg/Kg	0.050						
n-Propylbenzene	ND	mg/Kg	0.050						
sec-Butylbenzene	ND	mg/Kg	0.050						
Slyrene	ND	mg/Kg	0.050						
tert-Butylbenzene	ND	mg/Kg	0.050						
1,1,1,2-Telrachloroethane	ND	mg/Kg	0.050						
1,1,2,2-Telrachloroethane	ND	mg/Kg	0.050						
Tetrachloroethene (PCE)	ND	mg/Kg	0.050			-			
trans-1,2-DCE	ND	mg/Kg	0.050						
Irans-1,3-Dichloropropene	ND	mg/Kg	0.050						
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10						
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050						
1,1,1-Trichloroethane	ND	mg/Kg	0.050						
1,1,2-Trichloroelhane	ND	mg/Kg	0.050						
Trichloroethene (TCE)	ND	mg/Kg	0.050						
Trichlorofluoromethane	ND	mg/Kg	0.050						
1,2,3-Trichloropropane	ND	mg/Kg	0.10						
Vinyl chloride	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.050						
Sample ID: lcs-10305		LCS						Analysis Dale:	5/9/2006
Benzene	0.9153	mg/Kg	0.050	91.5	80.8	132			
Toluene	0.9829	mg/Kg	0.050	98.3	72.1	126			
Chlorobenzene	1.078	mg/Kg	0.050	108	75.4	140			
1,1-Dichloroethene	0.9721	mg/Kg	0.050	97.2	59	147			
Trichloroethene (TCE)	0.9665	mg/Kg	0.050	96.6	77.2	123			
Sample ID: Icsd-10305		LCSD						Analysis Date:	5/9/2006
Benzene	0.9004	mg/Kg	0.050	90.0	80.8	132	1.64	20	
Toluene	0.9877	mg/Kg	0.050	98.8	72.1	126	0.487	20	
Chlorobenzene	1.111	mg/Kg	0.050	111	75.4	140	2.96	20	
1,1-Dichlorgethene	0.9854	mg/Kg	0.050	98.5	59	147	1.36	20	
Trichloroethene (TCE)	0.9299	mg/Kg	0.050	93.0	77.2	123	3.86	20	

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Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Spil 4 / 5 very outside accepted recovery limits

Sample Receipt Checklist Client Name IINA Date and Time Received: 5/1/2006 Work Order Number 0605006 Received by GLS Checklist completed by Greyliound Matrix Carrier name No 🗆 Yes 🗸 Not Present Shipping container/cooler in good condition? No [] Yes 🗹 Not Present Not Shipped Custody seals intact on shipping container/cooler? Yes 🗆 No 🗆 \square N/A Custody seals intact on sample bottles? No 🗀 Yes 🗹 Chain of custody present? No 🗆 Yes 🗹 Chain of custody signed when relinquished and received? No 🗆 Yes 🗸 Chain of custody agrees with sample labels? No 🗆 Yes 🗹 Samples in proper container/bottle? No 🗆 Yes 🗹 Sample containers intact? Yes 🗹 No C Sufficient sample volume for indicated test? No 🗆 Yes 🗹 All samples received within holding time? Yes 🗀 No 🗆 No VOA vials submitted Water - VOA vials have zero headspace? N/A 🗹 Yes 🛘 No 🗆 Water - pH acceptable upon receipt? Container/Temp Blank temperature? 4° C ± 2 Acceptable 2° If given sufficient time to cool. COMMENTS: Person contacted Client contacted Date contacted: Contacted by: Regarding Comments: Corrective Action

	Aind (for life's sake)	Í <i>bá</i> 612 E. Phone	■ . Murray Dr. • P.O. Box 2: :: (505) 327-1072 • Fax: (606 • Fa	AIN C				REC 1/28						Pag	e	5243 or/	
	Report to:	Wa	alter Gage			***************************************		T	PON	lo.:		····		J	ob No.:			
≒ ë	Company:	Sa	uder Miller	1 A	ussa,			d ë	Name	e:								
REPORT RESULTS TO	Address: LIA E. Murray Dr						SEND NVOICE TO	Com	pany:									
E SE	Company: Souder Miller + Assa. Address: 612 E. Murray Dr City: Farmington NM 87401							122 8	Addre						****			
	Phone: 325-5667 Fax: 327-1446 Email:							City:	·									
1 24-4	furnaround Time: Sample Integrity Subcontract 10 days (normal) Intact Yes 24-48 hours (100%) On loe No								ļ.,	34	<u>. 7</u>	37		sis Re	equest	ted	,	
Sampl	ing Location:	Larg	o Tank Yard	y		wc	5	NUMBER OF CONTAINERS:	7 Tags	8015-618.			Solument S	;/				
	Sample Identification			Sa: Date	mple Time	Matrix	Pres.	CON	**	80/5		8					Lab ID	
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	Relinquished by: Date/Time: 4 28 06 1710			, , , , , , , , , , , , , , , , , , ,					Date/Time: 4/28/06 17									
			Received by: Date/Time:															
	Relinquished by: Date/Time:			··-	Receiv	ea by:						Da	te/Time	<u> </u>				

<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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

Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEPT SOLID W
----------------------------------------

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: X Non-Exempt:	4. Generator: M&G Drilling
Verbal Approval Received: Yes No: X	5. Originating Site: Schlosser # 16
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: L&L Trucking
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o Box 2043 Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR) SE, SE Sect TY0-S27N-R11N	·
<ul> <li>9. Circle One:         <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 claapproved</li> </ul> </li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only tho	se consigned for transport.
BRIEF DESCRIPTION OF MATERIAL: Motor Oil Leaks on soil from Pump Jack	s and Compressors
Estimated Volume5yds Known Volume (to be entered by the oper	ator at the end of the haul)
SIGNATURE Waste Management Facility Authorized Agent  Waste Management Facility Authorized Agent	ager DATE: <u>\$\17\06</u>
TYPE OR PRINT NAME: <u>JOEL OWENS</u> T	ELEPHONE NO. <u>(505) 632-1782</u>
E-MAIL ADDRESS: <u>itowens@industrialecosystems.com</u>	
(This space for State Use)  APPROVED BY: Builon Tenell FITLE: Enviro 15	ρες DATE: 5/17/ου
APPROVED BY: TITLE:	DATTE: Set
ATT WATER	C. BOARDENOUSK - MONTOS POLICIO (1900) AND CARROLLE SERVICE (1907) AND CARROLLE SERVIC







## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery
Director
Oil Conservation Division

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address   2. Destination Name:   P.O. Box 5940   H81 CR 3150   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003   Aztec, NM 87410   Phone # 505-632-1782   Aztec, NM 87410   Phone # 505-632-1782   Aztec, NM 87410   Phone # 505-632-1782   Phone Contact: # 505-330-7107   Phone Contac				
P.O. Box 5940 Farmington, NM 87499  Aztec, NM 87410 Phone # 505-632-1782 Fax No# 505-334-1003  3. Originating Site (name): Location of the Waste (Street address &/or ULSTR): SE, SE Sec. YT0S27N, R11N  Schlosser # 16 UL- S- T- R- or attach list Attach list of originating sites as appropriate  4. Source and Description of Waste Motor oil leaks on soil from pump vacks and compressors  1. David Hinson representative for: Print Name  M&G Drilling do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)  EXEMPT oilfield waste Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  For NON-EXEMPT waste the following documentation is attached (check appropriate items): MSDS Information Other (description Chain of Custody  This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.		1. Generator Name and Address	2. <u>Destination Name</u> :	
Farmington, NM 87499    Aztec, NM 87410   Phone # 505-632-1782   Fax No# 505-334-1003     3. Originating Site (name):				lustrial Ecosystems Inc.
Phone # 505-632-1782   Fax No# 505-334-1003     3. Originating Site (name):   Location of the Waste (Street address &/or ULSTR):   SE, SE Sec. YTOS27N, R11N     Schlosser # 16   UL- S- T- R- or attach list     Attach list of originating sites as appropriate     4. Source and Description of Waste     Motor oil leaks on soil from pump vacks and compressors     David Hinson		P.O. Box 5940	#81 CR 3150	
3. Originating Site (name):  Schlosser # 16  Schlosser # 16  Lut- S- T- R- or attach list  Attach list of originating sites as appropriate  4. Source and Description of Waste  Motor oil leaks on soil from pump vacks and compressors  1. David Hinson representative for:  Print Name  M&G Drilling do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)  EXEMPT oilfield waste  Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  For NON-EXEMPT waste the following documentation is attached (check appropriate items):  MSDS Information Other (description  RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.		Farmington, NM 87499	Aztec, NM 87410	
Schlosser # 16  Schlosser # 16  Street Address:  Attach list of originating sites as appropriate  4. Source and Description of Waste  Motor oil leaks on soil from pump vacks and compressors  1. David Hinson			Phone # 505-632-1782	Fax No# 505-334-1003
Schlosser # 16  Schlosser # 16  Street Address:  Attach list of originating sites as appropriate  4. Source and Description of Waste  Motor oil leaks on soil from pump vacks and compressors  1. David Hinson		3. Originating Site (name):	Location of the Waste (St	reet address &/or ULSTR):
Schlosser # 16    Street Address:	•			
Attach list of originating sites as appropriate  4. Source and Description of Waste  Motor oil leaks on soil from pump vacks and compressors  1,		Schlosser # 16		
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4. Source and Description of Waste Motor oil leaks on soil from pump vacks and compressors  1,		Attach list of originating sites as appropriate		
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Print Name		Witter on leaks on son from pump vacks and ec	inpressors	
Print Name				
Print Name				
Print Name				
Print Name	ĭ	David Hinson		representative for:
M&G Drilling	*,			representative ter.
(RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)  EXEMPT oilfield waste  X_NON-EXEMPT oilfield waste which is non-hazardous by characteristic  Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  For NON-EXEMPT waste the following documentation is attached (check appropriate items): MSDS InformationOther (descriptionRCRA Hazardous Waste AnalysisChain of Custody  This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.		2		
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EXEMPT oilfield waste	(RCR	A) and Environmental Protection Agency's July 19	88 regulatory determination, the above desc	cribed waste is: (Check
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MSDS InformationOther (descriptionRCRA Hazardous Waste AnalysisChain of Custody  This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.		•		
RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.	For NO	<b>ON-EXEMPT</b> waste the following documentation is	is attached (check appropriate items):	
Chain of Custody  This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.		MSDS Information	Other (description	
This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.		RCRA Hazardous Waste Analysis	-	
NMAC 3.1 subpart 1403.C and D.		Chain of Custody		
NMAC 3.1 subpart 1403.C and D.		<del></del>		
NMAC 3.1 subpart 1403.C and D.	This w	aste is in compliance with Regulated Levels of N	laturally Occurring Radioactive Material	(NORM) pursuant to 20
			, <b>8</b>	() parameter 20
Name (Original Signature): Sauch A-risac Phone Contact: 505-330-7107  Title: General Munger P.O#/Pay key No:  Date: 5-17-06				
Title: <u>General Mungeer</u> Date: <u>5-17-06</u> P.O#/Pay key No:	Name	(Original Signature)	Dhone Contact: 50	ワビュスシュブルブ
Title: <u>General Munyger</u> Date: <u>5-17-06</u> P.O# / Pay key No:	Name	(Original Signature).	Filone Contact: 30	5-50-1701
Date: 5-17-06	Title	General Minister DV	P O# / Pay key No.	
Date: 5-17-06	ritie.		1.0# / Fay Key No:	
	Data	5-17-06		
	Date.			

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 Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ATTROVAL TO ACCE	I SOLID WASTE
1. RCRA Exempt: X Non-Exempt:	4. Generator: M&G Drilling
Verbal Approval Received: Yes No: X	5. Originating Site: Schlosser # 95
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: L&L Trucking
3. Address of Facility Operator:  JFJ Landfarm  C/o. Industrial Ecosystems Inc.  P.o Box 2043  Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR) SW, SW UL-MS-33T-27NR-11W	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  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 c approved  All transporters must certify the wastes delivered are only the BRIEF DESCRIPTION OF MATERIAL: Motor Oil Leaks on soil from Pump Jack  Estimated Volume5yds Known Volume (to be entered by the ope	necessary chemical analysis to PROVE the lassified hazardous by listing or testing will be ose consigned for transport.  ks and Compressors
SIGNATURE Waste Management Facility Authorized Agent  TITLE: Operations Management Facility Authorized Agent	nager DATE: <u>5 / 1/2 / 06</u>
TYPE OR PRINT NAME: <u>JOEL OWENS</u>	TELEPHONE NO. <u>(505)</u> 632-1782
E-MAIL ADDRESS: jtowens@industrialecosystems.com	
(This space for State Use)	
APPROVED BY:	DATE:
APPROVED BY: TITLE:	DATE:





## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery
Director
Oil Conservation Division

#### CERTIFICATE OF WASTE STATUS

CENTIL	
1. Generator Name and Address  MEGDI, Hing POBOX 5940  Farmington NM S7499  3. Originating Site (name): Schiosser #95  5chiosser #16  Attach list of originating sites as appropriate to the state of th	Location of the Waste (Street address &/or ULSTR):  SW SW L  UL-M S-33 T-27N R-11W or attach list  Street Address:
Print Name  MBG Drilling  Act (RCRA) and Environmental Protection Agency's (Check appropriate classification)	
EXEMPT oilfield waste	NON-EXEMPT oilfield waste which is non-hazardous by characteristic Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	tion is attached (check appropriate items):Other (description
This waste is in compliance with Regulated Levels NMAC 3.1 subpart 1403.C and D.	of Naturally Occurring Radioactive Material (NORM) pursuant to 20
Name (Original Signature): Danel Hm  Fitle: (FEN E/g/ Mangger	Phone Contact: 505-330-7107
Date: 5-1-06	P.O#/Pay key No:

## ENVIROTECH LABS

May 4, 2006

Mr. Vince Scott M & G Drilling 3104 N Sullivan Ave Farmington, NM 87401

Phone: (505) 327-4573

Client No.: 04033-002

Dear Mr. Scott,

Enclosed are the analytical results for the soil samples collected from the location designated as "Schlosser 16 & 95". Two soil samples were collected by M & G Drilling personnel on 5/02/06, and received by the Envirotech laboratory on 5/02/06 for RCRA 8 List Metals.

The samples were documented on Envirotech Chain of Custody No. 15868 and assigned Laboratory Nos. 37003 (Schlosser 16) and 37004 (Schlosser 95) for tracking purposes.

The samples were analyzed on 5/03/06 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech**, **Inc**.

Mustur m Walter

Christine M. Walters

上aboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/burl.wpd



#### TRACE METAL ANALYSIS

Client:	M & G Drilling	Project #:	04033-002
Sample ID:	Schlosser 16	Date Reported:	05-03-06
Laboratory Number:	37003	Date Sampled:	05-02-06
Chain of Custody:	15868	Date Received:	<b>05-02-</b> 06
Sample Matrix:	Soil	Date Analyzed:	05 <b>-</b> 03-06
Preservative:	N/A	Date Digested:	05-02-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limlt (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.096	0.001	5.0
Barlum	24.09	0.001	100
Cadmium	0.009	0.001	1.0
Chromium	0.835	0.001	5.0
Lead	0.599	0.001	5,0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	0.008	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Schlosser 16 & 95 Clean Up Stock Pile.

Analyet

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#### TRACE METAL ANALYSIS

Client:	M & G Drilling	Project #:	04033-002
••	Schlosser 95	Date Reported:	05-03-06
Sample ID:	37004	Date Sampled:	05-02-06
Laboratory Number:	15868	Date Received:	05-02-06
Chain of Custody: Sample Matrix:	Soil	Date Analyzed:	05-03-06
Preservative:	N/A	Date Digested:	05-02 <b>-</b> 06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
		-	
Arsenic	0.095	0.001	5.0
Barium	10.53	0.001	100
Cadmium	0.039	0.001	1.0
Chromium	0.532	0.001	5.0
Lead	3.763	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	0.008	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Schlosser 16 & 95.

Mistry Walters Analyst

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## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client: Sample ID: Laboratory Number: Sample Matrix: Analysis Requested: Condition:	QA/QC 05-03 TM QA/AC 37003 Soil Total RCRA Metals N/A	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Digested:	QA/QC 05-03-06 N/A N/A 05-03-06 05-02-06
-------------------------------------------------------------------------------------	----------------------------------------------------------------------	--------------------------------------------------------------------------------------	---------------------------------------------------------

Blank & Duplicate	lietrument Blank (mg/L)	Method	//Octacii	on Sample	V Dupitat		Acceptance :
Arsenic	ND	ND	0.001	0.096	0.097	0.6%	0% - 30%
Barium	ND	ND	0.001	24.09	24.07	0.1%	0% - 30%
Cadmium	ND	ND	0.001	0.009	0.009	2.2%	0% - 30%
Chromium	ND	ND	0.001	0.835	0.846	1,3%	0% - 30%
Lead	ND	ND	0.001	0.599	0.600	0.2%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%

THE COLOR DISKS OF THE			Sapple	Recovery	Range
Arsenic	0.500	0.096	0.633	106.2%	80% - 120%
Barium	0.500	24.09	24.4	99.2%	80% - 120%
Cadmium	0.500	0.009	0.558	109.6%	80% - 120%
Chromium	0.500	0.835	1.307	97.9%	80% - 120%
Lead	0.500	0.599	1.06	96.5%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	ND	0.497	99.4%	80% - 120%
Silver	0.500	0.008	0.502	98.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B. Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for Sample 37003 - 37004 and 37006.

Review

## **CHAIN OF CUSTODY RECORD**

Client / Project Name	1.10	<b>~</b>													
Ollerit Moject Harris	MIGL	) 1   ling	Project Location  Schlosser 16 + 95			ANALYSIS / PARAMETERS									
Client / Project Name M\$G Drilling David Hinson			JCH1053E1 /6 + 75			<del></del>				_ <del></del>					
Sampler: David Hinson			Client No.		. ഉ	4 3		.			Remark	(S			
David Human	<b>ب</b>	:	04033-002		No. of ontainer	PLEA METAL		İ							
Sample No./ Sample Sample			Sample	No. of ·	REGA METAS			1							
Identification	Date	Time	Lab Number	Matrix		∞									
SCHLOSSER 16	5/2/06	12:46	37003	SUL	1	/				Cuts	an up	STO	CK		
Scucosser 93	5/2/06	12:37	37004	SOIL	1	/						PU	JĒ		
		:													
											_				
Relinquished by: (Signature)			Shone	Date Time Red 5-2-06 /,'508	eived by Kagnature)					Date 5-/2/			Time 3 5 0		
Relinquished by: (Signature)				<del></del>	eived by: (Signature)										
Delinevist at the Oissan	\			Boo	aired bro	/Cianotu	\	<del> </del>			<b></b>				
Relinquished by: (Signatur	e)		·	, net	eived by:	(Signatu	ne)		•	•		1			
FAX TO: VINCE SCOTT				ENVIROTECH INC.						Sample Receipt					
503-632-1876				The same that the same that the same to the same that the						Y	N	N/A			
				5796 U.S. Hi Farmington, New	-	-				Received Inta	ct 🗸				
				(505) 632					Cool - Ice/Blue	Ice					

MATERIAL SAFETY DATA SHEET Review Date: 06/04/2004

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Rotella® T Oil 30W

MSDS NUMBER: 60130E - 13 PRODUCT CODE(S): 54103

MANUFACTURER ADDRESS: SOPUS Products, P.O. Box 4427, Houston, TX. 77210-4427

TELEPHONE NUMBERS

Spill Information: (877) 242-7400 Health Information: (877) 504-9351

MSDS Assistance Number: (877) 276-7285

______

SECTION 2 PRODUCT/INGREDIENTS

_______

CAS# CONCENTRATION INGREDIENTS

Heavy Duty Motor Oil

Mixture 90 - 98.99 %weight Highly refined petroleum oils Mixture 1 - 2.99 %weight Proprietary Additives 2 inc Dialkyldithiophosphate

______

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance & Odor: Dark amber liquid. Slight Hydrocarbon Odor.

Health Hazards: No known immediate health hazards.

Physical Hazards: No known physical hazards. NFPA Rating (Health, Fire, Reactivity): 0, 1, 0

Hazard Rating: Least - 0 Slight - 1 Moderate - 2 High - 3

Extreme - 4

Inhalation:

Inhalation of vapors (generated at high temperatures only) or oil mist may cause mild irritation of the nose, throat, and respiratory tract.

Eye Irritation:

Lubricating oils are generally considered no more than minimally irritating to the eyes.

Skin Contact:

May cause slight irritation of the skin. If irritation occurs, a temporary burning sensation and minor redness and/or swelling may result. Other adverse effects not expected from brief skin contact.

Ingestion:

Lubricating oils are generally no more than slightly toxic if swallowed.

#### Other Health Effects:

The International Agency for Research on Cancer (IARC) has determined there is sufficient evidence for the carcinogenicity in experimental animals of used gasoline motor oils. Handling procedures and safety precautions in the MSDS should be followed to minimize exposure to the used product. Material may release hydrogen sulfide (H2S), a highly toxic and extremely flammable gas, when heated to 180 Degrees F or higher. H2S can cause irritation of the eyes and respiratory tract, headache, dizziness, nausea, vomitting, diarrhea, and pulmonary edema. The odor ("rotten egg") threshold is 0.02 ppm. Do not depend on sense of smell for warning; H2S rapidly deadens the sense of smell.

Signs and Symptoms:

Irritation as noted above.

Aggravated Medical Conditions:

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

For additional health information, refer to section 11.

SECTION 4 FIRST AID MEASURES

#### Inhalation:

If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

#### Skin:

Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

#### Eye:

Flush eyes with large amounts of water for at least 15 minutes. If redness, burning, blurred vision or swelling persist, transport to nearest medical facility for additional treatment.

#### Ingestion:

Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical attention. Have victim rinse mouth out with water, then drink sips of water to remove taste from mouth. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Note to Physician:

In general, emesis induction is unnecessary in high viscosity, low volatility products such as oils and greases.

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SECTION 5 FIRE FIGHTING MEASURES

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Flash Point [Method]: >400 °F/>204.44 °C [ Cleveland Open Cup]

#### Extinguishing Media:

This material is non-flammable. Material will float and can be re-ignited on surface of water. Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use a direct stream of water.

#### Fire Fighting Instructions:

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus. This material is non-flammable.

Unusual Fire Hazards:

Material may ignite when preheated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Protective Measures:

May burn although not readily ignitable.

Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.

#### Spill Management:

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

Place in container for proper disposal.

#### Reporting:

CERCLA: Product is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) petroleum exclusion. Releases to air, land, or water are not reportable under CERCLA (Superfund).

CWA: This product is an oil as defined under Section 311 of EPA's Clean Water Act (CWA). Spills into or leading to surface waters that cause a sheen must be reported to the National Response Center, 1-800-424-8802.

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SECTION 7 HANDLING AND STORAGE

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# Precautionary Measures:

Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles such as shoes or belts that cannot be decontaminated. Avoid heat, open flames, including pilot lights, and strong

oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Material may release hydrogen sulfide (H2S), a highly toxic and extremely flammable gas, when heated to 180 Degrees F or higher. H2S may collect in the headspace of the container.

#### Storage:

Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

#### Container Warnings:

Keep containers closed when not in use. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Oil mist, mineral ACGIH TLV TWA: 5 mg/m3 STEL: 10 mg/m3 Oil mist, mineral OSHA PEL TWA: 5 mg/m3

Hydrogen sulfide ACGIH - TLV TWA: 10 ppmm STEL: 15 ppmm

Hydrogen sulfide OSHA - PEL_IS TWA: 10 ppmm STEL: 15 ppmm

Hydrogen sulfide Elevated Temperatures > 180 Degrees F.

# EXPOSURE CONTROLS

Provide adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

#### PERSONAL PROTECTION

Personal protective equipment (PPE) selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Information on the selection of eye, skin and respiratory protection for use with this material is provided below.

#### Eye Protection:

Chemical Goggles, or Safety glasses with side shields

#### Skin Protection:

Use protective clothing which is chemically resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection(s) should take into account such factors as job task, type of exposure and durability requirements.

Published literature, test data and/or glove and clothing manufacturers indicate the best protection is provided by:

Neoprene, or Nitrile Rubber

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Types of respirator(s) to be considered in the selection process include: For Mist: Air Purifying, R or P style NIOSH approved respirator. For Vapors: Air Purifying, R or P style prefilter & organic cartridge. NIOSH approved respirator. Self-contained breathing apparatus for use in environments with unknown concentrations or emergency situations.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Dark amber liquid. Slight Hydrocarbon Odor.

Substance Chemical Family: Lubricants

Dark amber liquid. Appearance:

Flash Point: > 400 °F [Cleveland Open Cup]

Physical State: Liquid

Pour Point: -40 °F - 10 °F

Specific Gravity: 0.873

Viscosity: 38 cSt - 210 cSt @ 40 °C

SECTION 10 REACTIVITY AND STABILITY

Stability:

Material is stable under normal conditions.

Conditions to Avoid:

Avoid heat and open flames.

Materials to Avoid:

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products:

Thermal decomposition products are highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases will evolve when this material undergoes pyrolysis or combustion. Carbon Monoxide, Carbon Dioxide, Hydrogen Sulfide, Nitrogen Oxidesand other unidentified organic compounds may be formed upon combustion.

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SECTION 11 TOXICOLOGICAL INFORMATION

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Acute Toxicity

Dermal LD50 >5.0 g/kg(Rabbit) OSHA: Non-Toxic Based on components(s) Oral LD50 >5.0 g/kg(Rat) OSHA: Non-Toxic Based on components(s)

Carcinogenicity Classification Heavy Duty Motor Oil

NTP: No IARC: Not Reviewed ACGIH: No OSHA: No

Sensitization

Contact with skin may cause allergic skin reaction.

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SECTION 12 ECOLOGICAL INFORMATION

Environmental Impact Summary:

There is no ecological data available for this product. However, this product is an oil. It is persistent and does not readily biodegrade. However, it does not bioaccumulate.

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SECTION 13 DISPOSAL CONSIDERATIONS

RCRA Information:

Under RCRA, it is the responsibility of the user of the material to determine, at the time of the disposal, whether the material meets RCRA criteria for hazardous waste. This is because material uses, transformations, mixtures, processes, etc. may affect the classification. Refer to the latest EPA, state and local regulations regarding proper disposal.

SECTION 14 TRANSPORT INFORMATION

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US Department of Transportation Classification
This material is not subject to DOT regulations under 49 CFR Parts 171-180.

Oil: This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

International Air Transport Association Not regulated under IATA rules.

International Maritime Organization Classification Not regulated under International Maritime Organization rules.

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SECTION 15 REGULATORY INFORMATION

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#### FEDERAL REGULATORY STATUS

# OSHA Classification:

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Ozone Depleting Substances (40 CFR 82 Clean Air Act): This material does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances.

Superfund Amendment & Reauthorization Act (SARA) Title III: There are no components in this product on the SARA 302 list.

SARA Hazard Categories (311/312):

Immediate Health:NO Delayed Health:NO Fire:NO Pressure:NO Reactivity:NO

SARA Toxic Release Inventory (TRI) (313): Zinc compounds

Toxic Substances Control Act (TSCA) Status: All component(s) of this material is(are) listed on the EPA/TSCA Inventory of Chemical Substances.

Other Chemical Inventories:

Component(s) of this material is (are) listed on the Australian AICS, Canadian DSL, Chinese Inventory, European EINECS, Korean Inventory, Philippines PICCS,

State Regulation

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65). WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

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SECTION 16 OTHER INFORMATION

Revision#: 13

Review Date: 06/04/2004 Revision Date: 06/04/2004

Revisions since last change (discussion): This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-1998). We encourage you to take the opportunity to read the MSDS and review the information contained therein.

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SECTION 17 LABEL INFORMATION

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READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND

MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

PRODUCT CODE(S): 54103

Rotella® T Oil 30W

#### CAUTION!

MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE OIL ACNE OR DERMATITIS. USED GASOLINE ENGINE OIL HAS BEEN SHOWN TO CAUSE CANCER IN LABORATORY ANIMALS.

#### Precautionary Measures:

Avoid prolonged or repeated contact with eyes, skin and clothing. Avoid breathing of vapors, fumes, or mist. Use only with adequate ventilation. Wash thoroughly after handling.

#### FIRST AID

Inhalation: If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

Skin Contact: Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

Eye Contact: Flush with water. If irritation occurs, get medical attention. If redness, burning, blurred vision or swelling persist, transport to nearest medical facility for additional treatment.

Ingestion: Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Have victim rinse mouth out with water, then drink sips of water to remove taste from mouth.

#### FIRE

In case of fire, Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use a direct stream of water. Material will float and can be re-ignited on surface of water.

SPILL OR LEAK

Dike and contain spill.

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

CONTAINS: Highly refined petroleum oils, Mixture; Proprietary Additives, Mixture; Zinc Dialkyldithiophosphate, 68649-42-3

NFPA Rating (Health, Fire, Reactivity): 0, 1, 0

#### TRANSPORTATION

US Department of Transportation Classification This material is not subject to DOT regulations under 49 CFR Parts 171-180. Oil: This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65). WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flames or heat. Keep container closed and drum bungs in place.

Name and Address
SOPUS Products
P.O. Box 4427
Houston, TX 77210-4427

ADMINISTRATIVE INFORMATION
MANUFACTURER ADDRESS: SOPUS Products, P.O. Box 4427, Houston, TX. 77210-4427

THE INFORMATION CONTAINED IN THIS DATA SHEET IS BASED ON THE DATA AVAILABLE TO US AT THIS TIME, AND IS BELIEVED TO BE ACCURATE BASED UPON THAT: IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT, FOR PURPOSE OF HAZARD COMMUNICATION. IT IS NOT INTENDED TO CONSTITUTE PRODUCT PERFORMANCE INFORMATION, AND NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND IS MADE WITH RESPECT TO THE PRODUCT, UNDERLYING DATA OR THE INFORMATION CONTAINED HEREIN. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE, AND ARE ENCOURAGED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE THE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, YOU SHOULD CONSULT WITH YOUR LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. WE WILL NOT PROVIDE ADVICE ON SUCH MATTERS, OR BE RESPONSIBLE FOR ANY INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN. THE UNDERLYING DATA, AND THE INFORMATION PROVIDED HEREIN AS A RESULT OF THAT DATA, IS THE PROPERTY OF SOPUS PRODUCTS AND IS NOT TO BE THE SUBJECT OF SALE OR EXCHANGE WITHOUT THE EXPRESS WRITTEN CONSENT OF SOPUS PRODUCTS.

44084-11434-100R-03/16/2005

# Ex∕onMobil

# Material Safety Data Sheets

New Search	Get This Document I
605782-00 MOBIL PEGASUS 1 MATERIAL SAFETY DATA BULLETIN	
	<b>-</b>
1. PRODUCT AND COMPANY IDENTIFICATION	
PRODUCT NAME: MOBIL PEGASUS 1 SUPPLIER: EXXONMOBIL OIL CORPORATION 3225 GALLOWS RD. FAIRFAX, VA 22037	
24 - Hour Health and Safety Emergency (call collect): 609-737-4411	
24 - Hour Transportation Emergency: CHEMTREC: 800-424-9300 202-483-7616 LUBES AND FUELS: 281-834-3296	
Product and Technical Information: Lubricants and Specialties: 800-662-4525 800-443-9966 Fuels Products: 800-947-9147 MSDS Fax on Demand: 713-613-3661 MSDS Internet Website: http://www.exxon.com, http://www.mobil.com	
2. COMPOSITION/INFORMATION ON INGREDIENTS	
CHEMICAL NAMES AND SYNONYMS: SYN. HYDROCARBONS AND ADDITIVES	
GLOBALLY REPORTABLE MSDS INGREDIENTS:	
None.	
OTHER INGREDIENTS:	
Substance Name Approx. Wt%	
POLY BUTENYL SUCCINIMIDE 5-15	
See Section 8 for exposure limits (if applicable).	
3. HAZARDS IDENTIFICATION	
Under normal conditions of use, this product is not considered hazardo according to regulatory guidelines (See section 15).	ous

EMERGENCY OVERVIEW: 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 foq. 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): > 204(400) (ASTM D-92).

Flammable Limits (approx.% vol.in air) - LEL: 0.9%, UEL: 7.0% NFFA 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 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. 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. FERSONAL 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

STORAGE: Keep containers closed when not in use. Do not store in oper 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: Amber ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): > 204(400) (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: 0.846 SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: > 3.5 VISCOSITY AT 40 C, cSt: 93.8 VISCOSITY AT 100 C, cSt: 13.0 POUR POINT C(F): < -48(-54) FREEZING POINT C(F): NE

VOC: < 5.00 (Wt. %); 0.358 lbs/gal

*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.

# 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): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the

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.

ECOTOXICITY: 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 solubility of this product, therefore bioavailability to aquatic organisms is minimal.

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#### 13. DISPOSAL CONSIDERATIONS

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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 European Union Dangerous Substances/Preparations Directives. EU labeling not required.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELTNCS, METI, 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 product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS *

-----

ZINC (ELEMENTAL ANALYSIS) (<0.06%) 7440-66-6 22 PHOSPHORODITHOIC ACID, O,O-DI 68649-42-3 22 Cl-14-ALKYL ESTERS, ZINC SALTS (2: 1) (ZDDP) (0.48%)

--- REGULATORY LISTS 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 5a2 17=CA P65 REPRO 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 12b 20=IL RTK 25=PA RTK
26=RI RTK

* EPA recently added new chemical substances to its TSCA Section 4 test rules. Pleas contact the supplier to confirm whether the ingredients in this product currently ap a TSCA 4 or TSCA 12b list.

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 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.

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 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 contained in this document comply with the laws of any other country except the United States of America.

Prepared by: ExxonMobil Oil Corporation
Environmental Health and Safety Department, Clinton, USA

Emergency Numbers

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D

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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 March 17, 1999 Submit Original

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACC	CEPT SOLID WASTE	•
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Riley Industrial	RCVD JANIY GU CGAC
Verbal Approval Received: Yes ⊠ No: ☐ From Brandon Powell – OCD-District III - 1/12/2007	5. Originating Site: 2615 San Juan Blvd.	
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: Riley Industrial	
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499	8. State: New Mexico	
7. Location of Material (Street Address or ULSTR) 2615 San Juan Blvd. Farmington, New Mexico	9. County San Juan	
A. All requests for approval to accept oilfield exempt wastes will be accompan	ied by a certification of waste from t	he Generator;
resulting from vandalism/sabotage to the diesel storage tank located in the Rile Fuel.	ste classified hazardous by listing or ally those consigned for transport.	of No. 2 Diesel Fuel DS for No. 2 Diesel
B. All requests for approval to accept non-exempt wastes must be accompanied material is not-hazardous and the Generator's certification of origin. No was approved  All transporters must certify the wastes delivered are on BRIEF DESCRIPTION OF MATERIAL: Road Base (sand, clay, gravel) mixeresulting from vandalism/sabotage to the diesel storage tank located in the Rile Fuel.  Estimated Volume 24 cubic yards Known Volume (to be entered waste Management Facility Authorized Agent)  TITLE: Option of the diesel storage of the diesel storage tank located in the Rile Signature.	ste classified hazardous by listing or ally those consigned for transport.  Ed with approximately 500 gallons by Industrial yard. Attached: MS and by the operator at the end of the electrons Manager DATE: 1/12	of No. 2 Diesel Fuel DS for No. 2 Diesel c haul)
B. All requests for approval to accept non-exempt wastes must be accompanied material is not-hazardous and the Generator's certification of origin. No was approved  All transporters must certify the wastes delivered are on BRIEF DESCRIPTION OF MATERIAL: Road Base (sand, clay, gravel) mixeresulting from vandalism/sabotage to the diesel storage tank located in the Rile Fuel.  Estimated Volume 24 cubic yards Known Volume (to be entered SIGNATURE)  Waste Management Facility Authorized Agent	ste classified hazardous by listing or ally those consigned for transport.  Ed with approximately 500 gallons by Industrial yard. Attached: MS and by the operator at the end of the electrons Manager DATE: 1/12	of No. 2 Diesel Fuel DS for No. 2 Diesel c haul)



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor
Joanna Prukop
Cabinet Secretary

Mark Fesmire
Director
Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Riley Industrial Services, Inc. 2615 San Juan Blyd	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
Farmington, NM 87499	#81 CR 3150 Aztec, NM 87410
rainington, ivivi 6/433	Phone # 505-632-1782 Fax No# 505-334-1003
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
2615 San Juan Blvd	:
2013 San Juan Bivu	Street Address: 2615 San Juan Blvd.
Attach list of originating sites as appropriate	Succe Address. 2013 San Juan Diva.
4. Source and Description of Waste	
Road Base (sand, clay, gravel) mixed with approximately 5 vandalism/sabotage to the diesel storage tank located in the Fuel.	500 gallons of No. 2 Diesel Fuel resulting from e Riley Industrial yard. Attached: MSDS for No. 2 Diesel
I, <u>G.W. Riley</u> representative for: <u>Riley Industrial Services, Inc.</u> and Recovery Act (RCRA) and Environmental Protection Agency's Julis:	do hereby certify that, according to the Resource Conservation ly, 1988, regulatory determination, the above described waste
(Check appropriate classification)	
Analysis	EMPT oilfield waste which is non-hazardous by characteristic or by product identification and that nothing has been added to opt or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentation is attached (cl  X MSDS Information Oth  RCRA Hazardous Waste Analysis  Chain of Custody	heck appropriate items): her (description
This waste is in compliance with Regulated Levels of Naturally Occ NMAC 3.1 subpart 1403.C and D.	curring Radioactive Material (NORM) pursuant to 20
Name (Original Signature):	Phone Contact: 327 - 4947
Title: Superintendant	P.O# / Pay key No:
Date: /-/2-07	

505 634 4791

MSDS Code: 001847

Status: Final

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# ConocoPhillips

# **MATERIAL SAFETY DATA SHEET**

# No. 2 Diesel Fuel

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

No. 2 Diesel Fuel

Synonyms:

CARB Diesel TF3: CARB Diesel; CARB Diesel 10% CARB Diesel Ultra Low Sulfur - Dyed and Undyed EPA Low Sulfur Diesel Fuel - Dyed and Undyed EPA Off Road High Sulfur Diesel - Dyed High Sulfur Diesel Fuel; Low Sulfur Diesel Fuel

No. 2 Diesel Fuel Oil

No. 2 High Sulfur Diesel - Dyed

No. 2 Low Sulfur Diesel - Dyed; No. 2 Low Sulfur Diesel - Undyed

No. 2 Low Sulfur Distillate

No. 2 Ultra Low Sulfur Diesel - Dyed; No. 2 Ultra Low Sulfur Diesel - Undyed

Super Diesel Fuel; Super Diesel Fuel II-LS

Virgin Diesel Fuel; No. 2 Distillate

Super Diesel Fuel; Super Diesel Fuel II-LS

Virgin Diesel Fuel

Intended Use:

Fuel

Chemical Family:

Petroleum Hydrocarbon

Responsible Party:

ConocoPhillips

600 N. Dairy Ashford

Houston, Texas 77079-1175

MSDS Information:

800-762-0942

MSDS@conocophillips.com

**Customer Service:** 

Technical Information:

800-527-5476

800-527-5476

#### **Emergency Overview**

24 Hour Emergency Telephone Numbers: Spill, Leak, Fire or Accident Call CHEMTREC: North America: (800) 424-9300

Others: (703) 527-3887 (collect)

California Poison Control System: (800) 356-3219

Health Hazards/Precautionary Measures: Causes skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use with ventilation adequate to keep exposure below recommended limits, if any. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Flammable liquid and vapor. Keep away from heat, sparks, flames, static electricity or other sources of ignition:

Appearance:

Straw colored to dyed red

Physical Form:

Liquid

Odor:

Diesel fuel

NFPA 704 Hazard Class:

Health:

1 (Slight)

Flammability:

2 (Moderate)

Instability:

0 (Least)

Status: Final

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# 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component / CAS No:	Concentration (wt %)	ACGIH:	OSHA:	NIO\$H:	Other:
Diesel Fuel No. 2 68476-34-6	100	100 mg/m³ TWA- SKIN	NE	NE	
Naphthalene 91-20-3	ব	10 ppm TWA 52 mg/m³ TWA 15 ppm STEL 79 mg/m³ STEL	10 ppm TWA 50 mg/m³ TWA	250 ppm IDLH	una

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM. NE=Not Established

# 3. HAZARDS IDENTIFICATION

#### Potential Health Effects

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Mild to moderate skin imitant. Contact may cause redness, itching, burning, and skin damage. Prolonged or repeated contact may cause drying and cracking of the skin, dermatitis (inflammation), burns, and severe skin damage. No harmful effects from skin absorption have been reported.

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the respiratory tract, irritation of the digestive tract, nausea, diarrhea, transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: There is inadequate information to evaluate the cancer hazard of this material. See Section 11 for information on the individual components, if any.

Target Organs: Inadequate evidence available for this material. See Section 11 for target-organ toxicity information of individual components, if any.

Developmental: inadequate data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders.

#### 4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek medical attention.

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Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**Ingestion (Swallowing):** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

# 5. FIRE-FIGHTING MEASURES

#### Flammable Properties:

Flash Point

125-180°F / 52-82°C

Test Method

Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

**OSHA Flammability Class:** 

Combustible liquid

LEL%:

0.3

UÊL%:

10.0

**Autoignition Temperature:** 

500°F / 260°C

Unusual Fire & Explosion Hazards: This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/sir explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

**Extinguishing Media:** Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

# 6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof electrical equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk, Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbert material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

P.005

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#### 7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one yessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

#### Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible imitation, and skin damage. Examples of approved materials are nitrile or Viton® (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or Injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical Form:

Odor:

Odor Threshold:

Vapor Pressure (mm Hg):

Vapor Density (air=1):

**Bolling Point**:

Solubility in Water:

Partition Coefficient (n-octanol/water) (Kow):

Specific Gravity: **Bulk Density:** 

Viscosity cSt @ 40°C; Percent Volatile:

Evaporation Rate (nBuAc=1);

Flash Point: Test Method:

LEL%:

UEL%:

Autoignition Temperature:

Straw colored to dyed red

Liquid Diesel fuel

No data Not applicable

0.40

300-690°F / 149-366°C

Negligible

No data

0.81-0.88@ 60°F (15,6°C)

7.08 lbs/gal

1.7-4.1

Negligible@ ambient conditions

<1

125-180°F / 52-82°C

Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

0.3

10.0

500°F / 260°C

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Flammable liquid and vapor. Vapor can cause flash fire.

Conditions to Avoid; Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Avoid contact with strong exidents such as liquid chlorine, concentrated exygen, sodium hypochlorite, calcium hypochlorite, etc.

Hazardous Decomposition Products: Combustion can yield carbon, nitrogen and sulfur oxides. The use of hydrocarbon fuel in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur and nitrogen, benzene and other hydrocarbons) and/or dangerously low oxygen levels. See Section 11 for additional information on hazards of engine exhaust IARC has classified Diesel exhaust as probably carcinogenic in humans.

Hazardous Polymerization: Will not occur.

# 11. TOXICOLOGICAL INFORMATION

Chronic Data:

# Diesel Fuel No. 2 (68476-34-6)

Carcinogenicity: Petroleum middle distillates have been shown to cause skin tumors in mice following repeated and prolonged skin contact. Follow-up studies have shown that these tumors are produced through a non-genotoxic mechanism associated with frequent cell damage and repair, and that they are not likely to cause tumors in the absence of prolonged skin imitation. Animal studies have also shown that washing the skin with soap and water can reduce the tumor response. Middle distillates with low polynuclear aromatic hydrocarbon content have not been identified as a carcinogen by NTP, IARC or OSHA. Target Organs: Limited evidence of renal impairment has been noted from a few older case reports involving excessive exposure to diesel fuel No. 2. However, renal toxicity has not been demonstrated to be a consistent finding of diesel fuel ехфовиле.

#### Naphthalene (91-20-3)

Cercinogenicity: Naphthalene has been evaluated in two year Inhalation studies in both rats and mice. The National Toxicology Program (NTP) concluded that there is clear evidence of carcinogenicity in male and female rats based on increased incidences of respiratory epithelial adenomas and olfactory epithelial neuroblastomas of the nose. NTP found some evidence of carcinogenicity in female mice (alveolar adenomas) and no evidence of carcinogenicity in male mice. Naphthalene has been identified as a carcinogen by IARC and NTP.

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# 14. TRANSPORT INFORMATION

Labels: Flammable

Placards/Marking (Bulk): Flammable/1202 Packaging - Non-Bulk: P001, LP01

EMS: F-E. S-E

#### **ICAO/IATA**

UN/ID #: UN1202

Proper Shipping Name: Diesel fuel Hazard Class/Division: 3

Packing Group: III Subsidiary risk: None

Non-Bulk Package Marking: Diesel fuel, UN1202

Labels: Flammable

	LID. QIY,	Passenger Aircraft	Cargo Aircraft Only
Packaging Instruction #:	Y309	309	310
Max. Net City. Per Package:	10 L	60 L	220 L

# 15. REGULATORY INFORMATION

#### U.S. Regulations:

Max.

#### EPA SARA 311/312 (Title III Hazard Categories)

Acute Health:

Yes

Chronic Health:

No.

Fire Hazard: Pressure Hazard: Yes

No

Reactive Hazard:

No

# SARA - Section 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372: Naphthalene.....91-20-3.....<1%

# EPA (CERCLA) Reportable Quantity (in pounds):

EPA's Petroleum Exclusion applies to this material - (CERCLA 101(14)).

# CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPOs (in pounds):

This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372: - None Known -

#### California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 55 (CA Health & Safety Code Section

Benzene - Cancer, Developmental and Reproductive Toxicant

Naphthalene - Cancer

Toluene - Developmental Toxicant

Diesel engine exhaust, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer.

### Carcinogen identification:

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

Diesel exhaust is a probable cancer hazard based on tests in laboratory animals. It has been identified as a carcinogen by IARC.

All components are listed on the TSCA inventory.

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#### International Regulations:

#### Canadian Requistions:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Domestic Substances List: Listed WHMIS Hazard Class:
B2 - Flammable Liquids

D2B - Materials Causing Other Toxic Effects - Toxic Material

DIAL OIL COMPANY

# 16. OTHER INFORMATION

basue Date:

Previous Issue Date: Product Code:

Previous Product Code:

Revised Sections or Basis for Revision:

MSDS Code:

21-Feb-2006

13-Feb-2003

Multiple

Multiple

Product Name / Synonyms (Section 1)

001847

#### Disclaimer of Expressed and implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

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#### Acute Data:

Diesel Fuel No. 2 (68476-34-6)
Dermal LD50= >5ml/kg (Rabbit)
LC50= No data available
Oral LD50= 9 ml/kg (Rat)

Naphthalene (91-20-3) Dermal LD50=>2.5 g/kg (rat) LC50=>340 mg/m³/1H (rat) Oral LD50= 490 mg/kg; 2.6 g/kg (rat)

# 12. ECOLOGICAL INFORMATION

When middle distillate hydrocarbons escape into the environment due to leaks or spills, most of their constituent hydrocarbons will evaporate and be photodegraded by reaction with hydroxyl radicals in the atmosphere. The half-lives in air for many of the individual hydrocarbons is less than one day. Less volatile hydrocarbons can persist in the aqueous environment for longer periods. They remain floating on the surface of the water, those that reach soil or sediment biodegrade relatively slowly. Soil contaminated with middle distillates can develop adapted microbial species able to use the fuel as a carbon source; soil aeration and nutrient supplementation can enhance this biodegradation.

Reported LC50/EC50 values for water-soluble fractions of middle distillates are usually in the range of 10 to 100 mg/liter. Adverse effects on the gills, pseudobranch, kidney and nasal mucosa have been reported in fish involved in spills of middle distillates. Juvenile clams may be particularly sensitive to marine sediments contaminated as a result of spilled material. Direct toxicity and fouling of sea birds can occur if birds dive through floating layers of spilled material.

Phytotoxic effects of middle distillate hydrocarbons have been reported following exposure of plants to sprays or vapors. Lack of seed germination and inhibition of seedling growth may also occur. There is evidence for moderate bloaccumulation of the water-soluble hydrocarbons present in middle distillates.

# 13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not a RCRA "listed" hazardous waste. However, it should be fully characterized for ignitability (D001) and benzene (D018) prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

#### 14. TRANSPORT INFORMATION

#### DOT

Shipping Description: Diesel Fuel, Combustible liquid, NA1993, III Non-Bulk Package Marking: Not regulated in non-bulk quantities Non-Bulk Package Labeling: Not regulated in non-bulk quantities

Bulk Package/Placard Marking: Combustible/1993

Packaging - References (Exceptions, Non-Bulk, Bulk): 49 CFR 173.150(f), 173.203, 173.241

Hazardous Substance: None Emergency Response Guide: 128

Note: This product has been reclassified as a Combustible Liquid for domestic land transportation using 49 CFR 173.150(f).

# IMDG

Shipping Description: UN1202, Diesel fuel, 3, III (52°C) Non-Bulk Package Marking: Diesel fuel, UN1202

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 Revised March 17, 1999

Submit Original
Plus 1 Conv

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST	FOR APPR	OVAL	OT	ACCEP	TS	OLID	WAST	$\mathbf{E}_{-}$
					4.	Generate	or:	

1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Aztec Well Services
Verbal Approval Received: Yes No:	5. Originating Site: 5 miles up Snakehill Rd. off of Hwy 64
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: Underground Specialties Construction
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR) 5 miles up Snakehill Road off of Hwy. 64 @ mile marker 96	
9. Circle One:  A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  B. 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  All transporters must certify the wastes delivered are only thought by the serior of unused Quik-Gel (both products are used to keep gas downhole and bring up dirt)  MSDS attached.  Estimated Volume 5—6 cy Known Volume cyds (to be entered by the open serior of the serior	ecessary chemical analysis to PROVE the ssified hazardous by listing or testing will be see consigned for transport.  I with 2 buckets of unused EZ-Mud and 7 sacks b.
SIGNATURE  TITLE: Administrative ( Waste Management Facility Authorized Agent	Officer DATE: 2/1/2007
TYPE OR PRINT NAME: <u>Marcella Marquez</u> TELEPHONE NO. <u>(505)</u> 632-	1782
E-MAIL ADDRESS: marcella@industrialecosystems.com	
(This space for State Use)	
APPROVED BY: TITLE:	DATE:
APPROVED BY: TITLE:	DATE:



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

GOVETAGE

JOHNER PTUKOP

Cabled Secretary

Mark Fessaire
Director
Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Aztec Well Service 900 S. Main Street Aztec, Not 87410  3. Originating Site (name):  5 miles up Snakehill Road off of Hwy, 64 @ mile mar	2. Destination Name:  J.F.J. Landfarm C/O Industrial Ecosystems Inc.  #81 CR 3150  Aztee, NM 87410  Phone # 505-632-1782 Fax No#:505-334-1003  Location of the Waste (Street address & for ULSTR):
Aztec, NM 87410  3. Originating Site (name):	#81 CR 3150 Aztec, NM 87410 Phone # 505-632-1782 Fax No# :505-334-1003
3. Originating Site (name):	Phone # 505-632-1782 Fax No#:505-334-1003
	Location of the Waste (Street address & for ULSTR);
5 miles un Snakehill Road off al Her: 64 @ mile mar	
	rker 96 L5TRor attach list Street Address: 5 mikes up Snakeb III Road off of Hwy. 64 @ mile marker 96
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
downhole and bring up the dirt)	
(RCRA) and Environmental Protection Agency's July, 1988, results appropriate classification)  EXEMPT oilfield waste	-EXEMPT oilfield waste which is non-hazardous by characterist
and I	is or by product identification and that nothing has been added to tempt or non-exempt non-hazardous waste defined above.
NON-EXEMPT waste the following documentation is attached	
X_MSDS InformationRCRA Hazardous Waste AnalysisChain of Custody	Other (description)
waste is in compliance with Regulated Levels of Naturally (AC 3.1 subpart 1403.C and D.	Occurring Radioactive Material (NORM) pursuant to 20
e (Original Signature)	Phone Contact: <u>505-320-6466</u>
: HSE Supervisor	P.O# / Pay key No:
: <u>1/30/2007</u>	
: <u>I/30/2007</u>	
: <u>1/30/2007</u>	

Phone: (505) 334-6178 * Fax (505) 334-6170 * http://www.emnrd.state.nrn.us

PHONE NO. : 505 334 3137

# HALLIBURTON

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** 

**EZ-MUD®** 

**Revision Date:** 

16-Feb-2004

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

EZ-MUD®

Synonyms:

Application:

None

Chemical Family:

Blend Shale Inhibitor

Manufacturer/Supplier

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

Chemical Compliance

Telephone: 1-580-251-4335

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA	_
Hydrotreated light petroleum	64742-47-8	10 - 30%	200 mg/m ³	Not applicable	_
distillate	ł	Į.		1	- 1

# 3. HAZARDS IDENTIFICATION

Hazard Overview

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and

other central nervous system effects. 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 give oxygen. Get medical attention.

Skin

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

contaminated shoes and discard.

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

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

aspiration.

Notes to Physician

Not Applicable

EZ-MUD® Page 1 of 6

FROM : TRIPLE S TRKG WTR DEPT

Jan. 30 2007 03:04PM P3

PHONE NO. : 505 334 3137

# FIRE FIGHTING MEASURES

Flash Point/Range (F):

> 200Min: > 200

Flash Point/Range (C):

Not DeterminedMin: > 93

Flash Point Method:

**PMCC** 

Autoignition Temperature (F): Autoignition Temperature (C): > 392 > 200

Flammability Limits in Air - Lower (%): Flammability Limits in Air - Upper (%): Not Determined Not Determined

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards

Decomposition in fire may produce toxic gases. Use water spray to cool fire exposed

surfaces.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

NFPA Ratings: HMIS Ratings:

Health 2. Flammability 1. Reactivity 0 Flammability 1, Reactivity 0, Health 2

# **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment.

**Environmental Precautionary** 

Prevent from entering sewers, waterways, or low areas.

Measures

Procedure for Cleaning /

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials.

Absorption

Scoop up and remove.

# 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 container closed when not in use.

# EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** 

A well ventilated area to control dust levels. Local exhaust ventilation should be used

in areas without good cross ventilation.

Respiratory Protection

Organic vapor respirator with a dust/mist filter. In high concentrations, supplied air

respirator or a self-contained breathing apparatus.

**Hand Protection** 

Impervious rubber gloves.

Skin Protection

Rubber apron.

**Eve Protection** 

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

Other Precautions

Eyewash fountains and safety showers must be easily accessible.

# PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Liquid

Color: Odor:

White to gray Mild hydrocarbon

:Ha

6-8 EZ-MUD® Page 2 of 6

Jan. 30 2007 03:04PM P4

PHONE NO. : 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity @ 20 C (Water=1): 1.0
Density @ 20 C (lbs./gallon): 8.3

Bulk Density @ 20 C (lbs/ft3): Not Determined

Boiling Point/Range (F): 347
Boiling Point/Range (C): 175

Freezing Point/Range (F):

Freezing Point/Range (C):

Not Determined

Vapor Pressure @ 20 C (mmHg): 0.002

Vapor Density (Air=1): Not Determined

Percent Volatiles: 70
Evaporation Rate (Butyl Acetate=1): <1
Solubility in Water (g/100ml): Par

Solubility in Water (g/100ml): Partially soluble
Solubility in Solvents (g/100ml): Not Determined
VOCs (lbs/gallon): Not Determined
Viscosity, Dynamic @ 20 C (centipoise): Not Determined
Viscosity, Kinematic @ 20 C (centistrokes): Not Determined
Partition Coefficient/n-Octanol/Water: Not Determined

Molecular Weight (g/mole):

# 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

Avoidi

Strong oxidizers.

Hazardous Decomposition

**Products** 

Ammonia. Oxides of nitrogen. Carbon monoxide and carbon dioxide.

Not Determined

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,

siurred speech, giddiness and unconsciousness.

Skin Contact May cause skin irritation.

Eye Contact May cause severe eye irritation.

Ingestion Aspiration into the lungs may cause chemical pneumonitis including coughing,

difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. 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.

Aggravated Medical Conditions Lung disorders.

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

chronic health hazards.

Other Information None known.

EZ-MUD® Page 3 of 6

Jan. 30 2007 03:05PM P5

**Toxicity Tests** 

PHONE NO. : 505 334 3137

**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

# **ECOLOGICAL INFORMATION**

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

BOD(28 Day): 40% of COD

Bio-accumulation

Not Determined

# **Ecotoxicological Information**

Acute Fish Toxicity:

TLM96: >1000 mg/l (Pimephales promelas)

Acute Crustaceans Toxicity; TLM48: 98 mg/l (Acartia tonsa)

**Acute Algae Toxicity:** 

EC50: 16.70 mg/l (Skeletonema costatum)

Chemical Fate Information

Not determined

Other Information

Not applicable

# **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.

# TRANSPORT INFORMATION

# Land Transportation

TOG

Not restricted

Canadian TDG

Not restricted

**ADR** Not restricted

Air Transportation

ICAO/IATA Not restricted

Sea Transportation

EZ-MUD® Page 4 of 6

Jan. 30 2007 03:05PM P6

PHONE NO. : 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

**IMDG** Not restricted

# Other Shipping Information

Labels:

None

# 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** 

Not applicable.

Reportable Spill Quantity For This Product

**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

D2B Toxic Materials

# OTHER INFORMATION

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

the user.

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 Chemical Compliance 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

> デア-MIJD® Page 5 of 6

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PHONE NO.: 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

Jan. 30 2007 03:06PM P8

FROM : TRIPLE S TRKG WTR DEPT

PHONE NO. : 505 334 3137

&GUM-Z3 8 to 8 sps9

# HALL BURTON

# **MATERIAL SAFETY DATA SHEET**

**Product Trade Name:** 

**QUIK-GEL®** 

Revision Date:

10-Jun-2005

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

QUIK-GEL®

Synonyms:

None

Chemical Family:

Mineral

Application:

Viscosifier

Manufacturer/Supplier

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

Chemical Compliance

Telephone: 1-680-251-4335

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Crystalline silica, cristobalite	14464-46-1	0 - 1%	0.025 mg/m³	1/2 × 10 mg/m³ %SiO2 + 2
Crystalline silica, tridymite	15468-32-3	0 - 1%	0.05 mg/m³	1/2 x 10 mg/m³ %SiO2 + 2
Crystalline silica, quartz	14808-60-7	1 - 5%	0.025 mg/m³	10 mg/m³ %SiO2 + 2
Bentonite	1302-78-9	60 - 100%	Not applicable	Not applicable

More restrictive exposure limits may be enforced by some states, agencies, or other authorities.

# 3. HAZARDS IDENTIFICATION

QUIK-GEL® Page 1 of 7

Jan. 30 2007 03:07PM P9

PHONE NO. : 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

# HAZARDS IDENTIFICATION

Hazard Overview

CAUTION! - ACUTE HEALTH HAZARD

May cause eye and respiratory irritation.

DANGER! - CHRONIC HEALTH HAZARD

Breathing crystalline silica can cause lung disease, including silicos is and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease.

This product contains quartz, cristobalite, and/or tridymite which may become airbome without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposures below recommended exposure limits. Wear a NIOSH certified, European Standard EN 149, or equivalent respirator when using this product. Review the Material Safety Data Sheet (MSDS) for this product, which has been provided to your employer.

### 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.

Eves

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes

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and get medical attention if irritation persists.

Ingestion

Under normal conditions, first aid procedures are not required.

Notes to Physician

Treat symptomatically.

# 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

All standard firefighting media.

Special Exposure Hazards

Not applicable.

Special Protective Equipment for Not applicable.

Fire-Fighters

NFPA Ratings: HMIS Ratings:

Health 0, Flammability 0, Reactivity 0

Flammability 0, Reactivity 0, Health 0*

# **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary** 

None known.

Measures

Procedure for Cleaning /

Absorption

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

QUIK-GEL®

Page 2 of 7

Jan. 30 2007 03:07PM P10

PHONE NO. : 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

# 7. HANDLING AND STORAGE

Handling Precautions This product contains quartz, cristobalite, and/or tridymite which may become

airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty

conditions. Use only with adequate ventilation to keep exposure below

recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

Storage Information Use good housekeeping in storage and work areas to prevent accumulation of dust.

Close container when not in use. Keep from excessive heat. Do not reuse empty

container.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Use approved industrial ventilation and local exhaust as required to maintain

exposures below applicable exposure limits listed in Section 2.

Respiratory Protection Wear a NIOSH certified, European Standard EN 149, or equivalent respirator when

using this product.

Hand Protection Normal work gloves.

Skin Protection Wear clothing appropriate for the work environment. Dusty clothing should be

laundered before reuse. Use precautionary measures to avoid creating dust when

removing or laundering clothing.

Eye Protection Wear safety glasses or goggles to protect against exposure.

Other Precautions None known.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: Various
Odor: Mild earthy
pH: 8-10

pH: Specific Gravity @ 20 C (Water≕1): 2.6

Density @ 20 C (lbs./gallon):

Not Determined
47.6-72.1

Bulk Density @ 20 C (lbs/ft3):

Boiling Point/Range (F):

Boiling Point/Range (C):

Freezing Point/Range (F):

Not Determined
Not Determined

Freezing Point/Range (C):

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1):

Percent Volatiles:

Not Determined
Not Determined
Not Determined

Percent Volatiles:

Evaporation Rate (Butyl Acetate=1):

Solubility in Water (g/100ml):

Solubility in Solvents (g/100ml):

Not Determined

Not Determined

Not Determined

Not Determined

Not Determined

VOCs (ibs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistrokes):

Not Determined

Not Determined

Not Determined

Partition Coefficient/n-Octanol/Water: Not Determined Not Determined

QUIK-GEL® Page 3 of 7

# STABILITY AND REACTIVITY

Stability Data:

Stable

Hazardous Polymerization:

Will Not Occur

Conditions to Avoid

None anticipated

Incompatibility (Materials to

Avoid)

Hydrofluoric acid.

**Hazardous Decomposition** 

**Products** 

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or The Contract of the State

网络加克马尔 经投资股份 医二二氏线 化水板 angling the more and the con-

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cristobalite (1470 C).

Additional Guidelines

Not Applicable

# TOXICOLOGICAL INFORMATION

Principle Route of Exposure

Eye or skin contact, inhalation.

Inhalation

Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause imitation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity" subsection

below).

Skin Contact

May cause mechanical skin imitation.

**Eye Contact** 

May cause eye irritation.

ingestion

None known

Aggravated Medical Conditions

Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to quartz dust.

> QUIK-GEL® Page 4 of 7

#### Chronic Effects/Carcinogenicity

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

#### Other Information

For further information consult "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997).

### **Toxicity Tests**

Oral Toxicity:

Not determined

**Dermal Toxicity:** 

Not determined

Inhalation Toxicity:

Not determined

Primary Irritation Effect:

Not determined

Carcinogenicity

Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June

1997).

Genotoxicity:

Not determined

Reproductive /

Developmental Toxicity:

Not determined

# **ECOLOGICAL INFORMATION**

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

Not determined

**Bio-accumulation** 

Not Determined

# **Ecotoxicological Information**

Acute Fish Toxicity:

TLM96: 10000 ppm (Oncorhynchus mykiss)

Acute Crustaceans Toxicity: Not determined Not determined Acute Algae Toxicity:

QUIK-GEL® Page 5 of 7

519 M960:20 700S 02 .nst

PHONE NO.: 505 334 3137

FROM : TRIPLE S TRKG WIR DEPT

Chemical Fate Information

Not determined

Other Information

Not applicable

# 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.

# 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

Labels:

None

# REGULATORY INFORMATION

### **US Regulations**

**US TSCA Inventory** 

All components listed on inventory.

**EPA SARA Title III Extremely** 

Hazardous Substances

EPA SARA (311,312) Hazard

Class

Acute Health Hazard Chronic Health Hazard

Not applicable

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

Not applicable.

Reportable Spill Quantity For This

**Product** 

**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

The California Proposition 65 regulations apply to this product.

QUIK-GEL® Page 6 of 7

Jan. 30 2007 03:09PM P14

PHONE NO.: 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

主义,为1941年1月28日建筑建筑设置,1940年1月20日,1941年1月2

원 부 경찰의 16 회 기

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

D2A Very Toxic Materials

Crystalline silica

# 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 Chemical Compliance 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 MSD\$***

QUIK-GEL® Page 7 of 7 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 Revised March 17, 1999

Submit Original
Plus 1 Copy

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Aztec Well Services
Verbal Approval Received: Yes No:	5. Originating Site: 5 miles up Snakehill Rd. off of Hwy 64
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: Underground Specialties Construction
3. Address of Facility Operator:	
JFJ Landfarm C/o. Industrial Ecosystems Inc.	8. State:
P.O. Box 2043	NM
Farmington, NM 87499	
7. Location of Material (Street Address or ULSTR) 5 miles up Snakehill Road off of Hwy. 64 @ mile marker 96	
9. Circle One:	
<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 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 tho	se consigned for transport.
BRIEF DESCRIPTION OF MATERIAL: Approximately 5-6 yards of soil impacted of unused Quik-Gel (both products are used to keep gas downhole and bring up dirt) MSDS attached.	
Estimated Volume 5-6 cy Known Volume cyds (to be entered by the operation)	perator at the end of the haul)
SIGNATURE    Maste Management Facility Authorized Agent   TITLE: Administrative (	Officer DATE: <u>2/1/2007</u>
TYPE OR PRINT NAME: <u>Marcella Marquez</u> TELEPHONE NO. (505) 632-	<u>-1782</u>
E-MAIL ADDRESS: marcella@industrialecosystems.com	
(This space for State Use)	
APPROVED BY: TITLE:	DATE:
APPROVED BY: TITLE:	DATE:



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

GOVETBOY

JOHNER Prukop

Cabi net Secretary

Mark Feamire
Director
Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1 1		I O Dester I. M.
	Generator Name and Address ttec Well Service	2. Destination Name:
	0 S. Main Street	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
	tec, NM 87410	#81 CR 3150
F.J.	110C, 14M1 8/41B	Aztec, NNE 87410
1 3	Originating Site (name):	Phone # 505-632-1782 Fax No#:505-334-1003
3.	Official Site (Banie).	Location of the Waste (Street address & for ULSTR):
	5 miles up Snakehill Road off of Attach list of originating sites as	Street Address: 5 miles up Snakelill Road off of Hwy, 64 @ mile marker 96
1	Source and Description of Wa	арэгоргия:
4.	Source and Description of Ma	
do	whitele and bring up the dird)	kets of unused EZ-mud & 7 sacks of Quik-Gel (both products are used to keep gas
		Service do hereby certify that, according to the Resource Conservation and Recovery
ct (RCRA Check app	.) and Environmental Protection A ropriate classification)  MPT oilfield waste	gency's July, 1988, regulatory determination, the above described waste is:
ct (RCRA Check appo EXE	ropriste classification)  MPT oilfield waste  EXEMPT waste the following doct  MSDS Information	NON-EXEMPT oilfield waste which is non-nazardous by characteristic Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  **mentation is attached (check appropriate items)**  Other (description)
ct (RCRA Check appo	mpriate classification)  MPT oilfield waste  EXEMPT waste the following docu  MSDS Information  RCRA Hazardous Waste Analysi  Chain of Custody	NON-EXEMPT oilfield waste which is non-nazardous by characteristic Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  **mentation is attached (check appropriate items)**  Other (description )
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exe (RCRA) Check apportunity  EXE  Or NONE  A  bis waste  MAC 3.1  Bame (Original)	MPT oilfield waste  EXEMPT waste the following doct MSDS Information RCRA Hazardous Waste Analysi Chain of Custody  is in compliance with Regulated subpart 1403.C and D.  ginal Signature;  Supervisor	NON-EXEMPT oilfield waste which is non-hazardous by characteristic Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items):  Other (description)  Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20  Phone Contact: 505-320-6466
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Phone: (505) 334-6178 * Fax (505) 334-6170 * http://www.sinnrd.state.nrn.us

PHONE NO. : 505 334 3137

# HALLIBURTON

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** 

**EZ-MUD®** 

**Revision Date:** 

16-Feb-2004

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

EZ-MUD®

Synonyms:

None

Chemical Family:

Blend

Application:

Shale Inhibitor

Manufacturer/Supplier

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

Chemical Compliance

Telephone: 1-580-251-4335

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Hydrotreated light petroleum	64742-47-8	10 - 30%	200 mg/m ³	Not applicable
distillate	,	}	}	

# 3. HAZARDS IDENTIFICATION

**Hazard Overview** 

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and

other central nervous system effects. 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 give oxygen. Get medical attention.

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

contaminated shoes and discard.

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

aspiration.

Notes to Physician Not Applicable

EZ-MUD® Page 1 of 6

Jan. 30 2007 03:04PM P3

PHONE NO.: 505 334 3137

# 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 (%): > 200Min: > 200

Not DeterminedMin: > 93

**PMCC** 

> 392 > 200

Not Determined Not Determined

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards

Decomposition in fire may produce toxic gases. Use water spray to cool fire exposed

surfaces.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

And the second second

fire fighting personnel.

NFPA Ratings: HWIS Ratings:

Health 2. Flammability 1, Reactivity 0 Flammability 1, Reactivity 0, Health 2

# **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.

Scoop up and remove.

# 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 container closed when not in use.

# EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** 

A well ventilated area to control dust levels. Local exhaust ventilation should be used

in areas without good cross ventilation.

Respiratory Protection

Organic vapor respirator with a dust/mist filter. In high concentrations, supplied air

respirator or a self-contained breathing apparatus.

Hand Protection

Impervious rubber gloves.

Skin Protection

Rubber apron.

Eve Protection

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

Other Precautions

Eyewash fountains and safety showers must be easily accessible.

# PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Color: Odor: pH:

Liquid

White to gray Mild hydrocarbon

6-8

EZ-MUD® Page 2 of 6

Jan. 30 2007 03:04PM P4

PHONE NO. : 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

PHYSICAL AND CHEMICAL PROPERTIES

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):

8.3

Not Determined

347 175

1.0

Not Determined Not Determined

人名西西克克特克 经金额 电路管管

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Not Determined

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Partially soluble 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** 

Ammonia. Oxides of nitrogen. Carbon monoxide and carbon dioxide.

Additional Guidelines

Not Applicable

# 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 irritation.

Eve Contact

May cause severe eye irritation.

Ingestion

Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. 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.

Aggravated Medical Conditions

Lung disorders.

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** 

EZ-MUD® Page 3 of 6

29 M920:50 7005 02 .n.b.t

PHONE NO.: 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

**Oral Toxicity:** 

Not determined

**Dermal Toxicity:** 

Not determined

Inhalation Toxicity:

Not determined

Primary Irritation Effect:

Not determined

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive i

Not determined

**Developmental Toxicity:** 

**ECOLOGICAL INFORMATION** 

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

BOD(28 Day): 40% of COD

Bio-accumulation

Not Determined

**Ecotoxicological Information** 

Acute Fish Toxicity:

TLM96: >1000 mg/l (Pimephales promelas)

Acute Crustaceans Toxicity: TLM48: 98 mg/l (Acartia tonsa)

Acute Algae Toxicity:

EC50: 16.70 mg/l (Skeletonema costatum)

**Chemical Fate Information** 

Not determined

Other Information

Not applicable

# DISPOSAL CONSIDERATIONS

**Disposal Method** 

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

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**Contaminated Packaging** 

Follow all applicable national or local regulations.

# TRANSPORT INFORMATION

# Land Transportation

TOD

Not restricted

Canadian TDG

Not restricted

**ADR** Not restricted

Air Transportation

ICAO/JATA Not restricted

Sea Transportation

EZ-MUD⊗ Page 4 of 6

Jan. 30 2007 03:05PM P6

PHONE NO. : 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

IN WAR BUT

**IMDG** Not restricted

# Other Shipping Information

Labels:

None

#### REGULATORY INFORMATION 15.

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).

And the state of the court of the constitute of the court 
**EPA CERCLA/Superfund** 

Not applicable.

Reportable Spill Quantity For This

**Product** 

**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. 。全海中国内主动。1985年第14**3**85

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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

**D2B Toxic Materials** 

# 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 Chemical Compliance 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.

> EZ-MUD® Page 5 of 6

FROM : TRIPLE S TRKG WTR DEPT PHONE NO. : 505 334 3137 Jan. 30 2007 03:06PM P8

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***END () E W2D2****

# HALLIBURTON

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PAN ALD DESIGN

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** 

**QUIK-GEL®** 

Revision Date:

10-Jun-2005

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name:

QUIK-GEL®

Synonyms:

None

Chemical Family: Application:

Mineral Viscosifier

Manufacturer/Supplier

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services; Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

Chemical Compliance

Telephone: 1-580-251-4335

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Crystalline silica, cristobalite	14464-46-1	0 - 1%	0.025 mg/m ³	1/2 × <u>10 mg/m</u> ³_ %SiO2 + 2
Crystalline silica, tridymite	15468-32-3	0 - 1%	0.05 mg/m ³	1/2 x <u>10 mg/m³</u> %SiO2 + 2
Crystalline silica, quartz	14808-60-7	1 - 5%	0.025 mg/m ³	10 mg/m ³ %SiO2 + 2
Bentonite	1302-78-9	60 - 100%	Not applicable	Not applicable

More restrictive exposure limits may be enforced by some states, agencies, or other authorities.

## 3. HAZARDS IDENTIFICATION

QUIK-GEL® Page 1 of 7

Jan. 30 2007 03:07PM P9

PHONE NO. : 505 334 3137

FROM : TRIPLE S TRKG WIR DEPT

# HAZARDS IDENTIFICATION

CAUTION! - ACUTE HEALTH HAZARD

May cause eye and respiratory initation.

DANGER! - CHRONIC HEALTH HAZARD

Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney

disease.

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposures below recommended exposure limits. Wear a NIOSH certified, European Standard EN 149, or equivalent respirator when using this product. Review the Material Safety Data Sheet (MSDS) for this product, which has been provided to your employer.

# 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.

Eves

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

Treat symptomatically. A common and many arresting and asymptomed that

# FIRE FIGHTING MEASURES

Flash Point/Range (F):

Not Determined the one majore disposal. Consular countries

Flash Point/Range (C):

Not Determined a supplied automorphism and use the reprince

Flash Point Method:

Not Determined

Not Determined

Autoignition Temperature (F):

Not Determined

Autoignition Temperature (C):

Not Determined

Flammability Limits in Air - Lower (%): Flammability Limits in Air - Upper (%):

Not Determined

Fire Extinguishing Media

All standard firefighting media.

Special Exposure Hazards

Not applicable.

Special Protective Equipment for Not applicable.

Fire-Fighters

NFPA Ratings:

Health 0, Flammability 0, Reactivity 0

HMIS Ratings:

Flammability 0, Reactivity 0, Health 0*

# ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary** 

Measures

None known.

Procedure for Cleaning /

Absorption

Collect using dustiess method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

> QUIK-GEL® Page 2 of 7

Jan. 30 2007 03:07PM P10

PHONE NO. : 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

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# 7. HANDLING AND STORAGE

Handling Precautions This product contains quartz, cristobalite, and/or tridymite which may become

airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty

conditions. Use only with adequate ventilation to keep exposure below

recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

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Storage Information

Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Keep from excessive heat. Do not reuse empty

container

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Use approved industrial ven

Use approved industrial ventilation and local exhaust as required to maintain

exposures below applicable exposure limits listed in Section 2.

**Respiratory Protection** 

Wear a NIOSH certified. European Standard EN 149, or equivalent respirator when

using this product.

**Hand Protection** 

Normal work gloves.

**Skin Protection** 

Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when

removing or laundering clothing.

Eye Protection

Wear safety glasses or goggles to protect against exposure.

Powder

Various

Other Precautions

None known.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Color:

Odor. Mild earthy 8-10

pH: 8-10 Specific Gravity @ 20 C (Water=1): 2.6

Density @ 20 C (lbs./gallon):

Not Determined

Bulk Density @ 20 C (lbs/ft3):

Boiling Point/Range (F):

Resiling Point/Range (C):

Not Determined

Boiling Point/Range (C):

Freezing Point/Range (F):

Freezing Point/Range (C):

Not Determined

Not Determined

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1):

Percent Volatiles:

Not Determined
Not Determined

Evaporation Rate (Butyl Acetate=1):

Solubility in Water (g/100ml):

Not Determined

Not Determined

Not Determined

Solubility in Water (g/100ml):

Solubility in Solvents (g/100ml):

Not Determined

Not Determined

Not Determined

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistrokes):

Partition Coefficient/n-Octanol/Water:

Not Determined

Not Determined

Molecular Weight (g/mole): Not Determined

QUIK-GEL® Page 3 of 7 DOMESTICAL STREET

# 10. STABILITY AND REACTIVITY

Stability Data:

Stable

Hazardous Polymerization:

Will Not Occur

**Conditions to Avoid** 

None anticipated

Incompatibility (Materials to

Avoid)

Hydrofluoric acid.

**Hazardous Decomposition** 

**Products** 

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or

and a provide on any material property. General 2000

on the control of the

The transfer of the above to be the state of 
er og er i skrive og skri<u>gter præden frålarer far sterneste kannett.</u> Her og grund i skrive formalle framkligter til flysklingsyntigere til økke Her skrive for og formalle flygter blande byter til til skrive til framkling.

cristobalite (1470 C).

Additional Guidelines

Not Applicable

# 11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure

Eye or skin contact, inhalation.

Inhalation

Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity" subsection

below).

Skin Contact

May cause mechanical skin imitation.

**Eye Contact** 

May cause eye irritation.

ingestion

None known

**Aggravated Medical Conditions** 

Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to quartz dust.

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QUIK-GEL® Page 4 of 7

PHONE NO.: 505 334 3137

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#### Chronic Effects/Carcinogenicity

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

#### Other Information

For further information consult "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997).

## **Toxicity Tests**

Oral Toxicity:

Not determined

**Dermal Toxicity:** 

Not determined

Inhalation Toxicity:

Not determined

Primary Irritation Effect:

Not determined

Carcinogenicity

Refer to IARC Monograph 68. Silica, Some Silicates and Organic Fibres (June

Art Report Manager Commen

1997).

Genotoxicity:

Not determined

Reproductive /

Not determined

Developmental Toxicity:

# **ECOLOGICAL INFORMATION**

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

Not determined

Bio-accumulation

Not Determined

# Ecotoxicological Information

Acute Fish Toxicity:

TLM96: 10000 ppm (Oncorhynchus mykiss)

Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity:

Not determined

QUIK-GEL® Page 5 of 7

Jan. 30 2007 03:09PM P13

PHONE NO. : 505 334 3137

FROM : TRIPLE S TRKG WIR, DEPT

Table also sweet to started

**Chemical Fate Information** 

Not determined

Other Information

Not applicable

### **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.

** ************

#### 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

Labels:

None

# REGULATORY INFORMATION

# **US Regulations**

**US TSCA Inventory** 

All components listed on inventory.

**EPA SARA Title III Extremely Hazardous Substances** 

EPA SARA (311,312) Hazard

**Class** 

Not applicable

Acute Health Hazard Chronic Health Hazard

EPA SARA (313) Chemicals

This product does not contain a toxic chemical for routine annual "Toxic Chemical

1. 小工工 河门下的流性 灰细 有關機能 建氯 打出放电池 计电路电路 華

环境联系统 有的 证证证明

Release Reporting" under Section 313 (40 CFR 372).

EPA CERCLA/Superfund

Not applicable.

Reportable Spill Quantity For This

Product

**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

The California Proposition 65 regulations apply to this product.

QUIK-GEL® Page 6 of 7

Jan. 30 2007 03:09PM P14

PHONE NO.: 505 334 3137

FROM : TRIPLE S TRKG WTR DEPT

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

D2A Very Toxic Materials

Crystalline silica

# 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 Chemical Compliance 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***

QUIK-GEL® Page 7 of 7 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 Revised March 17, 1999

Submit Original
Plus 1 Conv

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ALTROVAL TO ACCEL	I BOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator: BP America Production Company
Verbal Approval Received: Yes No:	5. Originating Site: Ulibarri GC 3M
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: IEI
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR) UL P S35 T30N R 9W	
All requests for approval to accept oilfield exempt wastes will be accompanied by a one certificate per job.  B All requests for approval to accept non-exempt wastes must be accompanied by a material is not-hazardous and the Generator's certification of origin. No waste classification approved  All transporters must certify the wastes delivered are only the BRIEF DESCRIPTION OF MATERIAL: Hydro-Carbon Impacted Soil from Illeg	assified hazardous by listing or testing will be ose consigned for transport.  al Dumping-RCRA-8 attached
Estimated Volume: 12 Cubic Yards Known Volume: (to be entered by t	he operator at the end of the haul)
SIGNATURE TITLE: Operation  Waste Management Facility Authorized Agent TITLE: Operation	ons Manager DATE: 10/30/2006
TYPE OR PRINT NAME: <u>Joel Owens</u> TELEPHONE NO. (505) 632-1782	
E-MAIL ADDRESS: joel.owens@industrialecosystems.com	
(This space for State Use)  APPROVED BY:  TITLE:	in the second se
APPROVED BY: TITLE:	DATE:





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor Joanna Prukop Cabinet Secretary Mark Fesmire
Director
Oil Conservation Division

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
BP America Production Company	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
200 Energy Court	#81 CR 3150
Farmington, NM 87401	Aztec, NM 87410 Phone # 505-632-1782 Fax No# 505-334-1003
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Ulibarri GC 3M	UL- P S 35 T 30N R- 9W or attach list Street Address:
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Hydro-Carbon Impacted soil from illegal dumping	
EXEMPT oilfield waste X NON	t (RCRA) and Environmental Protection Agency's July, 1988, eck appropriate classification)  -EXEMPT oilfield waste which is non-hazardous by characteristics or by product identification and that nothing has been added to
The ex	xempt or non-exempt non-hazardous waste defined above.
NON-EXEMPT waste the following documentation is attachedMSDS InformationX_RCRA Hazardous Waste Analysis X_Chain of Custody	
MSDS Information	d (check appropriate items): _Other (description
MSDS InformationX_RCRA Hazardous Waste AnalysisX_Chain of Custody  s waste is in compliance with Regulated Levels of Naturally	d (check appropriate items): _Other (description
MSDS Information X RCRA Hazardous Waste Analysis X Chain of Custody  s waste is in compliance with Regulated Levels of Naturally AC 3.1 subpart 1403.C and D.	d (check appropriate items): Other (description  Occurring Radioactive Material (NORM) pursuant to 20

# **CHAIN OF CUSTODY RECORD**

Client / Project Name	Project Location							<b></b>	*FTE00			
BLAGGE/BP	ULIBARRI	3M				Al	VALYSIS	/ PARAM	METERS	•		
Sampler: 9-C-S699	Client No. QUU34		No. of Containers	RCRA	8260	71				Remarks		
Sample No./ Sample Sample Identification Date Time	Lab Number	Sample Matrix	Seg	20 Z	82	797 2015						
GRAB # 1 1/1/06 1515	35716	SOUD	(	×	ン	X						
				<u> </u>								
	<u> </u>									٠		
											<u></u>	
	1			·								·
Relinquished by: (Signature)	1	Date Time Recei	yed by:	(Signatu	re) Q	کب				Date	Tim	- 1
Relinquished by: (Signature)			ved by:	(Signatu	re)			<del></del>		-112404		
Relinquished by: (Signature)		Recei	ved by:	(Signatu	re)						-	
	E	OVIROTE	CH	Inc	5				Samp	le Receipt		
			i . " et		2					Υ	N	N/A
	F	5796 U.S. High Farmington, New M							Received Intac	it U		
	•	(505) 632-0							Cool - Ice/Blue I	ce -		

Line 1

#### TRACE METAL ANALYSIS

10-17-2006

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Grab #1	Date Reported:	01-13-06
Laboratory Number:	35716	Date Sampled:	01-11-06
Chain of Custody:	15360	Date Received:	01-12-06
Sample Matrix:	Solid	Date Analyzed:	01-13-06
Preservative:	N/A	Date Digested:	01-12-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Parameter	(mg/Kg)	(mg/kg)	(mg/Kg)
•			
Arsenic	0.098	0.001	5.0
Barium	58.4	0.001	100
Cadmium	0.020	0.001	1.0
Chromium	0.167	0.001	5.0
Lead	0.635	0.001	<b>5.0</b>
Mercury	ND ·	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND .	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Ulibarri 3M.

# ENVIROTECH LABS

# EPA Method 8260B Volatile Organic Compounds by GC/MS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Grab #1	Date Reported:	01-13-06
Chain of Custody:	15360	Date Sampled:	01-11-06
Laboratory Number:	35716	Date Received:	01-12-06
Sample Matrix:	Solid	Date Analyzed:	01-13-06
Preservative:	Cool	Date Extracted:	01-12-06
Condition:	Cool and Intact	Analysis Requested:	8260 VOC

			Det.	Dilution
Parameter	Concentration	Units	Limit	Factor
Benzene	ND	(ug/Kg)	1.0	. 1
Toluene	20.0	(ug/Kg)	1.0	1
Ethylbenzene	10.8	(ug/Kg)	1.0	1
Kylenes, Total	22.1	(ug/Kg)	1.0	1
Methyl tert-butyl ether (MTBE)	ND	(ug/Kg)	1.0	1
,2,4-Trimethylbenzene	4.81	(ug/Kg)	1.0	1
,3,5-Trimethylbenzene	2.48	(ug/Kg)	1.0	1
,2-Dichloroethane (EDC)	ND	(ug/Kg)	1.0	1
,2-Dibromoethane (EDB)	ND	(ug/Kg)	1.0	1
Naphthalene	36.3	(ug/Kg)	1.0	1
I-Methylnaphthalene	78.0	(ug/Kg)	2.0	1
2-Methylnaphthalene	71.6	(ug/Kg)	2.0	1
Bromobenzene	ND	(ug/Kg)	1.0	1
3romochloromethane	ND	(ug/Kg)	1.0	1
3romodichloromethane	ND	(ug/Kg)	1.0	1
Bromoform	ND	(ug/Kg)	1.0	. ,
Bromomethane	ND	(ug/Kg)	1.0	•
Carbon Tetrachloride	ND	(ug/Kg)	1.0	•
Chlorobenzene	ND	(ug/Kg)	1.0	1
Chloroethane	ND	(ug/Kg)	2.0	1
Chloroform	ND	(ug/Kg)	1.0	1
Chloromethane	ND	(ug/Kg)	1.0	1
2-Chlorotoluene	ND	(ug/Kg)	1.0	1
1-Chlorotoluene	ND	(ug/Kg)	1.0	1
cis-1,2-Dichloroethene	ND	(ug/Kg)	1.0	1
cis-1,3-Dichloropropene	ND	(ug/Kg)	1.0	1
1,2-Dibromo-3-chloropropane	ND	(ug/Kg)	2.0	1
Dibromochloromethane	ND	(ug/Kg)	1.0	1
Dibromoethane	ND	(ug/Kg)	2.0	1
1,2-Dichlorobenzene	ND	(ug/Kg)	1.0	1
1,3-Dichlorobenzene	ND	(ug/Kg)	1.0	1
1,4-Dichlorobenzene	ND	(ug/Kg)	1.0	1
Dichlorodifluoromethane	ND	(ug/Kg)	1.0	1
I,1-Dichloroethane	· ND	(ug/Kg)	1.0	1
1,1-Dichloroethene	ND	(ug/Kg)	1.0	1
1,2-Dichloropropane	ND	(ug/Kg)	1.0	1
1,3-Dichloropropane	ND	(ug/Kg)	1.0	1
2,2-Dichloropropane	ND	(ug/Kg)	1.0	1

Client:

# ENVIROTECH LABS

Blagg / BP

# EPA Method 8260B Volatile Organic Compounds by GC/MS

Grab #1 Sample ID: page 2 Laboratory Number: 35716 Concentration Det. Dilution **Parameter** (ug/Kg) Units Limit **Factor** 1,1-Dichloropropene ND 1.0 (ug/Kg) 1 Hexachlorobutadiene ND (ug/Kg) 1.0 Isopropylbenzene ND (ug/Kg) 1.0 4-isopropyitoluene 1.65 (ug/Kg) 1.0 Methylene Chloride ND (ug/Kg) 3.0 n-Butylbenzene 4.18 (ug/Kg) 1.0 n-Propylbenzene 1.09 1.0 (ug/Kg) sec-Butylbenzene 1.32 (ug/Kg) 1.0 Styrene ND 1.0 (ug/Kg) tert-Butylbenzene 2.12 (ug/Kg) 1.0 Tetrachloroethene (PCE) ND (ug/Kg) 1.0 1,1,1,2-Tetrachioroethane ND (ug/Kg) 1.0 1,1,2,2-Tetrachloroethane ND (ug/Kg) 1.0 trans-1,2-Dichloroethene ND (ug/Kg) 1.0 trans-1,3-Dichloropropene ND 1.0 (ug/Kg)

Surrogates:			Rec. Limits	
Dibromofluoromethane	99.6	% Recovery	78.6-115	1
1,2-Dichloroethane-d4	100.0	% Recovery	74.6-123	1
Toluene-d8	99.5	% Recovery	84.2-115	1
4-Bromofluorobenzene	99.9	% Recovery	78.6-115	1

ND

ND

ND

ND

ND

ND

ND

ND

(ug/Kg)

(ug/Kg)

(ug/Kg)

(ug/Kg)

(ug/Kg)

(ug/Kg)

(ug/Kg)

(ug/Kg)

1.0

1.0

1.0

1.0

1.0

1.0

2.0

2.0

ND = Parameter not detected at the stated detection limit.

References:

Trichloroethene (TCE)

**Trichlorofluoromethane** 

1,2,3-Trichlorobenzene

1.2.4-Trichlorobenzene

1,1,1-Trichloroethane

1,1,2-Trichioroethane

Vinyl Chloride

1,2,3-Trichloropropane

Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992.

Method 8260, Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Comments:

Ulibarri 3M.

Analyst C. Coleman

Mistere n Walters
Review



# EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Grab #1	Date Reported:	01-13-06
Laboratory Number:	35716	Date Sampled:	01-11-06
Chain of Custody No:	15360	Date Received:	01-12-06
Sample Matrix:	Solid .	Date Extracted:	01-12-06
Preservative:	Cool	Date Analyzed:	01-13-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.7	0.2
Diesel Range (C10 - C28)	5,880	0.1
Total Petroleum Hydrocarbons	5,880	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Ulibarri 3M.

Analyst Commence of the Analyst

Review Wasters

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. Santa Fe, NM 87505

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

1. RCRA Exempt: Non-Exempt: 🗵	4. Generator: Halliburton Energy Services, Inc.					
Verbal Approval Received: Yes & No: 1 Brandon Powell & Brook Joseph w/ OCD on 9/7/06	5. Originating Site: 210 Lorena Ave. (Halliburton facility)					
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:					
3. Address of Facility Operator:  JFJ Landfarm  C/o, Industrial Ecosystems Inc.  P.O. Box 2043  Farmington, NM 87499	8. State: NM					
7. Location of Material (Street Address or ULSTR) 410 Lorena Ave. Farmington, NM 87401	:					
9. Circle One:	5.com.4x49.com	And high and high are seen and				
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: Unused drilling mud (liquid/solid). Bill of Lading sheet and MSDS sheets attached for: AQUAGEL GOLD SEAL, BORE-HIB, PAC-R, FILTER-CHEK, EZ-MUD, and BARAZAN D.  Estimated Volume 20 bbls Known Volume (to be entered by the operator at the end of the haul)						
BRIEF DESCRIPTION OF MATERIAL: Unused drilling mud (liquid/solid). Bill of AQUAGEL GOLD SEAL, BORE-HIB, PAC-R, FILTER-CHEK, EZ-MUD, and B.	of Lading sheet and MS ARAZAN D.	A STATE OF THE STA				
BRIEF DESCRIPTION OF MATERIAL: Unused drilling mud (liquid/solid). Bill of AQUAGEL GOLD SEAL, BORE-HIB, PAC-R, FILTER-CHEK, EZ-MUD, and B.	of Lading sheet and MS ARAZAN D. the end of the haul)	A STATE OF THE STA				
BRIEF DESCRIPTION OF MATERIAL: Unused drilling mud (liquid/solid). Bill of AQUAGEL GOLD SEAL, BORE-HIB, PAC-R, FILTER-CHEK, EZ-MUD, and B. Estimated Volume 20 bbls. Known Volume (to be entered by the operator at SIGNATURE	of Lading sheet and MS ARAZAN D. the end of the haul)	DS sheets attached for:				
BRIEF DESCRIPTION OF MATERIAL: Unused drilling mud (liquid/solid). Bill of AQUAGEL GOLD SEAL, BORE-HIB, PAC-R, FILTER-CHEK, EZ-MUD, and B. Estimated Volume 20 bbls. Known Volume (to be entered by the operator at SIGNATURE Waste Management Facility Authorized Agent	of Lading sheet and MS ARAZAN D. the end of the haul)	DS sheets attached for:				

# HALLIBURTON

PAGE: 1 of 1

# STRAIGHT BILL OF LADING

CARRIER:			***************************************	Shipper's	No:	:	
Carrier/Truck/Trailer No:				BOL No: B00006468		46843	
nergeno Non-Em	y Contac ergency Sh	e <b>t Num</b> ipment h	ber: 1-281-575-5000 quiries call 1345123541 during normal business how	113			3
tined as i for the co tually ago perty, the right Class is a mot ent) in eff	ndicated be outract) as to come of every ser sification for carrier section the	elow, whatever to continue to be office to be office to shipment, date of sl	erty described below in apparent good order, except as a chisaid carrier (the word carrier being understood through the usual place of delivery at said destination, if o er of all or any of said property over all or any portion of performed hereunder shall be subject of all terms and in the date hereof, if this is a rail or rail-water shipment, except if subject to individual determined rates or continued. Carrier hereby certifies that it is familiar with tation of this shipment, and the said terms and condition	nighout this contr n its route, other of said route to de- conditions of the or (2) in the National tracts that had be all the terms and	act as meaning wise to deliver stination, and as Uniform dome onal Motor Frei en agreed upon conditions of t	any person to another of to each par stic Struight ght Classific in writing he said Bill	or corporation in possession of the pro- carrier on the route to said destination, my at anytime interested in all or any of a Bill of Lading set forth(1) in the Unif- cationor tarilf in effect on the date here between the shipper and the carrier(or of Lading, set forth in the classification
From: Addres	i5:			Date:	09/05/06		
Shippe	al to			Dest ID:			
	ν Addres	ς,		Phone:			
20	,	•		Contact	:		
lo. kg	Pkg Type	НМ	Description of articles, special marks and e		Weight/Volui Subject to change	ne	COLLECTION OF CHARGES
1.0	0 1		201597 BA.FILTER-CHEK - 50 LB BAG		50.4	8J 007	Subject to section? of terms and conditions If this alignment is to be delivered to the consigner
1.0			NOT RESTRICTED 201616 BA.BARAZAN D - 25 LB BAG			500 LB	without recourse on the consignor, the consignor shall sign the following statement.
1.0			NOT RESTRICTED 201215 BA.EZ-MUD - 5 GAL CAN			500 LB	The carrier shall not make delivery of this shipment without payment of freight and all
1.0			NOT RESTRICTED 442358 HA.BORE-HIB - 5 GAL CAN		60.0	DOC LB	inter lawful charges.
1.0	0 1		NOT RESTRICTED 201319 BA, PAC R - 50 LB BAG		50.	500 LB	Signature of Consignor
1.0	0 1		NOT RESTRICTED 200585 BA.AQUAGEL GOLDSEAL - 50 LB H NOT RESTRICTED	AG	50.3	500 LB	FREIGHT CHARGES Prepaid unless otherwise marked,
6.0	0		Totals:		282.5	00 LB	DECLARED VALUE  NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property which is hereby specifically stated by the shipped to be not exceeding.
		-					S Per
	ghts listed do			Hazmat Reg	No. 06050	06 003 0	020
pecial li	nstruction	ns:		T A A			-
Loaded	by:		Received by:		***************************************	Date:	
Consign	nor Sign	nature		Carrier Sig	mature	······································	· · · · · · · · · · · · · · · · · · ·
No.of Pieces: Date:			Tîme:				
			c articles are properly classified, described, puckaged partment of Transportation.	, marked, and lat	seled, and are i	n proper co	nditions for transportation according
	·		* * * * * * * * * * * * * * * * * * *				

# HALLIBURTON

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** 

AQUAGEL® GOLD SEAL

**Revision Date:** 

16-Feb-2004

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

Manufacturer/Supplier

AQUAGEL® GOLD SEAL

Synonyms:

None

Chemical Family:

Mineral Viscosifier

Application:

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

Chemical Compliance Telephone: 1-580-251-4335

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Crystalline silica, cristobalite	14464-46-1	0 - 1%	0.05 mg/m³	1/2 x <u>10 mg/m³</u> %SiO2 + 2
Crystalline silica, tridymite	15468-32-3	0 - 1%	0.05 mg/m ³	1/2 x <u>10 mg/m³</u> %SiO2 + 2
Crystalline silica, quartz	14808-60-7	1 - 5%	0.05 mg/m ³	10 mg/m³ %SiO2 + 2
Bentonite	1302-78-9	60 - 100%	Not applicable	Not applicable .

More restrictive exposure limits may be enforced by some states, agencies, or other authorities.

# 3. HAZARDS IDENTIFICATION

Hazard Overview

CAUTION! - ACUTE HEALTH HAZARD

May cause eye and respiratory irritation.

DANGER! - CHRONIC HEALTH HAZARD

Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease.

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposures below recommended exposure limits. Wear a NIOSH certified, European Standard EN 149, or equivalent respirator when using this product. Review the Material Safety Data Sheet (MSDS) for this product, which has been provided to your employer.

# 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

Under normal conditions, first aid procedures are not required.

Notes to Physician

Treat symptomatically.

# FIRE FIGHTING MEASURES

Not Determined Flash Point/Range (F): Not Determined Flash Point/Range (C): Not Determined Flash Point Method: 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 Not applicable.

Fire-Fighters

NFPA Ratings:

Health 0. Flammability 0. Reactivity 0

HMIS Ratings: Flammability 0, Reactivity 0, Health 0*

# **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary** 

Measures

None known.

Procedure for Cleaning /

Absorption

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

> AQUAGEL® GOLD SEAL Page 2 of 7

# 7. HANDLING AND STORAGE

Handling Precautions This product contains quartz, cristobalite, and/or tridymite which may become

airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below

recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

Storage Information Use good housekeeping in storage and work areas to prevent accumulation of dust.

Close container when not in use. Do not reuse empty container. Product has a shelf

life of 12 months.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Use approved industrial ventilation and local exhaust as required to maintain

exposures below applicable exposure limits listed in Section 2.

Respiratory Protection Wear a NIOSH certified, European Standard EN 149, or equivalent respirator when

using this product.

Hand Protection Normal work gloves.

Skin Protection Wear clothing appropriate for the work environment. Dusty clothing should be

laundered before reuse. Use precautionary measures to avoid creating dust when

removing or laundering clothing.

Eye Protection Wear safety glasses or goggles to protect against exposure.

Other Precautions None known.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: Tan
Odor: Mild earthy
pH: 8-10

Specific Gravity @ 20 C (Water=1): 2.6

Density @ 20 C (lbs./gallon): Not Determined

Bulk Density @ 20 C (lbs/ft3): 50-73

Boiling Point/Range (F): Not Determined Boiling Point/Range (C): Not Determined Not Determined Freezing Point/Range (F): Not Determined Freezing Point/Range (C): Vapor Pressure @ 20 C (mmHg): Not Determined Vapor Density (Air=1): Not Determined Percent Volatiles: Not Determined Not Determined Evaporation Rate (Butyl Acetate=1): Insoluble

Solubility in Water (g/100ml): Insoluble
Solubility in Solvents (g/100ml): Not Determined

VOCs (lbs./gallon): Not Determined

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistrokes):

Not Determined

Not Determined

Partition Coefficient/n-Octanol/Water: Not Determined Molecular Weight (g/mole): Not Determined

## 10. STABILITY AND REACTIVITY

Stability Data:

Stable

Hazardous Polymerization:

Will Not Occur

Conditions to Avoid

None anticipated

Incompatibility (Materials to

Avoid)

Hydrofluoric acid.

**Hazardous Decomposition** 

**Products** 

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or

cristobalite (1470 C).

**Additional Guidelines** 

Not Applicable

#### 11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure

Eye or skin contact, inhalation.

Inhalation

Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity" subsection below).

Skin Contact

May cause mechanical skin irritation.

**Eve Contact** 

May cause eve irritation.

Ingestion

None known

**Aggravated Medical Conditions** 

Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to quartz dust.

Chronic Effects/Carcinogenicity

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica of the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

Other Information

For further information consult "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume

155, pages 761-768 (1997).

**Toxicity Tests** 

Oral Toxicity:

Not determined

**Dermal Toxicity:** 

Not determined

Inhalation Toxicity:

Not determined

Primary Irritation Effect:

Not determined

Carcinogenicity

Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June

1997).

Genotoxicity:

Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

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:

**Chemical Fate Information** 

Not determined

Not determined

Other Information

Not applicable

# **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.

### TRANSPORT INFORMATION

### **Land Transportation**

DOT

Not restricted

Canadian TDG

Not restricted

**ADR** Not restricted

AQUAGEL® GOLD SEAL Page 5 of 7

## HALLIBURTON

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** 

**BORE-HIB** 

Revision Date:

14-Dec-2005

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

**BORE-HIB** 

Synonyms:

Application:

None

**Chemical Family:** 

Blend Additive

Manufacturer/Supplier

Baroid Orilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

Chemical Compliance

Telephone: 1-580-251-4335

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Glycerine	56-81-5	10 - 30%	10 mg/m ³	15 mg/m ³
Silicate salt		30 - 60%	Not applicable	Not applicable

### 3. HAZARDS IDENTIFICATION

Hazard Overview

May cause skin and respiratory irritation. May be harmful if swallowed. May cause

severe eye imitation.

# 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

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

BORE-HIB Page 1 of 5

# FIRE FIGHTING MEASURES

Flash Point/Range (F):

> 351

Flash Point/Range (C):

> 177

Flash Point Method:

Not Determined

Autoignition Temperature (F): Autoignition Temperature (C): Not Determined 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 Not applicable,

Fire-Fighters

NFPA Ratings: HMIS Ratings:

Health 3, Flammability 1, Reactivity 0

Flammability 1, Reactivity 0, Health 3

#### **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Spills of this product are very slippery. Use appropriate protective equipment.

**Environmental Precautionary** 

Prevent from entering sewers, waterways, or low areas.

Measures

Procedure for Cleaning /

Absorption

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials.

Scoop up and remove.

# HANDLING AND STORAGE

**Handling Precautions** 

Avoid contact with eyes, skin, or clothing. Avoid breathing mist. Material is slippery

underfoot.

Storage Information

Store in a cool well ventilated area. Keep container closed when not in use. Product has a shelf life of 36 months. Store at temperatures between 40 and 90 F (5 and 35

### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** 

Use in a well ventilated area.

Respiratory Protection

Not normally needed. But if significant exposures are possible then the following

respirator is recommended: Dust/mist respirator. (95%)

**Hand Protection** 

Impervious rubber gloves.

Skin Protection

Full protective chemical resistant clothing. 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.

### PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Liquid

Color: Odor:

Dark Yellow Mild

BORE-HIB Page 2 of 5 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 (centipolse):

Viscosity, Kinematic @ 20 C (centistrokes): Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

11.9

1.36

11.33

Not Determined

212

Not Determined

Not Determined

Not Determined

Not Determined Not Determined

Not Determined

Miscible

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

Contact with certain metals produces hydrogen gas.

Incompatibility (Materials to

Avoid)

Amphoteric metals such as aluminum, magnesium, lead, tin, or zinc.

**Hazardous Decomposition** 

**Products** 

Flammable hydrogen gas.

**Additional Guidelines** 

Not Applicable

# 11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure

Eye or skin contact, inhalation.

Inhalation

May cause respiratory irritation.

Skin Contact

May cause skin irritation.

**Eye Contact** 

Causes severe eye irritation May cause eye burns.

Ingestion

Irritation of the mouth, throat, and stomach.

**Aggravated Medical Conditions** 

Skin disorders.

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:** 

Not determined

**Dermal Toxicity:** 

Not determined

Inhalation Toxicity:

Not determined

BORE-HIB Page 3 of 5 Primary Irritation Effect:

Not determined

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

#### **ECOLOGICAL INFORMATION**

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

Not applicable

**Bio-accumulation** 

Not Determined

#### **Ecotoxicological Information**

Acute Fish Toxicity:

May be toxic to aquatic life.

Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity:

Not determined

**Chemical Fate Information** 

Not determined

Other Information

Not applicable

#### 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.

Transport with all closures in place. Return for reuse or disposal according to

national or local regulations.

#### 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

BORE-HIB Page 4 of 5

#### HALLIBURTON

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** 

PAC®-R

Revision Date:

09-Nov-2004

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

PAC®-R

Synonyms:

None

Chemical Family:

Polysaccharide

Application:

Fluid Loss Additive

Manufacturer/Supplier

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

Chemical Compliance

Telephone: 1-580-251-4335

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA	
Cellulose derivative	•	60 - 100%	Not applicable	Not applicable	]

#### 3. HAZARDS IDENTIFICATION

Hazard Overview

May cause eye, skin, and respiratory imitation. Airborne dust may be explosive.

#### 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

Under normal conditions, first aid procedures are not required.

Notes to Physician

Not Applicable

#### FIRE FIGHTING MEASURES

Flash Point/Range (F): Flash Point/Range (C): 430 221

Flash Point Method:

Not Determined

Autoignition Temperature (F): Autoignition Temperature (C): 752 400

Flammability Limits in Air - Lower (%):

Not Determined

Flammability Limits in Air - Upper (%):

Not Determined

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards

Decomposition in fire may produce toxic gases. Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping

practices are required to minimize this potential.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

NFPA Ratings: HMIS Ratings:

Health 1, Flammability 1, Reactivity 0 Flammability 1, Reactivity 0, Health 1

# **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Avoid creating and breathing dust.

**Environmental Precautionary** 

Measures

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning /

Absorption

Scoop up and remove.

#### HANDLING AND STORAGE

**Handling Precautions** 

Avoid creating or inhaling dust. Avoid dust accumulations. Slippery when wet.

Storage Information

Store away from oxidizers, Store in a dry location, Product has a shelf life of 12

months.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**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:

Dust/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.

#### PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Solid Powder

PAC®-R Page 2 of 5 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 Density (Air=1): Percent Volatiles:

Solubility in Water (g/100ml):

Solubility in Solvents (g/100ml):

Viscosity, Dynamic @ 20 C (centipoise): Viscosity, Kinematic @ 20 C (centistrokes):

Molecular Weight (g/mole):

Vapor Pressure @ 20 C (mmHg):

Evaporation Rate (Butyl Acetate=1):

VOCs (lbs./gallon):

Partition Coefficient/n-Octanol/Water:

White to off white

Odorless 6.5-9 (1%)

1.6 Not Determined

40-55

Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined

Not Determined

Soluble 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** 

None known.

Incompatibility (Materials to

(biovA

Strong oxidizers.

Hazardous Decomposition

**Products** 

Carbon monoxide and carbon dioxide

**Additional Guidelines** 

Not Applicable

#### 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 mild 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:

LD50: 16,000 mg/kg (Rat)

**Dermal Toxicity:** 

Not determined

PAC®-R Page 3 of 5 Inhalation Toxicity:

Not determined

Primary Irritation Effect:

Not determined

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

#### 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

BOD(5 Day): 0 mg/g

COD: 900 mg/l

Bio-accumulation

Not Determined

#### **Ecotoxicological Information**

Acute Fish Toxicity:

TLM96: 27000 ppm (Oncorhynchus mykiss)

Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity:

Not determined

**Chemical Fate Information** 

Not determined

Other Information

Not applicable

#### 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

PAC@-R Page 4 of 5

#### 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

Not applicable.

Reportable Spill Quantity For This Product

rioduci

**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

**Un-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 Chemical Compliance 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.

c user,

***END OF MSDS***

PAC®-R Page 5 of 5

#### HALLIBURTON

# MATERIAL SAFETY DATA SHEET

Product Trade Name:

FILTER-CHEK®

**Revision Date:** 

16-Feb-2004

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

FILTER-CHEK®

Synonyms:

None

Chemical Family: Application:

Modified Starch Fluid Loss Additive

Manufacturer/Supplier

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

Chemical Compliance Telephone: 1-580-251-4335

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Modified starch		60 - 100%	Not applicable	Not applicable

#### 3. HAZARDS IDENTIFICATION

Hazard Overview

No significant hazards expected. Airborne dust may be explosive.

#### 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

Under normal conditions, first aid procedures are not required.

Notes to Physician

Not Applicable

Measure Incl.		I. Drift True		Vertical Local Coordinates		Dogleg Lease Calls			Global Coordinates		
Depth (ft)	Angle (Deg)	Direction (Deg)	Vertical Depth	Section (ft)	N-S (ft)	E-W (ft)	Severit (°/100ft)	FNL-FSL (ft)	FEL-FWL (ft)	Grid Y (ft)	Grid X (ft)
							<u> </u>				
6100.00	90.000	136.714	3914.00	2390.94	1740.31 S	1639.48 E	0.00	4160.31 FNL	4224.48 FWL	2151012.78 N	679807.28 E
6200.00	90.000	136.714	3914.00	2490.94	1813.10 S	1708.05 E	0.00	4233.10 FNL	4293.05 FWL	2150940.42 N	679876.30 E
6300.00	90.000	136.714	3914.00	2590.94	1885.88 S	1776.62 E	0.00	4305.88 FNL	4361.62 FWL	2150868.07 N	679945.33 E
6400.00	90.000	136.714	3914.00	2690.94	1958.67 S	1845.19 E	0.00	4378.67 FNL	4430.19 FWL	2150795.71 N	680014.36 E
6500.00	90.000	136.714	3914.00	2790.94	2031.46 S	1913.77 E	0.00	4451.46 FNL	4498.77 FWL	2150723.36 N	680083.39 E
6600.00	90.000	136.714	3914.00	2890.94	2104.25 S	1982.34 E	0.00	4524.25 FNL	4567.34 FWL	2150651.00 N	680152.41 E
6700.00	90.000	136.714	3914.00	2990.94	2177.03 S	2050.91 E	0.00	4597.03 FNL	4635.91 FWL	2150578.65 N	680221.44 E
6800.00	90.000	136.714	3914.00	3090.94	2249.82 S	2119.48 E	0.00	4669.82 FNL	4704.48 FWL	2150506.29 N	680290.47 E
6900.00	90.000	136.714	3914.00	3190.94	2322.61 S	2188.05 E	0.00	4742.61 FNL	4773.05 FWL	2150433.94 N	680359.50 E
7000.00	90.000	136.714	3914.00	3290.94	2395.40 S	2256.62 E	0.00	4815.40 FNL	4841.62 FWL	2150361.58 N	680428.52 E
7100.00	90.000	136.714	3914.00	3390.94	2468.19 S	2325.19 E	0.00	4888.19 FNL	4910.19 FWL	2150289.23 N	680497.55 E
7200.00	90.000	136.714	3914.00	3490.94	2540.97 S	2393.76 E	0.00	4960.97 FNL	4978.76 FWL	2150216.88 N	680566.58 E
7300.00	90.000	136.714	3914.00	3590.94	2613.76 S	2462.33 E	0.00	5033.76 FNL	5047.33 FWL	2150144.52 N	680635.61 E
7400.00	90.000	136.714	3914.00	3690.94	2686.55 S	2530.90 E	0.00	5106.55 FNL	5115.90 FWL	2150072.17 N	680704.64 E
7500.00	90.000	136.714	3914.00	3790.94	2759.34 S	2599.47 E	0.00	5179.34 FNL	5184.47 FWL	2149999.81 N	680773.66 E
7600.00	90.000	136.714	3914.00	3890.94	2832.12 S	2668.04 E	0.00	5252.12 FNL	5253.04 FWL	2149927.46 N	680842.69 E
l Depth at 7	7621.81ft	t, 6.13" O	pen Hole								
7621.81	90.000	136.714	3914.00	3912.75	2848.00 S	2683.00 E	0.00	5268.00 FNL	5268.00 FWL	2149911.68 N	680857.75 E

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to True North. Vertical depths are relative to RKB(7018`+12`KB). Northings and Eastings are relative to Wellhead.

Based upon Minimum Curvature type calculations, at a Measured Depth of 7621.81ft., The Bottom Hole Displacement is 3912.75ft., in the Direction of 136.714° (True).

#### FIRE FIGHTING MEASURES

Flash Point/Range (F): Not Determined Flash Point/Range (C): Not Determined Not Determined Flash Point Method: 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

Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards

Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping practices are required to minimize this

potential. Decomposition in fire may produce toxic gases.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

NFPA Ratings: HMIS Ratings:

Health 0, Flammability 0, Reactivity 0 Flammability 0, Reactivity 0, Health 0

#### **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary** 

None known.

Measures

Procedure for Cleaning /

Absorption

Scoop up and remove.

#### HANDLING AND STORAGE

**Handling Precautions** 

Avoid creating or inhaling dust. Avoid dust accumulations.

Storage Information

Store away from oxidizers. Store in a cool, dry location.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** 

Use in a well ventilated area.

Respiratory Protection

Not normally needed. But if significant exposures are possible then the following

respirator is recommended:

Dust/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:** 

Solid

Color: Odor:

Off white Starch

pH:

11.5 FILTER-CHEK® Page 2 of 5

M	leasure	incl.	Drift	True	Vertical	Local Co	ordinates	Dogleg	Lease	Calls	Global Co	ordinates
	Depth (ft)	Angle (Deg)	Direction (Deg)	Vertical Depth	Section (ft)	N-S (ft)	E-W (ft)	Severit (°/100ft)	FNL-FSL (ft)	FEL-FWL (ft)	Grid Y (ft)	Grid X (ft)
Top Coal Ir	nt	,										
	3992.22 4000.00	66.683 67.616	136.714 136.714	3875.00 3878.02	288.48 295.64	209.98 S 215.19 S	197.81 E 202.73 E	12.00 12.00	2629.98 FNL 2635.19 FNL	2782.81 FWL 2787.73 FWL	2152534.00 N 2152528.81 N	678356.00 E 678360.94 E
7" Casin	ng											
	4079.28	77.130	136.714	3902.00	371.12	270.13 S	254.48 E	12.00	2690.13 FNL	2839.48 FWL	2152474.20 N	678413.04 E
Top Tgt	Coal											
	4093.71 4100.00	78.861 79.616	136.714 136.714	3905.00 3906.17	385.23 391.41	280.40 S 284.90 S	264.15 E 268.39 E	12.00 12.00	2700.40 FNL 2704.90 FNL	2849.15 FWL 2853.39 FWL	2152464.00 N 2152459.52 N	678422.78 E 678427.05 E
End of E	Build at	4186.531	t					•				
	4186.53	90.000	136.714	3913.99	477.46	347.54 S	327.40 E	12.00	2767.54 FNL	2912.40 FWL	2152397.26 N	678486.45 E
	4200.00	90.000	136.714	3913.99	490.94	357.34 S	336.64 E	0.00	2777.34 FNL	2921.64 FWL	2152387.51 N	678495.75 E
	4300.00	90.000	136.714	3913.99	590.94	430.13 S	405.21 E	0.00	2850.13 FNL	2990.21 FWL	2152315.16 N	678564.78 E
	4400.00	90.000	136.714	3913.99	690.94	502.92 S	473.78 E	0.00	2922.92 FNL	3058.78 FWL	2152242.80 N	678633.80 E
•	4500.00	90.000	136.714	3913.99	790.94	575.70 S	542.35 E	0.00	2995.70 FNL	3127.35 FWL	2152170.45 N	678702.83 E
•	4600.00	90.000	136.714	3913.99	890.94	648.49 S	610.92 E	0.00	3068.49 FNL	3195.92 FWL	2152098.09 N	678771.86 E
	4700.00	90.000	136.714	3913.99	990.94	721.28 S	679.49 E	0.00	3141.28 FNL	3264.49 FWL	2152025.74 N	678840.89 E
	4800.00	90.000	136.714	3914.00	1090.94	794.07 S	748.06 E	0.00	3214.07 FNL	3333.06 FWL	2151953.38 N	678909.91 E
	4900.00	90.000	136.714	3914.00	1190.94	866.86 S	816.63 E	0.00	3286.86 FNL	3401.63 FWL	2151881.03 N	678978.94 E
!	5000.00	90.000	136.714	3914.00	1290.94	939.64 S	885.20 E	0.00	3359.64 FNL	3470.20 FWL	2151808.67 N	679047.97 E
	5100.00	90.000	136.714	3914.00	1390.94	1012.43 S	953.77 E	0.00	3432.43 FNL	3538.77 FWL	2151736.32 N	679117.00 E
:	5200.00	90.000	136.714	3914.00	1490.94	1085.22 S	1022.35 E	0.00	3505.22 FNL	3607.35 FWL	2151663.97 N	679186.03 E
:	5300.00	90.000	136.714	3914.00	1590.94	1158.01 S	1090.92 E	0.00	3578.01 FNL	3675.92 FWL	2151591.61 N	679255.05 E
:	5400.00	90.000	136.714	3914.00	1690.94	1230.79 S	1159.49 E	0.00	3650.79 FNL	3744.49 FWL	2151519.26 N	679324.08 E
:	5500.00	90.000	136.714	3914.00	1790.94	1303.58 S	1228.06 E	0.00	3723.58 FNL	3813.06 FWL	2151446.90 N	679393.11 E
;	5600.00	90.000	136.714	3914.00	1890.94	1376.37 S	1296.63 E	0.00	3796.37 FNL	3881.63 FWL	2151374.55 N	679462.14 E
	5700.00	90.000	136.714	3914.00	1990.94	1449.16 S	1365.20 E	0.00	3869.16 FNL	3950.20 FWL	2151302.19 N	679531.16 E
;	5800.00	90.000	136.714	3914.00	2090.94	1521.94 S	1433.77 E	0.00	3941.94 FNL	4018.77 FWL	2151229.84 N	679600.19 E
	5900.00	90.000	136.714	3914.00	2190.94	1594.73 S	1502.34 E	0.00	4014.73 FNL	4087.34 FWL	2151157.48 N	679669.22 E
ı	6000.00	90.000	136.714	3914.00	2290.94	1667.52 S	1570.91 E	0.00	4087.52 FNL	4155.91 FWL	2151085.13 N	679738.25 E

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):

Viscosity, Kinematic @ 20 C (centistrokes Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

Not Determined

Not Determined

30-40

Not Determined Not Determined Not Determined

Not Determined Not Determined Not Determined

Not Determined Not Determined

Soluble

Soluble

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

May cause allergic respiratory reaction.

Skin Contact

None known.

**Eye Contact** 

None known.

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:

Not determined

**Dermal Toxicity:** 

Not determined

Inhalation Toxicity:

Not determined

Primary Irritation Effect:

Not determined

FILTER-CHEK® Page 3 of 5 **Sperry Drilling Services** 

# Proposal Report for Sec. 11-T31N-R04W - Rosa Unit #369A - Plan 011806

Data Source: Mr. Gary Sizemore

Revised: 19 January, 2006

	Measure	incl.	Drift	ift True Vertical Local Coordinates Dogleg Lease Calls		Calls	Global Coordinates					
	Depth (ft)	Angle (Deg)	Direction (Deg)	Vertical Depth	Section (ft)	N-S (ft)	E-W (ft)	Severit (°/100ft)	FNL-FSL (ft)	FEL-FWL (ft)	Grid Y (ft)	Grid X (ft)
	0.00	0.000	0.000	0.00	0.00	0.00 N	0.00 E		2420.00 FNL	2585.00 FWL	2152742.73 N	678156.87 E
San Je	ose Fm											
	12.00	0.000	0.000	12.00	0.00	0.00 N	0.00 E	0.00	2420.00 FNL	2585.00 FWL	2152742.73 N	678156.87 E
9 5/8"	Casing											
	300.00	0.000	0.000	300.00	0.00	0.00 N	0.00 E	0.00	2420.00 FNL	2585.00 FWL	2152742.73 N	678156.87 E
Nacim	iento Fm											
	2150.00	0.000	0.000	2150.00	0.00	0.00 N	0.00 E	0.00	2420.00 FNL	2585.00 FWL	2152742.73 N	678156.87 E
Ojo Al	amo Ss											
	3325.00	0.000	0.000	3325.00	0.00	0.00 N	0.00 E	0.00	2420.00 FNL	2585.00 FWL	2152742.73 N	678156.87 E
Kick-C	off at 3436.	.53ft										·
	3436.53	0.000	0.000	3436.53	0.00	0.00 N	0.00 E	0.00	2420.00 FNL	2585.00 FWL	2152742.73 N	678156.87 E
Kirkla	nd Sh											
	3445.00	1.017	136.714	3445.00	0.08	0.05 S	0.05 E	12.00	2420.05 FNL	2585.05 FWL	2152742.67 N	678156.92 E
	3500.00	7.616	136.714	3499.81	4.21	3.07 S	2.89 E	12.00	2423.07 FNL	2587.89 FWL	2152739.68 N	678159.77 E
	3600.00	19.616	136.714	3596.83	27.71	20.17 S	19.00 E	12.00	2440.17 FNL	2604.00 FWL	2152722.67 N	678176.00 E
Fruitla	ınd Fm											
	3692.02	30.659	136.714	3680.00	66.74	48.58 S	45.76 E	12.00	2468.58 FNL	2630.76 FWL	2152694.44 N	678202.94 E
	3700.00	31.616	136.714	3686.83	70.87	51.58 S	48.59 E	12.00	2471.58 FNL	2633.59 FWL	2152691.45 N	678205.78 E
	3800.00	43.616	136.714	3765.90	131.79	95.93 S	90.37 E	12.00	2515.93 FNL	2675.37 FWL	2152647.37 N	678247.84 E
	3900.00	55.616	136.714	3830.57	207.83	151.27 S	142.51 E	12.00	2571.27 FNL	2727.51 FWL	2152592.35 N	678300.32 E

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

#### **ECOLOGICAL INFORMATION**

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

Readily 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

#### 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.

#### 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

Labels:

None

FILTER-CHEK® Page 4 of 5



# Williams Production Company New Mexico Rio Arriba County Sec. 11-T31N-R04W Rosa Unit #369A - Plan 011806

Revised: 19 January, 2006

# Halliburton Sperry-Drilling Proposal Report

#### 19 January, 2006

Data Source: Mr. Gary Sizemore

Surface Coordinates: 2152742.73 N, 678156.87 E (36° 54′ 52.5056" N, 107° 13′ 26.1232" W)

Grid Coordinate System: NAD27 New Mexico State Planes, Western Zone

Surface Coordinates relative to Global Coordinates: 647751.60 N, 380476.10 E (Grid) Surface Coordinates relative to NW Cor Sec 11: 2420.00 S, 2585.00 E (True)

Kelly Bushing Elevation: 7030.00ft above Mean Sea Level

Kelly Bushing Elevation: 12.00ft above Structure

Proposal Ref: pro9678

HALLIBURTON

**Sperry Drilling Services** 

#### **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

Not applicable.

Reportable Spill Quantity For This

**Product** 

**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

Un-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 Chemical Compliance at 1-580-251-4335.

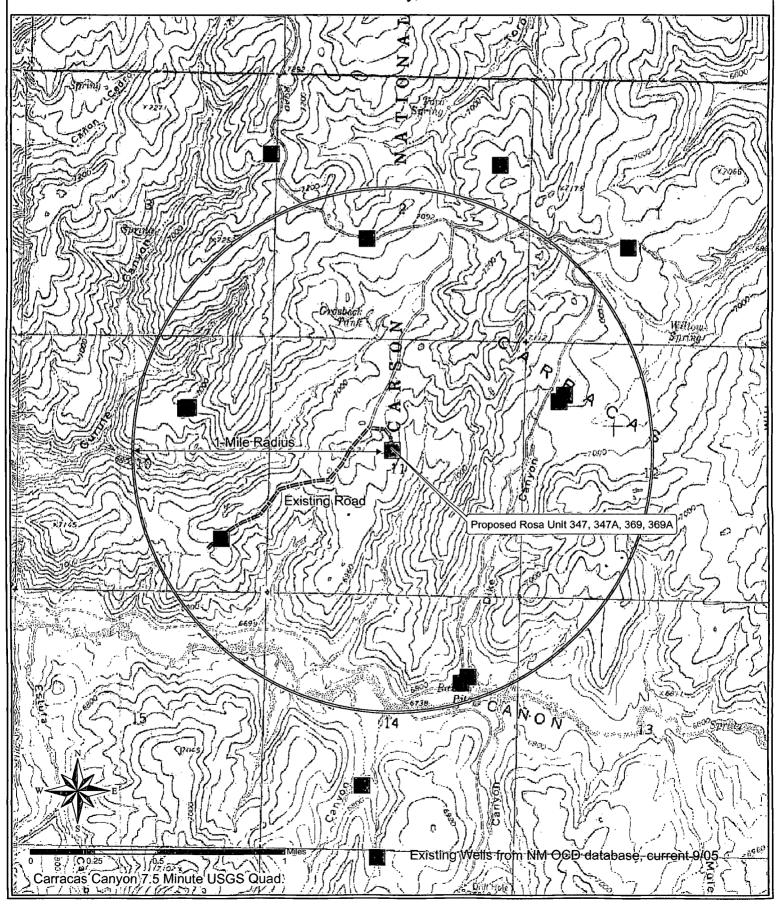
Disclaimer Statement

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***

FILTER-CHEK® Page 5 of 5

Figure 3: Existing Wells within a 1-Mile Radius of the Proposed Rosa Unit #347, 347A, 369 and 369A Williams Exploration and Production Company T31N, R04W, Section 11, NMPM Rio Arriba County, New Mexico



#### HALLIBURTON

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** 

**EZ-MUD®** 

Revision Date:

16-Feb-2004

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

EZ-MUD®

Synonyms:

Application:

None

Chemical Family:

Blend Shale Inhibitor

Manufacturer/Supplier

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

Chemical Compliance

Telephone: 1-580-251-4335

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Hydrotreated light petroleum	64742-47-8	10 - 30%	200 mg/m ³	Not applicable
distillate				

#### 3. HAZARDS IDENTIFICATION

**Hazard Overview** 

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and

other central nervous system effects. 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 give oxygen. Get medical attention.

Skin

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

contaminated shoes and discard.

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

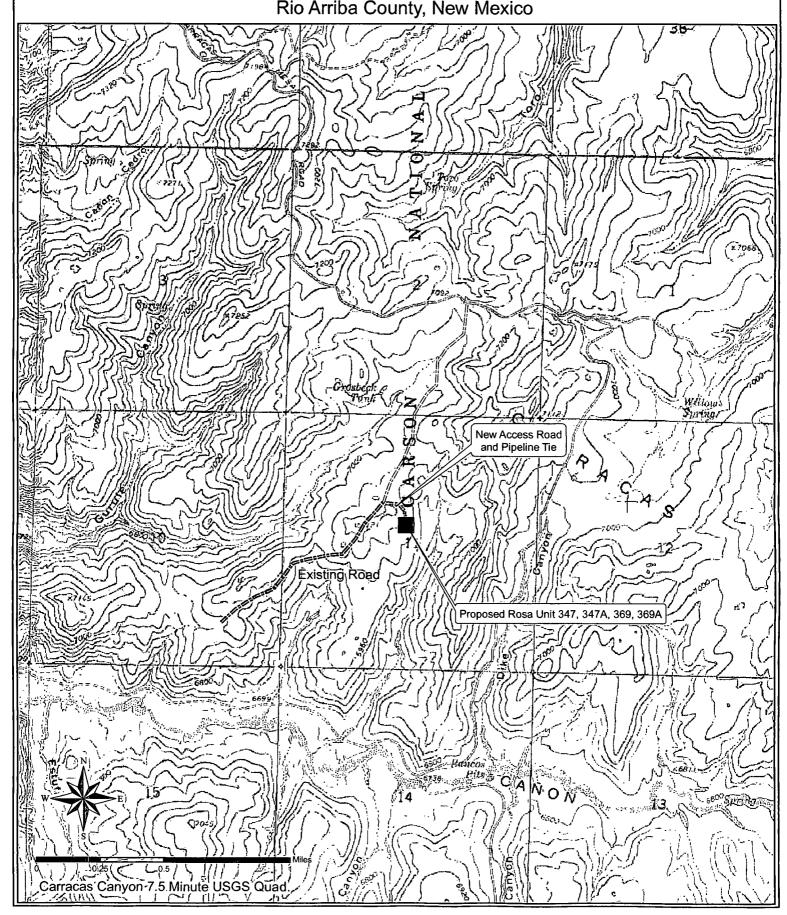
Get medical attention! If vomiting occurs, keep head lower than hips to prevent

aspiration.

Notes to Physician

Not Applicable

EZ-MUD® Page 1 of 6 Figure 2: Project Area Map
Williams Exploration and Production Company
Proposed Rosa Unit #347, 347A, 369 and 369A
Well Pad, Access Road and Pipeline Ties
T31N, R04W, Section 11, NMPM
Rio Arriba County, New Mexico



#### FIRE FIGHTING MEASURES

Flash Point/Range (F):

> 200Min: > 200

Flash Point/Range (C):

Not DeterminedMin: > 93

Flash Point Method: Autoignition Temperature (F): **PMCC** > 392

Autoignition Temperature (C):

> 200 Not Determined

Flammability Limits in Air - Lower (%): Flammability Limits in Air - Upper (%):

Not Determined

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards

Decomposition in fire may produce toxic gases. Use water spray to cool fire exposed

surfaces.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

NFPA Ratings:

Health 2. Flammability 1, Reactivity 0

HMIS Ratings:

Flammability 1, Reactivity 0, Health 2

#### **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.

Scoop up and remove.

#### 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 container closed when not in use.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** 

A well ventilated area to control dust levels. Local exhaust ventilation should be used

in areas without good cross ventilation.

Respiratory Protection

Organic vapor respirator with a dust/mist filter. In high concentrations, supplied air

respirator or a self-contained breathing apparatus.

**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.

#### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** 

Liquid

Color: Odor:

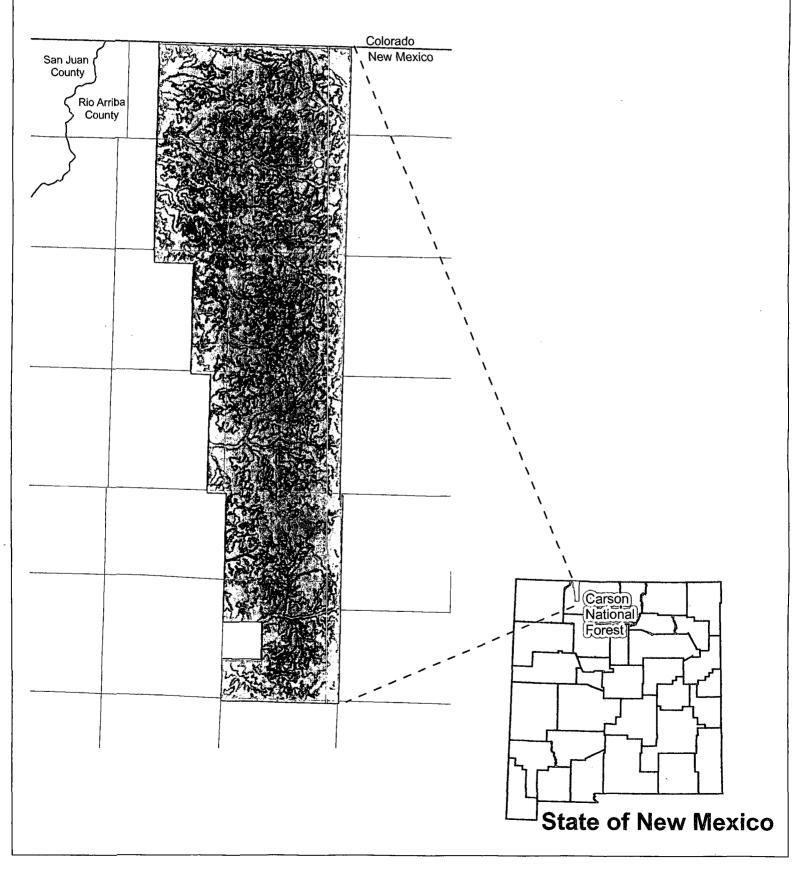
White to gray Mild hydrocarbon

pH:

6-8

EZ-MUD® Page 2 of 6

# Figure 1: Vicinity Map Williams Exploration and Production Company Proposed Rosa Unit #347, 347A, 369, 369A Jicarilla Ranger District, Carson National Forest T31N, R04W, Section 11, NMPM Rio Arriba County, New Mexico



Specific Gravity @ 20 C (Water=1):

8.3 Density @ 20 C (lbs./gallon): Not Determined Bulk Density @ 20 C (lbs/ft3):

Boiling Point/Range (F): Boiling Point/Range (C):

175 Not Determined Freezing Point/Range (F): Freezing Point/Range (C): Not Determined 0.002

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):

Not Determined

70

1.0

347

< 1 Partially soluble Not Determined

Not Determined Not Determined Not Determined Not Determined Not Determined

#### 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** 

Ammonia, Oxides of nitrogen, Carbon monoxide and carbon dioxide,

**Additional Guidelines** 

Not Applicable

#### 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 irritation.

**Eye Contact** 

May cause severe eye irritation.

Ingestion

Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue

blurred vision, sturred speech, giddiness, tremors and convulsions.

**Aggravated Medical Conditions** 

Lung disorders.

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** 

EZ-MUD® Page 3 of 6

#### 14. <u>Certification</u>:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Williams Production Company LLC, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to 18 U.S. Code 1001 for the filing of a false statement.

Date: 1-31-2006

Larry Higgins

Drlg COM

Williams Production Company, LLC

Oral Toxicity:

Not determined

**Dermal Toxicity:** 

Not determined

Inhalation Toxicity:

Not determined

Primary Irritation Effect:

Not determined

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

#### **ECOLOGICAL INFORMATION**

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

BOD(28 Day): 40% of COD

Bio-accumulation

Not Determined

#### **Ecotoxicological Information**

Acute Fish Toxicity:

TLM96: >1000 mg/l (Pimephales promelas)

Acute Crustaceans Toxicity:TLM48: 98 mg/l (Acartia tonsa)

Acute Algae Toxicity:

EC50: 16.70 mg/l (Skeletonema costatum)

**Chemical Fate Information** 

Not determined

Other Information

Not applicable

#### 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.

#### TRANSPORT INFORMATION

#### Land Transportation

DOT

Not restricted

Canadian TDG

Not restricted

**ADR** Not restricted

Air Transportation

ICAO/IATA Not restricted

Sea Transportation

EZ-MUD® Page 4 of 6

#### 10. Plans for Restoration of Surface:

When the well is abandoned, the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with the appropriate seed mixture.

If the well is productive, areas not used in production will be contoured and seeded with stipulated seed mixture. Production equipment will be painted the color designated by the surface managing agency. A below-grade tank will be used for production. See attached NMOCD form C-103.

#### 11. Surface Ownership:

The surface ownership of the proposed well pad, access road, and well-tie pipeline is the Carson National Forest.

#### 12. Other Information:

Refer to the archaeology and Environmental Assessment reports for a description of the soil characteristics and local flora and fauna.

There are no residents within a one-mile radius of the proposed action.

The proposed well pad should not impact any floodplains, riparian, springs, or stock ponds. There were no ephemeral washes that would be impacted.

The top 6" of soil material will be stripped and stockpiled on either side of the reserve pit and used for future reclamation.

# 13. <u>Lessee's or Operator's Representative:</u>

Larry Higgins
Drilling COM
Aztec, New Mexico 87410
Phone: (505 634-4208

#### **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

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

Not applicable.

Reportable Spill Quantity For This

Product

**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

D2B Toxic Materials

#### 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 Chemical Compliance at 1-580-251-4335.

#### 5. Water Supply:

Water for drilling and completion operations will be hauled by truck from various water sources within the area, mainly from Navajo Lake, NM and produced water from locations close to the proposed location. Reference BLM letter 3162.3-2.

#### 6. Source of Construction Materials:

No additional construction materials will be required to build the proposed location.

#### 7. Methods for Handling Waste Disposal:

- a. The drill cuttings, fluids and completion fluids will be placed in the reserve pit. Three sides of the reserve pit will be fenced prior to drilling. The reserve pit will be allowed to dry, and materials remaining in the reserve pit buried. The reserve pit will be backfilled, leveled and contoured so as to prevent any materials being carried into the watershed. Upon completion, the pad will be leveled, contoured and reseeded with the appropriate seed mixture.
- b. All garbage and trash will be placed in a metal trash basket. It will be hauled off and dumped in an approved land fill upon completion of operations.
- c. Portable toilets will be provided and maintained during drilling operations. See Plat #3 for location

## 8. Ancillary Facilities:

Ancillary facilities are to be based on well productivity. A pipeline plat is included as Plat #2.

# 9. Well Site Layout:

A cross section of the drill pad with approximate cuts, fills, and pad orientation is attached as Plat #1. Location of drilling equipment and rig orientation is also attached as Plat #3.

#### **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:** 

BARAZAN® D

Revision Date:

10-Mar-2005

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name:

BARAZAN® D

Synonyms:

None

Chemical Family: Application:

Polysaccharide

Viscosifier

Manufacturer/Supplier

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

Chemical Compliance

Telephone: 1-580-251-4335

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Xanthan gum	11138-66-2	60 - 100%	10 mg/m³	15 mg/ṁ ³

#### 3. HAZARDS IDENTIFICATION

**Hazard Overview** 

May cause eye irritation. Airborne dust may be explosive.

#### 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.

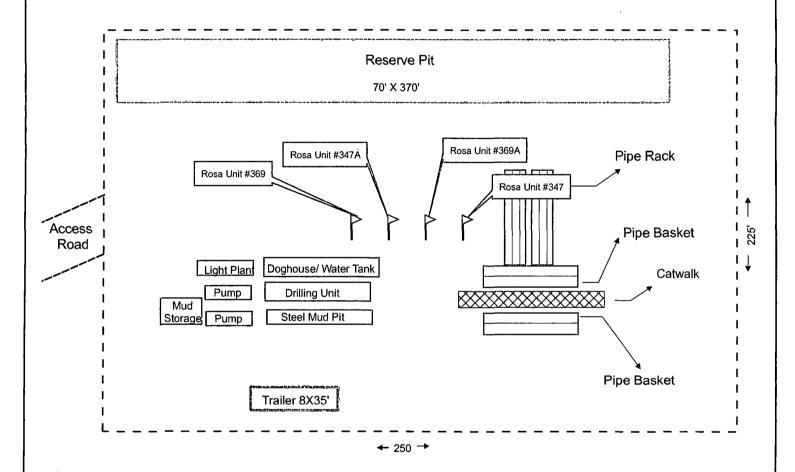
Ingestion

Under normal conditions, first aid procedures are not required.

Notes to Physician

Not Applicable

# Plat #3: Typical Well Diagram Williams Exploration and Production Company Proposed Rosa Unit #347, 347A, 369 and 369A Well Pad T31N, R04W, Section 11, NMPM Rio Arriba County, New Mexico





#### FIRE FIGHTING MEASURES

Flash Point/Range (F):

950

Flash Point/Range (C):

510

Flash Point Method:

Not Determined

Autoignition Temperature (F):

400

Autoignition Temperature (C):

204

Flammability Limits in Air - Lower (%):

Not Determined

Flammability Limits in Air - Lower (oz./ft3):

0.04 - 0.4

Flammability Limits in Air - Upper (%):

Not Determined

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards

Decomposition in fire may produce toxic gases. Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping

practices are required to minimize this potential.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

NFPA Ratings: HMIS Ratings:

Health 0, Flammability 1, Reactivity 0

Flammability 1, Reactivity 0, Health 0

#### **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment, Avoid creating and breathing dust.

**Environmental Precautionary** 

None known.

Measures

Procedure for Cleaning /

Scoop up and remove.

Absorption

#### HANDLING AND STORAGE

Handling Precautions

Slippery when wet. Avoid creating or inhaling dust.

Storage Information

Store away from oxidizers. Store in a cool, dry location. Product has a shelf life of 6

months.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** 

Use in a well ventilated area.

Respiratory Protection

Not normally needed. But if significant exposures are possible then the following

respirator is recommended:

Dust/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

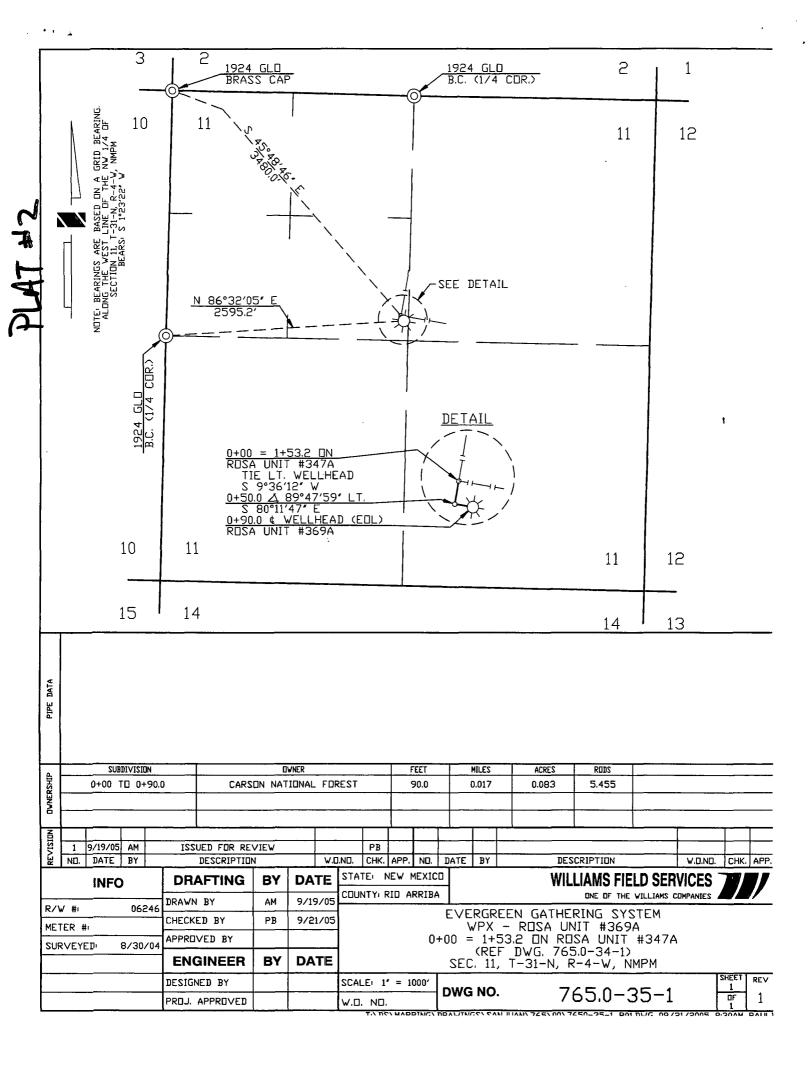
None known.

#### PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Powder

BARAZAN® D Page 2 of 5



#### 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

Acute Health Hazard Chronic 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

Not applicable.

Reportable Spill Quantity For This

**Product** 

**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

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

D2A Very Toxic Materials

Crystalline silica

#### 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 Chemical Compliance 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:** 

**BORE-HIB** 

**Revision Date:** 

14-Dec-2005

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

**BORE-HIB** 

Synonyms:

None Blend

Chemical Family: Application:

Additive

Manufacturer/Supplier

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

**Chemical Compliance** 

Telephone: 1-580-251-4335

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Glycerine	56-81-5	10 - 30%	10 mg/m ³	15 mg/m ³
Silicate salt		30 - 60%	Not applicable	Not applicable

#### 3. HAZARDS IDENTIFICATION

**Hazard Overview** 

May cause skin and respiratory irritation. May be harmful if swallowed. May cause

severe eye 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

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

DUPLICATE

#### FIRE FIGHTING MEASURES

Flash Point/Range (F): > 351 Flash Point/Range (C): > 177

Flash Point Method: Not Determined Not Determined **Autoignition Temperature (F):** 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 Not applicable.

Fire-Fighters

**NFPA Ratings: HMIS Ratings:** 

Health 3, Flammability 1, Reactivity 0 Flammability 1, Reactivity 0, Health 3

#### **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Spills of this product are very slippery. 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.

Scoop up and remove.

#### HANDLING AND STORAGE

**Handling Precautions** Avoid contact with eyes, skin, or clothing. Avoid breathing mist. Material is slippery

underfoot.

Storage Information Store in a cool well ventilated area. Keep container closed when not in use. Product

has a shelf life of 36 months. Store at temperatures between 40 and 90 F (5 and 35

C).

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** Use in a well ventilated area.

**Respiratory Protection** Not normally needed. But if significant exposures are possible then the following

> respirator is recommended: Dust/mist respirator. (95%)

**Hand Protection** Impervious rubber gloves.

**Skin Protection** Full protective chemical resistant clothing. Rubber apron.

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

Other Precautions Eyewash fountains and safety showers must be easily accessible.

#### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** 

Liquid Mild

Color:

Dark Yellow

Odor:

**BORE-HIB** Page 2 of 5 

 pH:
 11.9

 Specific Gravity @ 20 C (Water=1):
 1.36

 Density @ 20 C (lbs./gallon):
 11.33

Bulk Density @ 20 C (lbs/ft3): Not Determined

Boiling Point/Range (F): 212
Boiling Point/Range (C): 100

Freezing Point/Range (F):

Freezing Point/Range (C):

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1):

Percent Volatiles:

Not Determined

Not Determined

Not Determined

Evaporation Rate (Butyl Acetate=1):

Solubility in Water (g/100ml):

Not Determined
Miscible

Solubility in Solvents (g/100ml): Not Determined VOCs (lbs./gallon): Not Determined

Viscosity, Dynamic @ 20 C (centipoise): 63

Viscosity, Kinematic @ 20 C (centistrokes):

Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

Not Determined

Not Determined

#### 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid Contact with certain metals produces hydrogen gas.

Incompatibility (Materials to

Avoid)

Amphoteric metals such as aluminum, magnesium, lead, tin, or zinc.

Hazardous Decomposition

**Products** 

Flammable hydrogen gas.

Additional Guidelines Not Applicable

#### 11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure Eye or skin contact, inhalation.

**Inhalation** May cause respiratory irritation.

Skin Contact May cause skin irritation.

Eye Contact Causes severe eye irritation May cause eye burns.

**Ingestion** Irritation of the mouth, throat, and stomach.

Aggravated Medical Conditions Skin disorders.

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: Not determined

**Dermal Toxicity:** Not determined

Inhalation Toxicity: Not determined

BORE-HIB Page 3 of 5 **Primary Irritation Effect:** 

Not determined

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

# 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

Not applicable

**Bio-accumulation** 

Not Determined

### **Ecotoxicological Information**

**Acute Fish Toxicity:** 

May be toxic to aquatic life.

Acute Crustaceans Toxicity: Not determined **Acute Algae Toxicity:** 

Not determined

**Chemical Fate Information** 

Not determined

Other Information

Not applicable

# **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.

Transport with all closures in place. Return for reuse or disposal according to

national or local regulations.

# 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

**BORE-HIB** Page 4 of 5 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

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** 

und Not applicable.

**Reportable Spill Quantity For This** 

**Product** 

**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

One or more components listed.

NJ Right-to-Know Law

Does not apply.

PA Right-to-Know Law

One or more components listed.

**Canadian Regulations** 

Canadian DSL Inventory

All components listed on inventory.

WHMIS Hazard Class

D2B Toxic Materials

### 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 Chemical Compliance at 1-580-251-4335.

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***END OF MSDS***

BORE-HIB Page 5 of 5

# HALLIBURTON

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** 

PAC®-R

**Revision Date:** 

09-Nov-2004

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

PAC®-R

Synonyms:

None

**Chemical Family:** 

Polysaccharide

Application:

Fluid Loss Additive

Manufacturer/Supplier

Baroid Drilling Fluids

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

**Chemical Compliance** 

Telephone: 1-580-251-4335

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA	
Cellulose derivative		60 - 100%	Not applicable	Not applicable	

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** 

May cause eye, skin, and respiratory irritation. Airborne dust may be explosive.

### 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

Under normal conditions, first aid procedures are not required.

Notes to Physician

Not Applicable

DUPLICATE

# FIRE FIGHTING MEASURES

Flash Point/Range (F): Flash Point/Range (C):

430 221

Flash Point Method:

Not Determined

Autoignition Temperature (F): Autoignition Temperature (C): 752 400

Flammability Limits in Air - Lower (%):

Not Determined

Flammability Limits in Air - Upper (%):

Not Determined

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards

Decomposition in fire may produce toxic gases. Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping

practices are required to minimize this potential.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

**NFPA Ratings: HMIS Ratings:** 

Health 1, Flammability 1, Reactivity 0

Flammability 1, Reactivity 0, Health 1

### **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures 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** 

Avoid creating or inhaling dust. Avoid dust accumulations, Slippery when wet.

Storage Information

Store away from oxidizers. Store in a dry location. Product has a shelf life of 12

months.

### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**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:

Dust/mist respirator. (95%)

**Hand Protection** 

Normal work gloves.

**Skin Protection** 

Normal work coveralis.

Eye Protection

Wear safety glasses or goggles to protect against exposure.

Other Precautions

None known.

# PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** 

Solid Powder

PAC®-R Page 2 of 5 Color: White to off white

Odor: Odorless 6.5-9 (1%) pH:

Specific Gravity @ 20 C (Water=1): 1.6 Density @ 20 C (lbs./gallon): Not Determined

Bulk Density @ 20 C (lbs/ft3): 40-55

Not Determined Boiling Point/Range (F): Boiling Point/Range (C): Not Determined Freezing Point/Range (F): Not Determined Freezing Point/Range (C): Not Determined Vapor Pressure @ 20 C (mmHg): Not Determined Vapor Density (Air=1): Not Determined Percent Volatiles: Not Determined

**Evaporation Rate (Butyl Acetate=1):** Not Determined

Solubility in Water (g/100ml): Soluble

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

Molecular Weight (g/mole):

### STABILITY AND REACTIVITY

Stability Data: . Stable

**Hazardous Polymerization:** Will Not Occur

**Conditions to Avoid** None known.

Incompatibility (Materials to

Avoid)

Strong oxidizers.

**Hazardous Decomposition** 

**Products** 

Carbon monoxide and carbon dioxide.

**Additional Guidelines** Not Applicable

### **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 mild 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:** LD50: 16,000 mg/kg (Rat)

**Dermal Toxicity:** Not determined

> PAC®-R Page 3 of 5

**Inhalation Toxicity:** 

Not determined

**Primary Irritation Effect:** 

Not determined

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

# **ECOLOGICAL INFORMATION**

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

BOD(5 Day): 0 mg/g

COD: 900 mg/l

**Bio-accumulation** 

Not Determined

# **Ecotoxicological Information**

**Acute Fish Toxicity:** 

TLM96: 27000 ppm (Oncorhynchus mykiss)

Acute Crustaceans Toxicity: Not determined **Acute Algae Toxicity:** 

Not determined

**Chemical Fate Information** 

Not determined

Other Information

Not applicable

# **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

Labels:

None

### 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

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

**Un-Controlled** 

# 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 Chemical Compliance at 1-580-251-4335.

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***END OF MSDS***

PAC®-R Page 5 of 5

# HALLIBURTON

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** 

FILTER-CHEK®

**Revision Date:** 

16-Feb-2004

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

FILTER-CHEK®

Synonyms:

None

**Chemical Family:** 

Modified Starch

Application:

Fluid Loss Additive

Manufacturer/Supplier

**Baroid Drilling Fluids** 

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

**Chemical Compliance** 

Telephone: 1-580-251-4335

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Modified starch		60 - 100%	Not applicable	Not applicable

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** 

No significant hazards expected. Airborne dust may be explosive.

### 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

Under normal conditions, first aid procedures are not required.

Notes to Physician

Not Applicable

DUPLICATE

# 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

Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping practices are required to minimize this

potential. Decomposition in fire may produce toxic gases.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

**NFPA Ratings: HMIS Ratings:** 

Health 0, Flammability 0, Reactivity 0 Flammability 0, Reactivity 0, Health 0

# **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary** 

Measures

None known.

Procedure for Cleaning /

Absorption

Scoop up and remove.

### 7. HANDLING AND STORAGE

**Handling Precautions** 

Avoid creating or inhaling dust. Avoid dust accumulations.

Storage Information

Store away from oxidizers. Store in a cool, dry location.

# **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** 

Use in a well ventilated area.

Respiratory Protection

Not normally needed. But if significant exposures are possible then the following

respirator is recommended: Dust/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.

### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** 

Color:

Odor: pH:

Solid

Off white Starch 115

FILTER-CHEK® Page 2 of 5

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):

Not Determined Not Determined

30-40

Not Determined

Not Determined

Not Determined Not Determined

Not Determined

Not Determined

Not Determined Not Determined

Soluble

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

May cause allergic respiratory reaction.

**Skin Contact** 

None known.

**Eye Contact** 

None known.

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:** 

Not determined

**Dermal Toxicity:** 

Not determined

**Inhalation Toxicity:** 

Not determined

**Primary Irritation Effect:** 

Not determined

FILTER-CHEK® Page 3 of 5

Carcinogenicity

Not determined

**Genotoxicity:** 

Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

# 12. **ECOLOGICAL INFORMATION**

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

Readily 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

# **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.

# 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

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** 

Not applicable.

**Reportable Spill Quantity For This** 

**Product** 

**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** 

**Un-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 Chemical Compliance 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:** 

**EZ-MUD®** 

**Revision Date:** 

16-Feb-2004

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

**EZ-MUD®** 

Synonyms:

None

Chemical Family:

Blend

Application:

Shale Inhibitor

Manufacturer/Supplier

**Baroid Drilling Fluids** 

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

**Chemical Compliance** 

Telephone: 1-580-251-4335

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Hydrotreated light petroleum	64742-47-8	10 - 30%	200 mg/m ³	Not applicable
distillate				

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** 

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and

other central nervous system effects. 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 give oxygen. Get medical attention.

Skin

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

contaminated shoes and discard.

**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

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

aspiration.

**Notes to Physician** 

Not Applicable

DUPLICATE

# **FIRE FIGHTING MEASURES**

Flash Point/Range (F):

> 200Min: > 200

Flash Point/Range (C):

Not DeterminedMin: > 93

Flash Point Method:

**PMCC** 

Autoignition Temperature (F): **Autoignition Temperature (C):**  > 392 > 200

Flammability Limits in Air - Lower (%): Flammability Limits in Air - Upper (%):

Not Determined Not Determined

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards

Decomposition in fire may produce toxic gases. Use water spray to cool fire exposed

surfaces.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

**NFPA Ratings: HMIS Ratings:** 

Health 2, Flammability 1, Reactivity 0 Flammability 1, Reactivity 0, Health 2

**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.

Scoop up and remove.

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 container closed when not in use.

**EXPOSURE CONTROLS/PERSONAL PROTECTION** 

**Engineering Controls** 

A well ventilated area to control dust levels. Local exhaust ventilation should be used

in areas without good cross ventilation.

Respiratory Protection

Organic vapor respirator with a dust/mist filter. In high concentrations, supplied air

respirator or a self-contained breathing apparatus.

**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.

PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** 

Liquid

Color: Odor:

White to gray

pH:

Mild hydrocarbon

**EZ-MUD®** Page 2 of 6 Specific Gravity @ 20 C (Water=1): 1.0 Density @ 20 C (lbs./gallon): 8.3

Bulk Density @ 20 C (lbs/ft3): Not Determined

**Boiling Point/Range (F):** 347 Boiling Point/Range (C): 175

Freezing Point/Range (F): Not Determined Freezing Point/Range (C): Not Determined 0.002

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1): Not Determined

**Percent Volatiles:** 70 **Evaporation Rate (Butyl Acetate=1):** < 1

Solubility in Water (g/100ml): Partially soluble Solubility in Solvents (g/100ml): Not Determined VOCs (lbs./gallon): Not Determined

Viscosity, Dynamic @ 20 C (centipoise): Not Determined Viscosity, Kinematic @ 20 C (centistrokes): Not Determined Partition Coefficient/n-Octanol/Water: Not Determined

Molecular Weight (g/mole):

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** 

Ammonia. Oxides of nitrogen. Carbon monoxide and carbon dioxide.

**Additional Guidelines** Not Applicable

### 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 irritation.

**Eye Contact** May cause severe eye irritation.

Ingestion Aspiration into the lungs may cause chemical pneumonitis including coughing,

difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. 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.

**Aggravated Medical Conditions** Lung disorders.

**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** 

**EZ-MUD®** Page 3 of 6 **Oral Toxicity:** 

Not determined

**Dermal Toxicity:** 

Not determined

**Inhalation Toxicity:** 

Not determined

**Primary Irritation Effect:** 

Not determined

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

# 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

BOD(28 Day): 40% of COD

Bio-accumulation

Not Determined

# **Ecotoxicological Information**

**Acute Fish Toxicity:** 

TLM96: >1000 mg/l (Pimephales promelas)

Acute Crustaceans Toxicity:TLM48: 98 mg/l (Acartia tonsa)

**Acute Algae Toxicity:** 

EC50: 16.70 mg/l (Skeletonema costatum)

**Chemical Fate Information** 

Not determined

Other Information

Not applicable

#### **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.

# TRANSPORT INFORMATION

# **Land Transportation**

DOT

Not restricted

Canadian TDG

Not restricted

**ADR** Not restricted

Air Transportation

ICAO/IATA Not restricted

Sea Transportation

EZ-MUD® Page 4 of 6

#### **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

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** 

**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.

Not applicable.

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

D2B Toxic Materials

### 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 Chemical Compliance 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:** 

**BARAZAN®** D

**Revision Date:** 

10-Mar-2005

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

BARAZAN® D

Synonyms:

Application:

None

**Chemical Family:** 

Polysaccharide

Viscosifier

Manufacturer/Supplier

**Baroid Drilling Fluids** 

a Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

Emergency Telephone: (281) 575-5000

Prepared By

**Chemical Compliance** 

Telephone: 1-580-251-4335

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS Number	PERCENT	<b>ACGIH TLV-TWA</b>	OSHA PEL-TWA
Xanthan gum	11138-66-2	60 - 100%	10 mg/m ³	15 mg/m ³

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** 

May cause eye irritation. Airborne dust may be explosive.

### 4. FIRST AID MEASURES

Inhalation If inhaled, remove from area to fresh a

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** Under normal conditions, first aid procedures are not required.

Notes to Physician Not Applicable

DUPLICATE

BARAZAN® D Page 1 of 5 **FIRE FIGHTING MEASURES** 

Flash Point/Range (F): Flash Point/Range (C):

510 Flash Point Method:

**Autoignition Temperature (F):** 

Not Determined 400

**Autoignition Temperature (C):** 

204

950

Flammability Limits in Air - Lower (%): Flammability Limits in Air - Lower (oz./ft3): Not Determined

Flammability Limits in Air - Upper (%):

0.04 - 0.4Not Determined

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

**Special Exposure Hazards** 

Decomposition in fire may produce toxic gases. Organic dust in the presence of an

ignition source can be explosive in high concentrations. Good housekeeping

practices are required to minimize this potential.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

NFPA Ratings: **HMIS Ratings:** 

Health 0, Flammability 1, Reactivity 0

Flammability 1, Reactivity 0, Health 0

# **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary** 

Measures

None known.

Procedure for Cleaning /

**Absorption** 

Scoop up and remove.

### HANDLING AND STORAGE

**Handling Precautions** 

Slippery when wet. Avoid creating or inhaling dust.

Storage Information

Store away from oxidizers. Store in a cool, dry location. Product has a shelf life of 6

months.

# **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** 

Use in a well ventilated area.

Respiratory Protection

Not normally needed. But if significant exposures are possible then the following

respirator is recommended:

Dust/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.

#### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** 

Powder

BARAZAN® D Page 2 of 5

Color:

Odor:

:Hq 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):

White to yellow

Slight 5.5-8.5 1.6

Not Determined

52.4

Not Determined Not Determined Not Determined Not Determined

Not Determined Not Determined Not Determined Not Determined

Soluble

Not Determined Not Determined Not Determined Not Determined Not Determined

1,000,000

## STABILITY AND REACTIVITY

**Stability Data:** 

Stable

**Hazardous Polymerization:** 

Will Not Occur

**Conditions to Avoid** 

None anticipated

Incompatibility (Materials to

Avoid)

Strong oxidizers.

**Hazardous Decomposition** 

**Products** 

Carbon monoxide and carbon dioxide.

**Additional Guidelines** 

Not Applicable

#### TOXICOLOGICAL INFORMATION

**Principle Route of Exposure** 

Eye or skin contact, inhalation.

Inhalation

May impede respiration.

Skin Contact

None known.

**Eye Contact** 

May cause mild 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:** 

LD50: > 5000 mg/kg (Rat)

**Dermal Toxicity:** 

Not determined

BARAZAN® D Page 3 of 5

**Inhalation Toxicity:** 

Not determined

**Primary Irritation Effect:** 

Not determined

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

# 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

BOD(5 Day): 200 mg/g COD: 1600 mg/g

**Bio-accumulation** 

Not Determined

# **Ecotoxicological Information**

**Acute Fish Toxicity:** 

**Acute Algae Toxicity:** 

TLM96: 320-560 ppm (Oncorhynchus mykiss)

Acute Crustaceans Toxicity:TLM96: > 75000 ppm (Mysidopsis bahia)

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

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** 

Not applicable. Reportable Spill Quantity For This

**Product** 

**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

**Un-Controlled** 

#### 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 Chemical Compliance at 1-580-251-4335.

**Disclaimer Statement** 

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***END OF MSDS***

BARAZAN® D Page 5 of 5

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

APPROVED BY: _____

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised March 17, 1999

Submit Original
Plus 1 Copy

DATE:

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 4. Generator: 1. RCRA Exempt: Non-Exempt: 🔯 **Red Willow Production Company** Verbal Approval Received: No: Yes 5. Originating Site: **McElvain Compressor** 6. Transporter: 2. Management Facility Destination: JFJ Landfarm L.L.C. 3. Address of Facility Operator: JFJ Landfarm 8. State: C/o. Industrial Ecosystems Inc. NM P.O. Box 2043 Farmington, NM 87499 7. Location of Material (Street Address or ULSTR) S-25, T-33N, R-08W 9. Circle One: 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: Mixture of sand/gravel/engine oil (15w40). -MSDS and RCRA 8 attached. Known Volume _____bbls (to be entered by the operator at the end of the haul) Waste Management Facility Authorized Agent

TITLE: Operations Manager DATE: 12/5/2006 **TYPE OR PRINT NAME: Joel Owens** TELEPHONE NO. (505) 632-1782 E-MAIL ADDRESS: jtowens@industrialecosystems.com (This space for State Use) APPROVED BY: BP TITLE:



Industrial EcoSystems

5056321876

p.2



Oct 10 06 11:51a

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery Director Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. <u>Destination Name</u> :
Red Willow Production Company	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
PO Box 369	#81 CR 3150
14933 Hwy. 172	Aztec, NM 87410
Ignacio, CO 81137	Phone # 505-632-1782 Fax No# 505-334-1003
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
McElvain Compressor	UL- <u>S- 25 T- 33N R- 08W</u> or attach list Street Address:
Attach list of originating sites as appropriate  4. Source and Description of Waste	
4. Source and Description of Waste	
Mixture of Sand/Gravel/Engine oil (15W40)	
I, Jonathan Sorrel representative for Red Willow Production Comp Conservation and Recovery Act (RCRA) and Environmental Protection described waste is: (Check appropriate classification)	nany do hereby certify that, according to the Resource in Agency's July, 1988, regulatory determination, the above
EXEMPT oilfield waste X NON-I	EXEMPT oilfield waste which is non-hazardous by
	or by product identification and that nothing has been added to apt or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentation is attached (c  X MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	check appropriate items): Other (description) RCRA 8
This waste is in compliance with Regulated Levels of Naturally Oc NMAC 3.1 subpart 1463.C and D.	curring Radioactive Material (NORM) pursuant to 20
Name (Original Signature):	Phone Contact: <u>970-563-5193</u>
Title: EHS Manager	P.O# / Pay key No:
Date: /2/1/06	

# Certificate From Out Of State Agency Authorizing Removal Of-RCRA Exempt, Non-Toxic, Oilfield Waste From Their Jurisdiction To New ay Non-exempt, non-harrows Mexico

I have reviewed the enclosed information concerning the Exempt, Not-toxic oilfield waste material from McFlusin Compressor and agree that by its description it is non-hazardous as defined by the resource Conservation and Recovery Act (RCRA) and my jurisdiction's rules, regulations or statutes.

- The material is Exempt oilfield waste. ay
- The material is Non-hazardous by regulatory definition, characteristic Analysis

### THERFORE:

As a representative for the Southern Ute Indian Tribe I have no objection to the material being removed to New Mexico.

Date:

Agency Address & Phone:

**BIA Southern Ute Agency** Ignacio, Colorado

MSD\$ Code: 776084

Status: Final

Page 1/8

Date of Issue: 06-May-2004



# MATERIAL SAFETY DATA SHEET Conoco HD Fleet Supreme Engine Oil

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Conoco HD Fleet Supreme Engine Oil

**Product Code:** 

46261

Intended Use: Synonyms: Heavy Duty Diesel Engine Oil Conoco MSDS #MOTC0090

Conoco HD Fleet Supreme Engine Oil (AP Region)
Conoco HD Fleet Supreme Engine Oil 10W-30
Conoco HD Fleet Supreme Engine Oil 15W-40

Conoco HD Fleet Supreme Engine Oil 20W-50

Chemical Family:

Not Given

Responsible Party:

Conoco Lubricarits

A Division of ConocoPhillips

600 N. Dairy Ashford Houston, Texas 77079-1175

Customer Service:

800-255-9556

Technical Information: 800-255-9558

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical Information number listed.

#### **EMERGENCY OVERVIEW**

# 24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident Call CHEMTREC:

North America: (800) 424-9300 Others: (703) 527-3887 (collect)

California Poison Control System: (800) 356-3219

Health Hazards/Precautionary Measures: Causes eye and skin irritation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Keep away from all sources of ignition.

Appearance: Physical Form: Light brown Liquid

Odor:

Light petroleum

NFPA 704 Hazard Class:

HMIS Hazard Class:

Health: Flammability:

1 (Slight) 1 (Slight) Health: Flammability: 1 (Slight) 1 (Slight)

instability:

0 (Least)

Physical Hazards:

0 (Least)

Status: Final

Page 2/8

Date of Issue: 06-May-2004

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS							
Component / CAS No:	Percent (%)	ACGIH:	OSHA:	NIOSH:	Other:		
Zinc Compound	1-2	NE	NE	NE			
PROPRIETARY	] [						

NON-HAZARDOUS COMPONENTS							
Component / CAS No:	Percent (%)	ACGIH:	OSHA:	NIOSH:	Other:		
Lubricant Base Oil (Petroleum) VARIOUS	70 - 80	5rng/m² TWA 10 mg/m² STEL	5 mg/m³ TWA		as Oil Mist, if Generated 5 mg/m³ NOHSC TWA		
Additives PROPRIETARY	20 - 30	NE	NE	NE			

All components are listed on the TSCA inventory.

The base oil for this product can be a mixture of any of the following highly refined petroleum streams: CAS 64741-88-4; CAS 64741-98-4; CAS 64741-97-5; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-55-8; CAS 64742-56-9; CAS 64742-57-0; CAS 64742-62-7; CAS 64742-63-8; CAS 64742-65-0; CAS 72623-85-9; CAS 72623-86-0; CAS 72623-87-1

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM. NE=Not Established

# 3. HAZARDS IDENTIFICATION

#### Potential Health Effects:

Eye: Eye irritant. Contact may cause stinging, watering, redness, and swelling.

Skin: Skin irritant. Contact may cause redness, itching, burning, and skin damage. No harmful effects from skin absorption are expected.

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): No harmful effects expected from ingestion.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, nausea, and, diarrhea.

Cancer: Inadequate evidence available to evaluate the cancer hazard of this material. See Section 11 for carcinogenicity information of individual components, if any.

Target Organs: No data available for this material.

Developmental: No data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders.

Status: Final

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Date of Issue: 06-May-2004

# 4. FIRST AID MEASURES

Eye: Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek medical attention. For direct contact, hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.

Skin: Wipe material from skin, remove contaminated shoes and clothing and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water and, if necessary, a waterless skin cleanser. If imitation or redness develops, seek medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

Notes to Physician: High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. Often these injuries require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury.

Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

### 5. FIRE-FIGHTING MEASURES

#### Flammable Properties:

Flash Point:

380°F / 193°C

**Test Method:** 

PM

OSHA Flammability Class: Not applicable

LEL%:

No data

UEL%:

No data

Autoignition Temperature: No data

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily. If water is applied to heated material, it can cause violent foaming and boilover. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Fire Flahting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

Status: Final

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Date of Issue: 06-May-2004

### 6. ACCIDENTAL RELEASE MEASURES

This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. Notify appropriate federal, state, and local agencies.

### 7. HANDLING AND STORAGE

Handling: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms of injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing of high pressure hydraulic oil equipment.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Storage temperatures above 113°F may lead to thermal decomposition, resulting in the generation of hydrogen sulfide and other sulfur containing gases. Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Use and store this material in cool, dry, well-ventilated areas. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required.

Personal Protective Equipment (PPE):

Status: Final

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Date of Issue: 06-May-2004

Respiratory: Inhalation is not an expected route of exposure. However, a NIOSH certified air purifying respirator with a Type 96 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation, and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Appearance: Light brown Liquid

Odor: Light petroleum

Odor Threshold: No data

pH: Not applicable Vapor Pressure (mm Hg): <1

Vapor Density (air=1): >1 **Bolling Point:** No data Melting/Freezing Point: No data No data Solubility In Water: Partition Coefficient (n-octanol/water): No data Specific Gravity: 0.88 Bulk Density: 7.33 **Bulk Density Units** lbs/gal Viscosity cSt @ 100°C: 15.1

Viscosity cSt @ 40°C; 115
Evaporation Rate (nBuAc=1); <1

Flash Point: 380°F / 193°C
Test Method: PM

Test Method: PM
Flammable/Explosive Limits: No data
Decomposition Temperature: No data

Status: Final

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Date of Issue: 06-May-2004

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to avoid: Can become unstable at elevated temperatures and pressures.

Materials to Avoid (incompatible Materials): Avoid contact with acids and strong oxidizing agents.

Hazardous Decomposition Products: Combustion can yield carbon, nitrogen, sulfur, phosphorus, and zinc oxides. Hydrogen sulfide and alkyl mercaptans may also be released. Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 113°F.

Hazardous Polymerization: Will not occur.

# 11. TOXICOLOGICAL INFORMATION

#### Lubricant Base Oil (Petroleum) - VARIOUS

Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, hydrotreating, and dewaxing to remove aromatics and improve performance characteristics. None of the oils used are listed as a carcinogen by NTP, IARC, or OSHA.

#### Acute Data:

### Lubricant Base Oil (Petroleum) - VARIOUS

Dermal LD50 = >2 g/kg LC50 = No information available Oral LD50 = >5 g/kg

### Additives - PROPRIETARY

Dermal LD50 = No information available LC50 = No information available Oral LD50 = No information available

#### Zinc Compound - PROPRIETARY

Dermal LD50 = No information available LC50 = No information available Oral LD50 = No information available

# 12. ECOLOGICAL INFORMATION

Not evaluated at this time.

Status: Final

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Date of Issue: 06-May-2004

# 13. DISPOSAL CONSIDERATIONS

This material under most intended uses would become used oil due to contamination by physical or chemical impurities. RECYCLE ALL USED OIL. While being recycled, used oil is regulated by 40 CFR 279. Use resulting in chemical or physical change or contamination may also subject it to regulation as hazardous waste. Under federal regulations, used oil is a solid waste managed under 40 CFR 279. However, in California, used oil is managed as hazardous waste until tested to show it is not hazardous. Consult state and local regulations regarding the proper handling of used oil. In the case of used oil, the intent to discard it may cause the used oil to be regulated as hazardous waste.

Contents should be completely used and containers emptied prior to discard. Rinsate may be considered a RCRA hazardous waste and must be disposed of with care and in compliance with federal, state and local regulations. Large empty containers, such as drums, should be returned to the distributor or a drum reconditioner. To assure proper disposal of small empty containers, consult with state and local regulations and disposal authorities.

### 14. TRANSPORTATION INFORMATION

DOT Shipping Description: Not classified as hazardous

Note: Material is unregulated unless in container of 3500 gallons or more, then provisions of 49 CFR Part 130 apply for land shipment.

IMDG Shipping Description: Not regulated

ICAO/IATA Shipping Description: Not regulated

# 15. REGULATORY INFORMATION

### U.S. Regulations:

EPA SARA 311/312 (Title III Hazard Categories)

Acute Health:

Yes

Chronic Health:

No

Fire Hazard:

No

Pressure Hazard:

No

Reactive Hazard:

No

SARA - Section 313 and 49 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372: Zinc Compound 1-2%

EPA (CERCLA) Reportable Quantity:

-None Known-

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs

This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372:

- None Known -

California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

- None Known -

Carcinogen Identification:

Status: Final

Page 8/8

Date of issue: 06-May-2004

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

All components are listed on the TSCA inventory.

### 16. OTHER INFORMATION

Issue/Revision Date:

06-May-2004

Previous Issue Date:

5/13/2003

Product Code:

46261

Reason for revision:

Formulation Change. SEE SECTION 2.

**Previous Product Code:** 

46261, 46260, 46272

MSDS Code:

776084

Disclaimer of Expressed and Implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

Nov-20. 2006 11:18AM

970-247-4227

No.7234 P. 4

Green Analytical Laboratories, Inc. **75 Suttle Street** Durango, CO 81303

**Red Willow Production** 

PO Box 369

Ignacio, CO 81137

Attention: Andy Young

GAL I.D.:

610-043-01

Date Received:

10/05/06

Date Reported:

11/20/06

QC Batches:

**PROJECT NAME:** 

**PROJECT NUMBER:** 

SAMPLE I.D.:

McElvain Comp - Totals -

Sample Date:

10/05/06

Sample Matrix:

Soil

Unils:

mg/kg

# **RCRA Metals**

# **RESULTS**

PARAMETER		REPORT	•	DATE		
	METHOD	LIMIT.	RESULT	DILUTION ANALYZED ANALYST		
Arsenic	6010B	10	<10	100		
Barium	6010B	1.0	146	100		
Cadmium	6010B	1.0	2.0	100		
Chromium	6010B	1.0	5.9	100		
Lead	6010B	50	6.6	100		
Mercury	7470A	0.10	0.19	500		
Selenium	6010B	20	<20	100		
Silver	6010B	1.0	<1.0	100		

Nov.20. 2006 11:18AM 970-247-4227

P. 3 No.7234

Green Analytical Laboratories, Inc. **75 Suttle Street** Durango, CO 81303

Red Willow Production

PO Box 369

Ignacio, CO 81137

Attention: Andy Young

**PROJECT NAME:** 

PROJECT NUMBER:

SAMPLE I.D.:

McElvain Comp

GAL I.D.:

610-043-01

Date Received:

10/05/06

Date Reported:

11/20/06

QC Batches:

Sample Date:

10/05/06

Sample Matrix:

Water

Units:

mg/L

# **TCLP Metals**

# **RESULTS**

	REPORT			DATE		
PARAMETER	METHOD	LIMIT	RESULT	DILUTION	ANALYZED	ANALYST
Arsenic	200.7	0.10	<0.10	1		
Barium	200.7	0.01	1.25	1		ŧ
Cadmium	200.7	0.01	0.01	1		
Chromium	200.7	0.01	<0.01	1		
Lead	200.7	0.05	<0.05	1		
Mercury	245.1	0.0002	<0.0002	1		
Selenium	200.7	0.20	<0.20	1		
Silver	200.7	0.01	<0.01	1		

District I
1625'N, French Dr., Hobbs, NM 88240
Estrict II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Sunta 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 March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR APPROVAL TO ACCE	EL SOLUE WASTE
1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator: XTO Energy
Verbal Approval Received: Yes No: 7/27/06 Luam Brandon Awc(	5. Originating Site: Ohio Gov, La Plata CDP
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499  7. Location of Material (Street Address or ULSTR) S-18, T-31N, R-12W	8. State:
9. Circle One:  A. All requests for approval to accept oilfield exempt wastes will be accompanied one certificate per job.  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 approved  All transporters must certify the wastes delivered are only BRIEF DESCRIPTION OF MATERIAL: excavation of soils from abandon hist analysis attached)  Estimated Volume 20cy   Known Volume (to be entered by the operator at the	by necessary chemical analysis to PROVE the classified hazardous by listing or testing will be those consigned for transport.  orical unlined compressor pit (RCRA 8-Metals
Waste Management Facility Authorized Agent	tions Manager DATE: 9/27/2006
TYPE OR PRINT NAME: <u>Joel Owens</u> TELEPHONE NO. (505) 632-178  E-MAIL ADDRESS: <u>itowens@industrialecosystems.com</u>	32
APPROVED BY: TITLE: Envisor	
OCT 1 1 2006	

<del>...</del>.

Oil Conservation Making. 122:

Enda ...

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

APPROVED BY:

## State of New Mexico Energy Minerals and Natural Resources

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



Revised March 17, 1999 Submit Original

DATE: _____

Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEP	T SÕLĪD WASTE
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator ZO
Verbal Approval Received: Yes \ No: \ \ 9\20 Provell	5. Originating Site: Ohio Gov. La Plata CDP
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR) S-18, T-31N, R-12W	
9. Circle One:  A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  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  All transporters must certify the wastes delivered are only the BRIEF DESCRIPTION OF MATERIAL: excavation of soils from abandon historic analysis attached)  Estimated Volume 2 Ocy. Known Volume (to be entered by the operator at the end	secessary chemical analysis to PROVE the assified hazardous by listing or testing will be use consigned for transport.
SIGNATURE Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Joel Owens TELEPHONE NO. (505) 632-1782  E-MAIL ADDRESS: jtowens@industrialecosystems.com	ns Manager DATE: <u>9/27/2006</u>
(This space for State Use)  APPROVED BY: TITLE:	DATE:



TITLE:



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address  XTO ENERGY INC.  2700 FARMINGTON AVE  BUILDING K, SUITE 1  FARMINGTON, NM 87401	2. Destination Name:  JFJ LANDFARM C/O INDUSTRIAL ECOSMITEN INC.  #81 CR 3150  AZTEC, NM 87410
3. Originating Site (name): OHIO GOV. LA PLATA CDP	Location of the Waste (Street address &/or ULSTR): (B) SEC. 18 - T3IN-RIZW SAN JUAN COUNTY, NEW MENCO
attach list of originating sites as appropriate  4. Source and Description of Waste  EXCAVATION OF SOILS FROM ABANDON HIS  UNLINED COMPRESSOR PIT	TOR KAL
I, JEFF BLAGG Print Name	representative for :
XTO ENERGY, INC.  Conservation and Recovery Act (RCRA) and Environmental Prote described waste is: (Check appropriate classification)	do hereby certify that, according to the Resource ction Agency's July,1988, regulatory determination, the above
	EMPT oilfield waste which is non-hazardous by characteristic r by product identification
and that nothing has been added to the exempt or non-exempt non-	-hazardous waste defined above.
For NON-EXEMPT waste the following documentation is attache  MSDS Information  RCRA Hazardous Waste Analysis - 8 RCRA METALS  Chain of Custody	Other (description
This waste is in compliance with Regulated Levels of Naturally NMAC 3.1 subpart 1403.C and D.	Occurring Radioactive Material (NORM) pursuant to 20
Name (Original Signature):	_
Title: AGENT / Date: SEPT 27, 2006	

## CHAIN OF CUSTODY RECORD

Client / Project Name			Project Location								NALVO	IC / DAT		De			
BLAGG/XTO			OHIO GOV. L	OHIO GOV. LA PLATA CDP			ANALYSIS / PARAMETERS										
Sampler:			Client No.				Ş							Re	emarks		
JEFF BLAGG			94034-	010			No. of ontainer		4 2 X	_	\						
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		No. of Containers	HPH BOS	O RCRA TIETAS	877-X 902-	CL				<del></del>		
5-POINT COMPOSITE	9/20/06	1610	38562	5e	>1L		1	×	×	×	×			ABANDON A COMPRESSOR			-
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					ington, N				İ				Rece	eived Intact	V		
					(505)	632-0	0615						Cool -	Ice/Blue Ice			



#### TRACE METAL ANALYSIS

5.0

5.0

0.2

1.0

5.0

	DI 1770		04004 040
Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	5 - Point Composite of Stockpile	Date Reported:	09-23-06
Laboratory Number:	38562	Date Sampled:	09-20-06
Chain of Custody:	14701	Date Received:	09-21-06
Sample Matrix:	Soil	Date Analyzed:	09-23-06
Preservative:	N/A	Date Digested:	09-22-06
Condition:	Intact	Analysis Needed:	Total Metals
		Det.	TCLP Regulatory
	Concentration	Limit	Level
Parameter	(mg/Kg)	(mg/Kg)	(mg/Kg)
Arsenic	0.071	0.001	5.0
Barium	5.60	0.001	100
Cadmium	0.087	0.001	1.0

ND - Parameter not detected at the stated detection limit.

0.196

0.448

ND

ND

ND

References:

Chromium Lead

Mercury

Selenium

Silver

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Ohio Gov. La Plata CDP Abandon Historical Compressor Pit

0.001

0.001

0.001

0.001

0.001



#### Chloride

Parameter		Concentration (mg	/Kg)
Condition:	Cool and Intact	Chain of Custody:	14701
Preservative:	Cool	Date Analyzed:	09-24-06
Sample Matrix:	Soil	Date Received:	09-21-06
Lab ID#:	38562	Date Sampled:	09-20-06
Sample ID:	5-Point Composite of Stockpile	Date Reported:	09-24-06
Client:	Blagg / XTO	Project #:	94034-010

**Total Chloride** 

27.2

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Ohio Gov. La Plata CDP Abandon Historical Compressor Pit

Analyst C. Coleans

Mustum Wolles
Review



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	5-Point Composite of Stockpile	Date Reported:	09-24-06
Laboratory Number:	38562	Date Sampled:	09-20-06
Chain of Custody:	14701	Date Received:	09-21-06
Sample Matrix:	Soil	Date Analyzed:	09-24-06
Preservative:	Cool	Date Extracted:	09-22-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	3.0	1.5
p,m-Xylene	9.6	2.2
o-Xylene	3.5	1.0
Total BTEX	16.1	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Ohio Gov. La Plata CDP

**Abandon Historical Compressor Pit** 

Analyst

Review



# EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	5-Point Composite of Stockpile	Date Reported:	09-24-06
Laboratory Number:	38562	Date Sampled:	09-20-06
Chain of Custody No:	14701	Date Received:	09-21-06
Sample Matrix:	Soil	Date Extracted:	09-22-06
Preservative:	Cool	Date Analyzed:	09-24-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND .	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Ohio Gov. La Plata CDP

Abandon Historical Compressor Pit

Analyst C. Oph

Ahrstrem Welter
Review

<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 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 March 17, 1999

Submit Original Plus I Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	I SOLID WAST	TC
1. RCRA Exempt: Non-Exempt: 🖂	4. Generator: Stewart & Stevenson	Power LLC
Verbal Approval Received: Yes \ No: Rock Walson From Brandon Parell-OCD 8/14/06	5. Originating Site: Stewart & Stevenson	Power LLC
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: Riley	
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o Box 2043 Farmington, NM 87499	8. State: //	Alle
7. Location of Material (Street Address or ULSTR) 1515 W. Murray, Farmington, NM 87401	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
9. Circle One:  A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  B. 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 classapproved  All transporters must certify the wastes delivered are only the BRIEF DESCRIPTION OF MATERIAL: Primarily oil field waste generator from visuality sumps located in wash bay. Analyticals attached (TCLP Organics & Metals).  Estimated Volume 11 bbls Known Volume (to be entered by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and provided in wash by the operator and pro	ecessary chemical analys ssified hazardous by listi se consigned for transp washing parts and moto	is to PROVE the ing or testing will be ort.
SIGNATURE TIPLE: Operations Management Facility Authorized Agent	ager DATE:	08/14/06
TYPE OR PRINT NAME: <u>JOEL OWENS</u> T	ELEPHONE NO. <u>(50</u>	5) 632-1782
E-MAIL ADDRESS: jtowens@industrialecosystems.com		
APPROVED BY Transfer Town Town TITLE: Fasicol Spe	· D	
APPROVEDBY TITLE: ENDING E  H NAME - ALEW LABORATORY ARMYSIS I'S RE APPROVED REQUEST		ATE: 3/15/06 ATE: 1/25/06

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 Form C-138
Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ATTROVAL TO ACCE	I SOLID WASTE
1. RCRA Exempt: Non-Exempt: ⊠	4. Generator: Stewart & Stevenson Power LLC
Verbal Approval Received: Yes No: Rec'd Verba From Grandon Powell-OCD 8/14/06	5. Originating Site: Stewart & Stevenson Power LLC
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: Riley
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o Box 2043 Farmington, NM 87499	8. State: 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
7. Location of Material (Street Address or ULSTR) 1515 W. Murray, Farmington, NM 87401	OI COMS DO
<ul> <li>9. Circle One:         <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 clarapproved</li> <li>All transporters must certify the wastes delivered are only those BRIEF DESCRIPTION OF MATERIAL: Primarily oil field waste generator from wastes located in wash bay. Analyticals attached (TCLP Organics &amp; Metals).</li> </ul> </li> </ul>	ecessary chemical analysis to PROVE the ssified hazardous by listing or testing will be see consigned for transport.
Estimated Volume 11 bbls Known Volume (to be entered by the operator at SIGNATURE TIPLE: Operations Management	
TYPE OR PRINT NAME:	ELEPHONE NO. <u>(505) 632-1782</u>
E-MAIL ADDRESS: <u>itowens@industrialecosystems.com</u>	
(This space for State Use) +	
APPROVED BY: SP TITLE:	DATE:
APPROVED BY: TITLE:	DATE:





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

#### BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

### CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name:
Stewart & Stevenson Power LLC.	J.F.J. Landfarm C/O Industrial Ecosystems Inc. #81 CR 3150
1515 W. Murray	Aztec, NM 87410
Farmington, NM 87401 Phone# 505-326-05	
3. Originating Site (name): Stewart & Stevenson Power LLC.	Location of the Waste (Street address &/or ULSTR):
1515 W.Murray Farmington, NM. 87401	
rathington, 1414. 6740 (	UL- K S- 36 T- 30N R- 14Wor attach list
	Street Address:
Attach list of originating sites as appropriat	CC
4. Source and Description of Waste	
Primarily oil field waste generated from washi	ing parts and motors that is collected in four sumps located in wash bay.
, <u>Wayne Work</u> representat	tive for Stewart & Stevenson Power LLC. do hereby certify that,
according to the Resource Conservation and Recovery A	Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory
determination, the above described waste is:	
(Check appropriate classification)	
EXEMPT oilfield waste	X NON-EXEMPT oilfield waste which is non-hazardous by
	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentation MSDS Information	
RCRA Hazardous Waste Analysis Chain of Custody	XOther (TCLP Organics & Metals)
This waste is in compliance with Regulated Levels of NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant to 20
Name (Original Signature): Wagas a, Ws	Phone Contact: 505-320-3211
Title: _EHS Coordinator	P.O# / Pay key No:
Pate: _8/14/06	
· · · · · · · · · · · · · · · · · · ·	
00 0 m - m - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 1000 P. P. P. LW 4

Oil Conservation Division * 1000 Rio Brazos Road * Aztec, New Mexico 87410 Phone: (505) 334-6178 * Fax (505) 334-6170 * http://www.emnrd.state.nm.us

FAX:5056321876

FIRSTECH, Inc. 19701 South-Miles Rd Warrensville Hts., OH 44128



Phone: (216) 663-0808 Fax. (216) 663 0656

E-Mail: firstlabs@sbcglobal.net

## Report of Analysis

Name:

Aun Wayne A. Work

Stewart & Stevenson - Farmington, NM

1515 W. Murray Dr.

Farmington, NM 87410

Sample Date:

4/6/05

Sample Time: Receipt Date: 10 00.00 AM 4/6/05 9:15:00 AM

Report Date:

4/20/05

Sample Site:

Sample ID# Sample Type:

76375 Solid

Sample Source:

Sampler's Name:

WW

Client Sample

POS Sump - Wash Bay Sump

D:

Parameter	Sample Result	Units	Limit	Minimum Detection Level	Analysis Date	Analyst
TCLP Organics				<del> </del>		
1,1-Dichloroethene	ND	mg/L	0.7	0 05	4/14/05	ΛC
1,2-Dichloroethane	ND	mg/L	0.5	0.05	4/14/05	ΑC
1,4-Dichlorobenzene	מא	mg/L	7.5	0.05	4/14/05	ΑC
2.4,5-Trichlorophenol	ND	mg/L	400	0.1	4/19/05	AC
2,4,6-Trichlorophenol	ND	mg/L	2	0.1	4/19/05	ΛC
2,4-Dmitrotoluene	ND	mg∕I.	0.13	0.1	4/19/05	ΛC
2-Butanone (MEK)	ND	mg/L	200	0.5	4/14/05	AC
2-Methylphenol	ND	mg/L	200	01	4/19/05	AC.
3&4-Methylphenol	ND	mg/L	200	0.2	4/19/05	AC
Benzene	ND	mg/l_	0.5	0.05	4/14/05	ΛC
Carbon Tetrachloride	ND	mg/L	0.5	0.05	4/14/05	AC.
Chlorobenzene	ND	τηg/L	100	0.05	4/14/05	AC
Chloroform	ND	mg/L	6	0.05	4/14/05	ΛC
Hexachlorobenzene	ND	mg/L	0.13	01	4/19/05	ΑC
Hexachiorobutadiene	ND	mg/L	0.5	01	4/19/05	АC
Hexachlorocthane	ND	mg/I.	3	0.1	4/19/05	ΑC
Nitrobenzene	ND	mg/L	2	0.1	4/19/05	AC
Peniachlorophenol	ND	mg/L	100	0.5	4/19/05	۸c
Pyridine	CIN	mg/L	5	.01	4/19/05	Αl
Tetrachloroethene	ND	mg/L	0.7	0.05	4/14/05	$\mathbf{AC}$
Trichloroethene	ND	mg/L	0.5	0.05	4/14/05	AC
Vinyl Chloride	CIN	mg/!.	0.2	0.05	4/14/05	۸C

Mark Kalmover, Lah Director

ND = Not Detected

**独越的** 5C3 जिलियों जी Monique Posner, Ph D , QA/QC Officer

Methods: TCLP Metals - SW846(1311,6010,7470). TCLP Organics - SW846(1311,8260.8270) Comment:

FIRSTECH, Inc 19701 South Miles Rd Warrensville Hts., OH 44128



Phone: (216) 663-0808 Fax. (216) 663 0656 E-Mail: firstlabs@sbcgiobai.net

## Report of Analysis

Name:

Attn. Wayne A. Work

Stewart & Stevenson - Farmington, NM

1515 W. Murray Dr.

Farmington, NM 87410

Sample Date:

4/6/05

Sample Time: Receipt Date:

10 00.00 AM 4/6/05 9:15:00 AM

Report Date:

4/20/05

Sample Site:

Sample ID# 76375 Sample Type:

Solid

Sample Source:

WW Sampler's Name:

Client Sample

POS Sump - Wash Bay Sump

D:

Parameter	Sample Result	· · · · · · · · · · · · · · · · · · ·		Minimum Detection Level	Analysis Date	Analyst	
TCLP Organics							
1,1-Dichloroethene	ND	mg/L	0.7	0.05	4/14/05	ΛC	
1,2-Dichloroethane	ND	mg/L	0.5	0.05	4/14/05	AC.	
1,4-Dichlorobenzene	ממ	mg/L	7.5	0.05	4/14/05	AC	
2.4,5-Trichlorophenol	ND	mg/L	400	0.1	4/19/05	AC	
2,4,6-Trichlorophenol	ND	mg/L	2	0.1	4/19/05	ΛC	
2,4-Dmitrotoluene	dΝ	mg∕I.	0.13	0.1	4/19/05	۸C	
2-Butanone (MEK)	ND	mg/L	200	0.5	4/14/05	AC	
2 Methylphenol	ND	mg/L	200	0.1	4/19/05	ĄĆ.	
3&4-Methylphenol	ND	mg/L	200	0.2	4/19/05	AC.	
Benzene	ND	աճ∖յ⁻	0.5	0.05	4/14/05	ΛC	
Carbon Tetrachloride	ND	mg/L	0.5	0.05	4/14/05	AC.	
Chlorobenzone	ND	mg/L	100	0.05	4/14/05	AC	
Chloroform	ND	mg/L	6	0.05	4/14/05	۸C	
Hexachlorobenzene	ND	πιg/L	0.13	01	4/19/05	AC	
Hexachiorobutadiene	ND	mg/L	0.5	01	4/19/05	ΑC	
Hexachlorocthane	ND	mg/I	3	0.1	4/19/05	۸C	
Nitrobenzene	ND	mg/L	2	0.1	4/19/05	ΑC	
Pentachlorophenol	NID	mg/L	100	0.5	4/19/05	٧c.	
Pyridine	CIN	mg/L	5	0.1	4/19/05	Αl	
Tetrachloroethene	ND	mg/L	0.7	0.05	4/14/05	ΑC	
Trichloroethene	ND	mg/L	0.5	0.05	4/14/05	AC.	
Vinyl Chloride	ND	mg/l.	0.2	0.05	4/14/05	۸C	

Mark Kalmoyer, Lah Director

ND = Not Detected

10 SC3 ण भिन्ना गः Monique Posner, Ph D., QA/QC Officer

Methods: TCLP Metals - SW846(1311,6010,7470). TCLP Organics - SW846(1311,8260.8270) Comment:

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 Resource

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



Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ALTROVAL TO RECEI	
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Dugan Production
Verbal Approval Received: Yes No Verbal phone approval 3/27/2006 @ 11:35am	5. Originating Site Turks Toast Pipeline @ (Monte Carlo #2)
2. Management Facility Destination  JFJ Landfarm L.L.C.  Industrial Ecosystems Inc.  #81 County Road 3150  Aztec, NM 87410	6. Transporter: To Be Determined
3. Address of Facility Operator: Po Box 420, Farmington, NM 87499-0420	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) UL - M, Section 24, T30N, R15W	
9. Circle One:	
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 class approved  All transporters must certify the wastes delivered are only those consigned for transporters DESCRIPTION OF MATERIAL: Disposal of contaminated Inert Sulpha Treat  Estimated Volume less than 10 cubic yards Known Volume (to be entered by the operation)	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be port.
SIGNATURE: TITLE: Business  Waste Management Facility Authorized Agent	Manager DATE: 3/27/2006
TYPE OR PRINT NAME: Vince Scott TELEPHONE NO.	(505) 632-1782
E-MAIL ADDRESS: vince@industrialecosystems.com	
(This space for State Use)  APPROVED BY:  TITLE:	ental Engl DATE: 3/30/06  DATE:



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** Governor Joanna Prukop Cabinet Secretary

Chicains

Lori Wrotenbery Director Oil Conservation Division

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name:
	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
Dunny Parales Time	#81 CR 3150 Aztee, NM 87410 Phone # 505-632-1782 Fax Nos 505-632-1876 Location of the Wayte (Street address & for 1 II STR):
74340	Aztec. NM 87410
F.O. BOX 420 TARMINITER	W. MIX. Phone # 505-632-1782 Fax Not 505-632-1876
3. Originating Site (name): Tuaks Toast Fippling a	Phone # 505-632-1782   Fax Now 505-632-1876
- Are Tanam Topas (a)	posetion of the Area (prode printers pool of 1771 tr).
יו אוליון וופשל ביואון	III. M & THE TAAL II I STILL WALLED
MONTE CARLO #Z	UL M S 24 T 30 N R 15W or attach list
Assoch list of anial action along an annual	Street Address:
Attach list of originating sites as appropria	<u> </u>
4. Source and Description of Waste	
ح بر کارور کی سیدر و و و مسید ا	- A - A
INERT SULPHA 7	Kt4/
•	į
_	
Print Name	A
David Manage	representative for:
rysk rieste	,
77	
Lugar FREGUETIEN	do hereby certify that, according to the Resource Conservation and Recovery ily, 1988, regulatory determination, the above described waste is:
Act (RCRA) and Environmental Protection Agency's Ju	ily, 1988, regulatory determination, the above described waste is:
Check appropriate classification)	
•	
EXEMPT oilfield waste	STONE PROPERTY AND AND AND AND AND AND AND AND AND AND
E-VELIAL T AITHER ARRIES	NON-EXEMPT cliffield weste which is non-hazardous by characteristic
	analysis or by product identification and that nothing has been added to
	the exempt or non-exempt non-hazardous waste defined above.
or NON-EXEMPT waste the following documentation	a fe attached (check
MSDS Information	
RCRA Hazardous Waste Analysis	Other (description
Chair of Court I	
Chain of Custody	
-	Naturally Occurring Padiography Material (NOVA)
his waste is in compliance with Regulated Levels of	Naturally Occurring Radioactive Material (NORM) pursuant to 20
his waste is in compliance with Regulated Levels of	
This waste is in compliance with Regulated Levels of IMAC 3.1 subpart 1403.C and D.	
This waste is in compliance with Regulated Levels of IMAC 3.1 subpart 1403.C and D.	
This waste is in compliance with Regulated Levels of MAC 3.1 subpart 1403.C and D.	Phone: 505-325-1821 /300-45 W
This waste is in compliance with Regulated Levels of MAC 3.1 subpart 1403.C and D.	Phone: 505-325-1821 /300-45 W.
This waste is in compliance with Regulated Levels of MAC 3.1 subpart 1403.C and D.	Phone: 505-325-1821 /300-45 W
This waste is in compliance with Regulated Levels of IMAC 3.1 subpart 1403.C and D.  Iame (Original Signature):  Itle: LONSTRUCTION FOUR	Phone: 505-325-1821 /300-45 W.
	Phone: 505-325-1821 / 1500-45 05
This waste is in compliance with Regulated Levels of MAC 3.1 subpart 1403.C and D.  Name (Original Signature):  Title: LONSTRUCTION FOUR	Phone: 505-325-1821 / 1500-45 05
This waste is in compliance with Regulated Levels of IMAC 3.1 subpart 1403.C and D.  Iame (Original Signature):  Itle: LONSTRUCTION FOUR	Phone: 505-325-1821 / 1500-45 05
This waste is in compliance with Regulated Levels of IMAC 3.1 subpart 1403.C and D.  [ame (Original Signature):	Phone: 505-325-1821 / 1500-45 05

#### MATERIAL SAFETY DATA SHEET

Product ID: 12084 Revision Date: 07/29/2002

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name:

SULFATREAT(R) - 410HP

Chemical Family:

Mixture

Product Use:

Hydrogen Sulfide Treatment

Emergency Telephone (24 hr.):

281-561-1600

Supplied by a Business Unit of: M-I L.L.C.

5950 North Course Dr. Houston, TX 77072 Telephone: 281-561-1511 Fax: 281-561-7240

Contact Person:

Catherine Miller, Occupational Health

Revision Number:

New

WHMIS Class: UN PIN No:

D2A D2B

Not regulated

**HMIS** Rating

Health: 1*

Flammability: 1

Physical Hazard: 0

PPE: E

HMIS Key: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal Hazard. *Chronic effects - See Section 11. See Section 8 for Personal Protective Equipment recommendations.

## COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS NO:	Wt. %	Ingredient Comments:
Silica, crystalline, quartz	14808-60-7	5 - 10	No comments.
Montmorillonite, calcined	70892-59-0	30 - 60	No comments.
Silica, crystalline, Cristobalite	14464-46-1	1 - 5	No comments.
Iron oxides	Various	10 - 30	No comments.
Water	7732-18-5	10 - 30	No comments.

#### HAZARDS IDENTIFICATION

**Emergency Overview:** 

Caution! May cause eye, skin, and respiratory tract irritation. Long term inhalation of particulates may cause lung damage. Cancer hazard. Contains crystalline silica which may cause lung cancer. There is sufficient evidence that inhaled crystalline silica causes cancer in humans. IARC classification group I carcinogen.

Risk of cancer depends on duration and level of exposure.

Potential Health Effects:

Acute Effects

Eye Contact:

Dust may cause irritation and inflammation.

Skin Contact:

Dust may cause skin irritation.

Inhalation:

May be irritating to the respiratory tract if inhaled.

Ingestion:

Not considered a likely route of exposure. May be harmful if large amounts are

swallowed.

**Chronic Effects** 

### MATERIAL SAFETY DATA SHEET Trade Name: SULFATREAT(R) - 410HP

MSDS NO. 12084 Revision Date: 07/29/2002

Page 2/7

Carcinogenicity & Chronic

Effects:

See Section 11 - Toxicological Information.

Routes of Exposure:

Inhalation, Dermal (skin) contact, Eyes.

Target Organs:

Eyes. Skin. Respiratory System.

By Exposure:

Medical Conditions Aggravated Respiratory and skin conditions.

### 4. FIRST AID MEASURES

Eve Contact:

Promptly wash eyes with lots of water while lifting eye lids. Continue to rinse for at

least 15 minutes. Get medical attention if any discomfort continues.

Skin Contact:

Wash skin thoroughly with soap and water. Remove contaminated clothing and

launder before reuse. Get medical attention if any discomfort continues.

Inhalation:

Move person to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Ingestion:

Dilute with 2 - 3 glasses of water or milk, if conscious. Never give anything by mouth to an unconscious person. If signs of irritation or toxicity occur seek medical

attention.

General Notes:

Persons seeking medical attention should carry a copy of this MSDS with them.

Notes To Physician:

None known.

### FIRE FIGHTING MEASURES

#### Flammable Properties

Flash Point: F(C)

Not applicable

Flash Point Method:

Not applicable

Flammable Limits in Air - Lower (%): Not applicable Flammable Limits in Air - Upper (%): Not applicable

Autoignition Temperature: F(C) Not applicable Autoignition Temperature: °C

Not applicable

Flammability Class:

Not combustible

Other Flammable Properties:

Not determined.

Extinguishing Media:

Use extinguishing media appropriate for surrounding fire. This material is not

combustible.

#### **Protection Of Fire-Fighters:**

Special Fire-Fighting Procedures: Do not enter fire area without proper personal protective equipment, including NIOSH/MSHA approved self-contained breathing apparatus. Evacuate area and fight fire from a safe distance. Water spray may be used to keep fire-exposed containers cool. Manage water run-off in accordance with local, state and federal environmental regulations.

Hazardous Combustion Products: Metal fumes.

#### ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Use personal protective equipment identified in Section 8.

Spill Procedures:

Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable

container for disposal.

## MATERIAL SAFETY DATA SHEET

Trade Name: SULFATREAT(R) - 410HP

MSDS NO. 12084 Revision Date: 07/29/2002

Page 3/7

Environmental Precautions:

Waste must be disposed of in accordance with federal, state and local laws. Manage any release of product into sewers, surface/subsurface waters in accordance with local, state and federal environmental regulations.

### 7. HANDLING AND STORAGE

Handling:

Put on appropriate personal protective equipmer.t. Avoid contact with skin and eyes. Avoid generating or breathing dust. Use only in a well ventilated area. Wash thoroughly after handling.

Storage:

Keep container closed. Store away from incompatibles.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Limits**

Ingredient	CAS NO:	Wt. %	ACGIH TLY TWA	OSHA PEL TWA	Other	Notes
Silica, crystalline, quartz	14808-60-7	5 - 10	0.05 mg/m ³	see Table 2-3		(R)
Montmorillonite, calcined	70892-59-0	30 - 60	Not Listed	Not Listed		(1)
Silica, crystalline, Cristobalite	14464-46-1	1 - 5	0.05 mg/m ³	see Table 2-3		(R)
Iron oxides	Various	10 - 30	5 mg/m³, as Fe	15 mg/m ² (Total); 5 mg/m ³ (Respirabki), as Fe		None
Water	7732-18-5	10 - 30	Not Listed	Not Listed		None

#### Notes:

(1) Control as an ACGIH particulate not otherwise specified (PNOS): 10 mg/m³ (Inhalable); 3 mg/m³ (Respirable) and an OSHA particulate not otherwise regulated (PNOR): 15 mg/m³ (Total); 5 mg/m³ (Respirable). (R) Respirable fraction (ACGIH);

Table Z-3: PEL for Mineral Dusts containing crystalline silica are 10 mg/m³ / (%SiO2+2) for quartz and 1/2 the calculated quartz value for cristobalite and tridymite.

An independent study conducted for SulfaTreat, a Business Unit of M-I L.L.C., concluded that workers, who manufacture SulfaTreat products, were not exposed to levels of crystalline silica that exceeded the permissable exposure limit (PEL) and the Threshold Limit Value (TLV) established by OSHA and ACGIH, respectively, for this substance. These manufacturing operations included drying; loading, unloading and mixing of raw materials; final product bagging and general housekeeping activities. Both the PEL and TLV represent the time weighted average concentration for an 8 hour workday and 40 hour workweek, to which it is believed that workers may be repeatedly exposed, day after day, without adverse effect.

Engineering Controls: Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to ensure air contamination and keep workers exposure below the applicable limits.

#### Personal Protection Equipment

Eye/Face Protection:

Dust resistant safety goggles.

Skin Protection:

If needed to minimize irritation: Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear chemical resistant gloves such as nitrile or

neoprene.

Respiratory Protection:

If exposed to airborne particulates: Use at least a NIOSH-approved N95 half-

mask disposable or reuseable particulate respirator (dusk mask).

## MATERIAL SAFETY DATA SHEET

Trade Name: SULFATREAT(R) - 410HP

MSDS NO. 12084 Revision Date: 07/29/2002

Page 4/7

General Hygiene Considerations:

Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded, if contaminated with product.

#### PHYSICAL AND CHEMICAL PROPERTIES

Color:

Odor:

Physical State: pH:

Vapor Pressure: Vapor Density (Air=1): **Boiling Point:** 

Melting/Freezing Point: Solubility Description:

Solubility: Density/Specific Gravity:

**Evaporation Rate:** Odor Threshold Lower:

Odor Threshold Upper:

Black

Odorless Granular Solid

Not determined. Not applicable Not determined

Not determined Not determined In water

Negligible 62 lb/ft3 (1.0 g/cc)

Not applicable Not determined Not determined

#### 10. STABILITY AND REACTIVITY

Chemical Stability:

Stable

Conditions to Avoid:

Not determined.

Materials to Avoid:

Strong acids. Strong oxidizers.

Hazardous Decomposition

Products:

None known

Hazardous Polymerization:

Will not occur

#### 11. TOXICOLOGICAL INFORMATION

Component Toxicological Data

# MATERIAL SAFETY DATA SHEET Trade Name: SULFATREAT(R) - 410HP

MSDS NO. 12084 Revision Date: 07/29/2002

Page 5/7

Ingredient	Component Toxicological Summary
Silica, crystailine, quartz	Crystalline silica is the most widely occurring of all minerals. The most common form of silica is sand. One form of crystalline silica, respirable crystalline silica (RCS), is known to be a human carcinogen. This finding is based on sufficient evidence of carcinogenicity from studies in humans indicating a causal relationship between exposure to RCS and increased lung cancer rates in exposed workers (International Agency for Research on Cancer (IARC), 1997)). According to IARC, the overall relative risk associated risk of developing cancer due to exposure to RCS is 1.3 to 1.5. This risk may be influenced by level and length of exposure. The National Toxicology Program (NTP) classifies crystalline silica as "reasonably anticipated to cause cancer in humans" (6th Annual Report on Carcinogens, 1991). Long term inhalation of crystalline silica can also result in the lung disease, silicosis. Symptoms of this disease include coughing and shortness of breath. (NJ HSFS, January 1996)
Montmorillonite, calcined	Prolonged and repeated inhalation of particulate may lead to pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma.
Iron oxides	Chronic exposure to this component may cause a benign pneumoconiosis (irritation caused by dust inhalation which may lead to fibrosis (formation of fibrous tissue)). (NIOSH, HazardText) Prolonged and repeated inhalation of particulate may lead to pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma.

Product Toxicological Information:

Product oral LD50 is >3990 mg/kg (rat) (highest practical test level).

## 12. ECOLOGICAL INFORMATION

#### Component Ecotoxicity Data

Ingredient	CAS NO:	Data
Silica, crystalline, quartz	14808-60-7	Not determined
Montmorillonite, calcined	70892-59-0	Not determined
Silica, crystalline, Cristobalite	14464-46-1	Not determined
Iron oxides	Various	Not determined
Water	7732-18-5	Not applicable

#### Product Ecotoxicity Data

**Product Data:** 

Contact M-I Environmental Affairs Department for ecotoxicity information.

Chemical Fate Data

Biodegration:

Not determined

Bioaccumulation:

Not determined

Octanol/Water Partition

Not determined

Coefficient:

## 13. DISPOSAL CONSIDERATIONS

Waste Classification:

Not determined.

## MATERIAL SAFETY DATA SHEET

Trade Name: SULFATREAT(R) - 410HP

MSDS NO. 12084 Revision Date: 07/29/2002

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Waste Management:

Under RCRA, it is the responsibility of the user to determine at the time of disposal, whether the product meets RCRA criteria for the hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render the resulting materials hazardous. Empty container retain residues. All labeled precautions must be observed.

Disposal Method:

Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that the containers are empty by the RCRA criteria prior to disposal in a permitted industrial landfill.

#### 14. TRANSPORT INFORMATION

U.S. DOT

Shipping Description:

Not regulated

TDG (Canada):

Shipping Description:

Not regulated

UN PIN No:

Not regulated

IMDG:

Shipping Description:

Not regulated

ICAO/IATA:

Shipping Description:

Not regulated

#### 15. REGULATORY INFORMATION

**US Regulations** 

#### SARA 311/312:

SARA 311/312 Hazard Catagories: Delayed (chronic) health hazard;

Ingredient	SARA 313	CERCLA	SARA 302 / TPQs	CA 55 Cancer	CA £5 Dev. Tox.	CA 65 Repro. F	CA 65 Repro. M
Silica, crystalline, quartz	Not Listed	Not Listed	Not Listed	carcinogen (airborne particles of respirable size); initial date 10/1/88	Not Lisled	Not Listed	Not Listed
Montmorillonite, calcined	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Silica, crystalline, Cristobalite	Not Listed	Not Listed		carcinogen (airbome particles of respirable size); initial date (10/1/88		Not Listed	Not Listed
Iron oxides	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

State Regulations

**State Comments:** Proposition 65: This product contains chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 to cause cancer and/or reproductive toxicity. See table under US Regulations for the specific chemicals.

. . .

## MATERIAL SAFETY DATA SHEET Trade Name: SULFATREAT(R) - 410HP

MSDS NO. 12084 Revision Date: 07/29/2002

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#### International Inventories

Ingredient	CAS NO:	TSCA	DSL	NDSL	EINECS	AICS
Silica, crystalline, quartz	14808-60-7	Listed	Listed	Not Listed	Listed	Listed
Montmorillonite, calcined	70892-59-0	Listed	Listed	Not Listed	Listed	Listed
Silica, crystalline, Cristobalite	14464-46-1	Listed	Listed	Not Listed	Listed	Listed
ron oxides	Various	Listed	Listed	Not Listed	Listed	Listed
Water	7732-18-5	Listed	Listed	Not Listed	Listed	Listed

**Inventory Comment:** 

"Listed" indicates the component is listed or exempt from listing on the chemical

inventory.

#### Canadian Regulations

Controlled Products Regulations Statement: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Class:

D2A D28

## 16. OTHER INFORMATION

The following has been revised since the last issue of this MSDS: New issue

#### Disclaimer:

MSDS furnished independent of product sale. While every offert has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We can not make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's risk. We have made no effort to censor or conceal deteterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guartantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.

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 Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ATTROVAE TO RECEI	I SOLID WINDLE
1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator: Dugan Production
Verbal Approval Received: Yes ⊠ No ☐ <u>Verbal phone approval 3/27/2006</u> @ 11:32am	5. Originating Site McAdams #2
2. Management Facility Destination JFJ Landfarm L.L.C.	6. Transporter: TRC Construction
3. Address of Facility Operator: Po Box 420, Farmington, NM 87499-0420	8. State: New Mexico
<ol> <li>Location of Material (Street Address or ULSTR)</li> <li>UL - P, Section 34, 27N, 10W</li> </ol>	
9. Circle One:	
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 claapproved	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transporters	port.
BRIEF DESCRIPTION OF MATERIAL: <u>Disposal of contaminated soil impacted by use order by BLM for clean up action with deadline date of 1-30-06).</u>	ed motor and compressor oil, (Noticed of written
Estimated Volume less than 10 cubic yards Known Volume (to be entered by the opera	tor at the end of the haul)
SIGNATURE: TITLE: Business Waste Management Facility Authorized Agent	Manager DATE: 3/27/2006
TYPE OR PRINT NAME: Vince Scott TELEPHONE NO.	(505) 632-1782
E-MAIL ADDRESS: vince@industrialecosystems.com	
(This space for State Use)  APPROVED BY: Service Title: Environment	gental Fasa DATE 3/30/06
APPROVED BY:  TITLE:	nental trep DATE: 3/30/11  DATE:





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson
Governor
Joanne Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

## **CERTIFICATE OF WASTE STATUS**

	1. Generator Name and Address	2. Destination Name:
	Dugan Production Corp	J.F.J. Landfarm
	709 E. Murray Drive	C/O Industrial Ecosystems Inc.
	Farmington, NM 87499-0420	#81 CR 3150 Aztec, NM 87410
	505-325-1821	Phone: 505-632-1782 Fax: 505-632-1876
1.0	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	McAdams #2	UL $\underline{P}$ , SECTION 34, T- 27N, R- 10W or
	4 0	Street Address:
	4. Source and Description of Waste	
	Soil impacted by used motor & co	mpressor oils. Excavated with backhoe.
I,	Paul Sikora	representative for :
	Print Name	•
	Dugan Production Corp	do hereby certify that, according to the
Resour	rce Conservation and Recovery Act (RCRA) and En	vironmental Protection Agency's July, 1988, regulatory determination, the
above	described waste is: (Check appropriate classification	
	_EXEMPT oilfield waste	_NON-EXEMPT oilfield waste which is non-hazardous by characteristic
	Aı	nalysis or by product identification
And th	at nothing has been added to the exempt or non-exer	mpt non -hazardous waste defined above.
For NO	ON-EXEMPT waste the following documentation is	attached (check appropriate items):
	MSDS Information	Other (description
	RCRA Hazardous Waste Analysis	
	Chain of Custody	
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
		aturally Occurring Radioactive Material (NORM) pursuant to 20
NMA(	C 3.1 subpart 1403.C and D.	
		20 > 11
Name	(Original Signature):	Phone No: 520 - 4640.
	$\nabla : \bigcirc \setminus \setminus \bigcirc \cup \cup \cup \cup \cup \cup \cup \cup \cup \cup \cup \cup \cup \cup \cup \cup$	
Title	Sterior Traduction Foremen	Pay Key/P.O:
Dotos	3-17-6	
Date.		
		1

## BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

February 23, 2006

Mr. Paul Sikora Dugan Production Corporation P.O. Box 420 Farmington, New Mexico 87401

Re: Compressor Overflow Soil Sample Test Results
McAdams No. 2
(P) Sec. 34 - T27N - R10W
San Juan County, New Mexico

Dear Mr. Sikora:

At your request, Blagg Engineering, Inc. (BEI) sampled a soil stockpile on February 15, 2006 at the Dugan Production Corporation McAdams No. 2. This stockpile, consisting of approximately 10 cubic yards, was accumulated during removal of oil stained soil around a compressor at the well. BEI collected a 5-point composite of the stockpile, stored it in an ice chest with ice and hand delivered it to Envirotech Laboratories in Farmington, New Mexico for testing of RCRA metals.

Laboratory analytical results, attached, indicate that the soils do not exceed closure standards for RCRA metals as established by the New Mexico Oil Conservation Division (NMOCD). Based on these results BEI believes the soils are non-hazardous and, following NMOCD and landfarm approval, may be transported for remediation at a permitted landfarm. Material Safety Data Sheets (MSDS's) for compressor and/or engine oil may be required before landfarm disposal approval can be obtained.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199. BEI appreciates the opportunity to provide services to Dugan Production Corporation.

Respectfully submitted:

Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.

President

Attachment: Laboratory Test Reports



#### TRACE METAL ANALYSIS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Compressor Overflow	Date Reported:	02-17-06
Laboratory Number:	36243	Date Sampled:	02-15-06
Chain of Custody:	15557	Date Received:	02-15-06
Sample Matrix:	Soil	Date Analyzed:	02-17-06
Preservative:	N/A	Date Digested:	02-16-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Augania	0.440	0.004	5.0
Arsenic	0.110	0.001	5.0
Barium	12.6	0.001	100
Cadmium	0.015	0.001	1.0
Chromium	0.131	0.001	5.0
Lead	0.643	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.019	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

McAdams 2 5-Point Composite.

Analyst

May Bruce



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	02-17 TM QA/AC	Date Reported:	02-17-06
Laboratory Number:	36243	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	02-17-06
Condition:	N/A	Date Digested:	02-16-06

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	SOUTH THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF	Duplicate	) % Diff:	Acceptance Range
Arsenic	ND	ND	0.001	0.11	0.11	1.8%	0% - 30%
Barium	ND	ND	0.001	12.6	12.5	0.8%	0% - 30%
Cadmium	ND	ND	0.001	0.015	0.015	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.131	0.129	1.5%	0% - 30%
Lead	ND	ND	0.001	0.643	0.645	0.3%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.019	0.019	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

s Spikes Conc (mg/Kg)	Spike Added	Sample	e Spiked Sample		Acceptance Range
Arsenic	0.500	0.11	0.609	99.8%	80% - 120%
Barium	0.500	12.6	13.1	100.0%	80% - 120%
Cadmium	0.500	0.015	0.515	100.0%	80% - 120%
Chromium	0.500	0.131	0.630	99.8%	80% - 120%
Lead	0.500	0.643	1.14	99.7%	80% - 120%
Mercury	0.500	ND	0.499	99.8%	80% - 120%
Selenium	0.500	0.019	0.518	99.8%	80% - 120%
Silver	0.500	ND	0.500	100.0%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for Sample 36243.

Analyst

Review

May Buce

## CHAIN OF CUSTODY RECORD

Client / Project Name			Project Location				1		ANA	LYSIS / PAR	DAMETERS				
Sampler:	UGAN		MCADAN	1s 2					Alvo	L1313 / FAIT	MIVIETENO				
Sampler:	<u> </u>		Client No.				<u>ي</u>	53				Rer	marks		
1. C. B	oligg_		94034	1-010	)		No. of ontainer	3 RCRA METALS							
Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		No. of Containers	2 Z							
COMPRISER OVER FLOW	2/15/06	1215	36243	<	Soil		į	X			5-80	net (	Comp	`أىدد	te
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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

## 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 March 17, 1999

Submit Original Plus I Copy to Appropriate District Office

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR MITROVILE TO ACCES	I SOLID WASTE
<ol> <li>RCRA Exempt: Non-Exempt:</li></ol>	<ul> <li>4. Generator: <ul> <li>Koch Exploration Company, LLC</li> <li>610 S. Main/ Po Box 489</li> <li>Aztec, New Mexico 87410</li> </ul> </li> <li>5. Originating Site: Quinn 338</li> </ul>
2. Management Facility Destination JFJ Landfarm L.L.C.	6. Transporter:
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o Box 2043 Farmington, NM 87499	8. State:  New Mexico  RECENED
7. Location of Material (Street Address or ULSTR) SESW Section 18, T31N, R08W, San Juan County, New Mexico	ROLOGIST.S
9. Circle One:  A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  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  All transporters must certify the wastes delivered are only those BRIEF DESCRIPTION OF MATERIAL: Removal of soils containing glycol and companied by the operator of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	secessary chemical analysis to PROVE the ssified hazardous by listing or testing will be see consigned for transport.  pressor oil resulting from spills.
SIGNATURE TITLE: Business Mana Weste Management Facility Authorized Agent  TYPE OR PRINT NAME: VINCE SCOTT	:
E-MAIL ADDRESS: vince@industrialecosystems.com	ELEPHONE NO. <u>(505) 632-1782</u>
(This space för State Use)  APPROVED BY:  APPROVED BY:  TITLE:  TITLE:  TITLE:	E-c DATE: 2/28/06 DATE:



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanne Prukop Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address	
Koch Exploration Company, LLC	2. Destination Name:  J.F.J. Landfarm C/O Industrial Ecosystems Inc.
610 S. Main	#81 CR 3150
PO Box 489,	Aztec, NM 87410
Aztec, NM 87410	505)632-1782
, , , , , , , , , , , , , , , , , , , ,	303)032 1702
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Quinn 338 well location, SESW Section 18, Townsh	hip 31N, Range 8W, NMPM, San Juan County, New Mexico
attach list of originating sites as appropriate	
4. Source and Description of Waste	
Removal of soils containing glycol and compressor	oil resulting from spills.
1, Donald L. Johnson	representative for :
Print Name	representative for .
Koch Exploration Company, LLC	do hereby certify that, according to the Resource
	Protection Agency's July, 1988, regulatory determination, the above
described waste is: (Check appropriate classification)	
	<b>ON-EXEMPT</b> oilfield waste which is non-hazardous by characteristic
ana	alysis or by product identification
and that mathins has been added to the surrout or use arrows	t hde
and that nothing has been added to the exempt or non-exempt	t non –nazardous waste defined above.
For NON-EXEMPT waste the following documentation is at	ttached (check appropriate items)
X MSDS Information	Other (description
X RCRA Hazardous Waste Analysis	Other (description
X Chain of Custody	•
_N_Onam or Outlody	
This waste is in compliance with Regulated Levels of Natu	urally Occurring Radioactive Material (NORM) pursuant to 20
NMAC 3.1 subpart 1403.C and D.	, , , , , , , , , , , , , , , , , , ,
Name (Original Signature):	Contact Phone Number 505-334-9111
Traine (Original Signature).	
Title: Field Operations Manager //	
Date: 2/23/06	

Off: (505) 327-1072

# iná

P.O. Box 3788 Shiprock, NM 87420

-06 Off: (505) 368-4065

#### ANAEYTICAL REPORT

CLIENT:

Souder, Miller & Associates

Work Order:

0601030

Project:

Quinn 338 Compressor Pad / 5115155

Lab ID:

0601030-001A

Client Sample Info: Quinn 338 Compressor Pad

Client Sample ID: Quinn 338 @ 8 inches BG

Collection Date: 1/23/2006 9:15:00 AM

Matrix: SOIL

Parameter	Result	PQL Qu	al Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015	В		Analyst: jem
T/R Hydrocarbons: C10-C28	ND	25.0	mg/Kg	1	2/2/2006
Surr: o-Terphenyl	77.0	47-149	%REC	1	2/2/2006
GASOLINE RANGE ORGANICS		SW8015	B (SW5	035A)	Analyst: jem
T/R Hydrocarbons: C6-C10	ND	4.50	mg/Kg	25	2/2/2006
Surr: Trifluorotoluene	106	92.5-127	%REC	25	2/2/2006
AROMATIC VOLATILES BY GC/PID		SW8021	3 (SW5	035A)	Analyst: jem
Benzene	ND	50.0	μg/Kg `	25	2/1/2006
Toluene	ND	50.0	μg/Kg	25	2/1/2006
Ethylbenzene	ND	50.0	μg/Kg	25	2/1/2006
m,p-Xylene	ND	100	µg/Kg	25	2/1/2006
o-Xylene	ND	50.0	μg/Kg	25	2/1/2006
Surr: Fluorobenzene	101	80-120	%REC	25	2/1/2006
Surr: 1,4-Difluorobenzene	101	80-120	%REC	25	2/1/2006
Surr: 4-Bromochlorobenzene	94.1	50-140	%REC	25	2/1/2006
MERCURY, TCLP LEACHED		SW7470	(SW74	<b>1</b> 70)	Analyst: jle
Mercury	< 0.0020	0.0020	mg/L	1	2/3/2006
CP METALS, TCLP LEACHED		SW1311/601	10B (SW30	)10A)	Anályst: jle
Arsenic	< 0.018	0.018	mg/L	1	2/3/2006 1:49:16 PM
Barium	2.19	0.003 B	mg/L	1	2/3/2006 1:49:16 PM
Cadmium	0.004	0.003	mg/L	1	2/3/2006 1:49:16 PM
Chromium	< 0.003	0.003	mg/L	1	2/3/2006 1:49:16 PM
Lead	< 0.005	0.005	mg/L	1	2/3/2006 1:49:16 PM
Selenium	0.011	0.011	mg/L	1	2/3/2006 1:49:16 PM
Silver	< 0.020	0.020	mg/L	1	2/3/2006 1:49:16 PM

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 1 of 2

Off: (505) 327-1072

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bá

P.O. Box 3788 Shiprock, NM 87420

Date: 06-Feb-06 Off: (505) 368-4065

#### ANAENTICAL REPORT

CLIENT:

Souder, Miller & Associates

Work Order:

0601030

Project:

Quinn 338 Compressor Pad / 5115155

Lab ID:

0601030-002A

Client Sample Info: Quinn 338 Compressor Pad

Client Sample ID: Quinn 338 @ 3 ft BG

Collection Date: 1/23/2006 9:30:00 AM

Matrix: SOIL

Parameter	Result	PQL Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B			Analyst: jem
T/R Hydrocarbons: C10-C28	ND	25.0	mg/Kg	1	2/2/2006
Surr: o-Terphenyl	77.7	47-149	%REC	1	2/2/2006
GASOLINE RANGE ORGANICS		SW8015B	(SW5	035A)	Analyst: jem
T/R Hydrocarbons: C6-C10	ND	4.50	mg/Kg	25	2/2/2006
Surr: Trifluorotoluene	105	92.5-127	%REC	25	2/2/2006
AROMATIC VOLATILES BY GC/PID		SW8021B	(SW50	035A)	Analyst: jem
Benzene	ND	50.0	μg/Kg	25	2/1/2006
Toluene	ND	50.0	ug/Kg	25	2/1/2006
Ethylbenzene	ND	50.0	μg/Kg	25	2/1/2006
m,p-Xylene	ND	100	µg/Kg	25	2/1/2006
o-Xylene	ND	50.0	μg/Kg	25	2/1/2006
Surr: Fluorobenzene	102	80-120	%REC	25	2/1/2006
Surr: 1,4-Difluorobenzene	103	80-120	%REC	25	2/1/2006
Surr: 4-Bromochlorobenzene	102	50-140	%REC	25	2/1/2006

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 2 of 2

Date: 06-Feb-06

CLIENT:

Souder, Miller & Associates

Work Order:

0601030

Project:

Quinn 338 Compressor Pad / 5115155

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_HG

Sample ID MB_1187 Client ID: ZZZZZ	SampType: MBLK Batch ID: 1187	TestCode: 1311_HG TestNo: SW7470	Units: mg/L (SW7470)	Prep Date: 2/3/2006  Analysis Date: 2/3/2006	Run ID: AA_060203A SeqNo: 109026
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	< 0.00200	0.00200			
Sample ID LCS_1187	SampType: LCS	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/3/2006	Run ID: AA_060203A
Client ID: ZZZZZ	Batch ID: 1187	TestNo: SW7470	(SW7470)	Analysis Date: 2/3/2006	SeqNo: 109027
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	0.01414	0.00200 0.0125	0	113 70 130 0	0
Sample ID LCSD_1187 Client ID: ZZZZZ	SampType: LCSD Batch ID: 1187	TestCode: 1311_HG TestNo: SW7470	Units: mg/L (SW7470)	Prep Date: 2/3/2006 Analysis Date: 2/3/2006	Run ID: AA_060203A SeqNo: 109028
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	0.01468	0.00200 0.0125	0	117 70 130 0.01414	3.73 0
Sample ID 0601035-001AMS	SampType: MS	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/3/2006	Run ID: AA_060203A
Client ID: ZZZZZ	Batch ID: 1187	TestNo: SW7470	(SW7470)	Analysis Date: 2/3/2006	SeqNo: <b>109034</b>
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	0.01484	0.00200 0.0125	0	119 70 130 0	0
Sample ID 0601035-001AMSD Client ID: ZZZZZ	SampType: MSD Batch ID: 1187	TestCode: 1311_HG TestNo: SW7470	Units: mg/L (SW7470)	Prep Date: 2/3/2006  Analysis Date: 2/3/2006	Run ID: AA_060203A SeqNo: 109035
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Mercury	0.01299	0.00200 0.0125	0	104 70 130 0.01484	13.3 20

**CLIENT:** 

Souder, Miller & Associates

Work Order:

0601030

Project:

Quinn 338 Compressor Pad / 5115155

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_HG

Sample ID 0601030-001AD  Client ID: Quinn 338 @ 8 inch	SampType: DUP Batch ID: 1187	TestCode: 1311_HG TestNo: SW7470		Units: mg/L (SW7470)	Prep Date: 2/3/2006  Analysis Date: 2/3/2006				Run ID: AA_060203A SeqNo: 109033		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00200	0.00200	0	0	0	0	0	0	0	15	

CLIENT:

Souder, Miller & Associates

Work Order:

0601030

**Project:** 

Quinn 338 Compressor Pad / 5115155

## ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_M

Sample ID MB_1184	SampType: MBLK	TestCode	e: <b>1311_M</b>	Units: mg/L		Prep Date	e: 2/2/200	6	Run ID: ICP	_1_060203B	
Client ID: ZZZZZ	Batch ID: 1184	TestNo	o: <b>SW1311/6</b>	010 (SW3010A)	Analysis Date: 2/3/2006				SeqNo: 109037		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.01011	0.0180									J
Barium	0.498	0.00300									
Cadmium	< 0.00300	0.00300									
Chromium	0.002221	0.00300									J
Lead	0.002209	0.00500							•		J
Selenium	0.003344	0.0110									J
Silver	< 0.0200	0.0200							·		
Sample ID LCS_1184	SampType: <b>LCS</b>	TestCod	e: 1311_M	Units: mg/L		Prep Dat	e: <b>2/2/200</b>	6	Run ID: ICF	_1_060203B	 }
Client ID: ZZZZZ	Batch ID: 1184	TestN	lo: <b>SW1311</b> /6	010 (SW3010A)		Analysis Dat	e: <b>2/3/200</b>	6	SeqNo: 109	. 800	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.9745	0.0180	1	0.01011	96.4	75	125	0	0		
Barium	1.524	0.00300	1	0.498	103	75	125	0	0		В
Cadmium	1.134	0.00300	1	0	113	75	125	0	0		
Chromium	0.9983	0.00300	1	0.002221	99.6	75	125	0	0		
Lead	0.9575	0.00500	1	0.002209 .	95.5	75	125	0	0		
Selenium	1.003	0.0110	1	0.003344	100	75	125	0	0		
Silver	1.108	0.0200	1	0	111	75	125	0	0		
Sample ID LCSD_1184	SampType: LCSD	TestCod	de: 1311_M	Units: mg/L	<del></del>	Prep Dat	te: <b>2/2/20</b> 0	)6	Run ID: ICI	P_1_060203E	3
Client ID: ZZZZZ	Batch ID: 1184	Test	No: SW1311/	6010 (SW3010A)		Analysis Dat	te: <b>2/3/20</b> 0	06	SeqNo: 10	9039	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.9505	0.0180	1	0.01011	94	75	125	0.9745	2.49	20	
Barium	1.477	0.00300	1	0.498	97.9	75	125	1.524	3.16	20	В
Cadmium	1.08	0.00300	1	0	108	75	125	1.134	4.87	20	
Chromium	0.9615	0.00300	1	0.002221	95.9	75	125	0.9983	3.76	20	
Lead	0.9846	0.00500	1	0.002209	98.2	75	125	0.9575	2.80	20	
Selenium	0.9917	0.0110	1	0.003344	98.8	75	125	1.003	1.17	^20	
Silver	1.053	0.0200	1	0	105	75	125	1.108	5.10	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank ·

J - Analyte detected below quantitation limits

CLIENT:

Souder, Miller & Associates

Work Order:

0601030

Project:

Quinn 338 Compressor Pad / 5115155

## ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_M

Sample ID	0601030-001AMS	SampType: MS	TestCod	e: 1311_M	Units: mg/L		Prep Date	e: 2/2/2000	6	Run ID: ICP	_1_060203B	<del></del>
Client ID:	Quinn 338 @ 8 inch	Batch ID: 1184	TestN	lo: <b>SW1311/6</b>	010 (SW3010A)	,	Analysis Dat	e: <b>2/3/200</b> 0	SeqNo: 109041			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		0.8971	0.0180	1	0.01347	88.4	75	125	0	0		
Barium		2.863	0.00300	1	2.185	67.7	75	125	0	0		BS
Cadmium		1.041	0.00300	1	0.004294	104	75	125	0	0		
Chromium		0.9199	0.00300	1	0.002565	91.7	75	125	0	0		
Lead		0.8984	0.00500	1	0.004083	89.4	75	125	0	0		
Selenium		0.8722	0.0110	1	0.01148	86.1	75	125	. 0	0		
Silver		1.001	0.0200	1	0	100	75	125	0	0		
Sample ID	0601030-001AMSD	SampType: MSD	TestCod	de: 1311_M	Units: mg/L		Prep Dat	e: 2/2/200	6	Run ID: ICP	_1_060203B	
Client ID:	Quinn 338 @ 8 inch	Batch ID: 1184	TestN	lo: SW1311/6	6010 (SW3010A)		Analysis Dat	e: 2/3/200	6	SeqNo: 109	042	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		0.9939	0.0180	1	0.01347	98	75	125	0.8971	10.2	20	
Barium		3.211	0.00300	1	2.185	103	75	125	2.863	11.5	20	В
Cadmium		1.142	0.00300	1	0.004294	114	75	125	1.041	9.19	20	
Chromium		1.024	0.00300	1	0.002565	102	75	125	0.9199	10.7	20	
Lead		1.002	0.00500	1	0.004083	99.8	75	125	0.8984	10.9	20	
Selenium		1.009	0.0110	1	0.01148	99.8	75	125	0.8722	14.5	20	
Silver		1.112	0.0200	1	0	111	75	125	1.001	10.5	20	
Sample ID	0601030-001AD	SampType: DUP	TestCo	de: 1311_M	Units: mg/L		Prep Da	te: 2/2/200	)6	Run ID: ICF	P_1_060203E	3
Client ID:	Quinn 338 @ 8 inch	Batch ID: 1184	Test	No: <b>SW1311</b> /	6010 (SW3010A)		Analysis Da	te: <b>2/3/20</b> 0	)6	SeqNo: 109	9043	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		0.005983	0.0180	0	0	0	0	0	0.01347	0	20	J
Barium		1.988	0.00300	0	0	0	0	0	2.185	9.48	20	В
Cadmium		0.004218	0.00300	0	0	0	0	0	0.004294	1.78	20	
Chromium		0.001882	0.00300	0	0	0	0	0	0.002565	0	20	J
Lead		0.003611	0.00500	0	0	0	0	0	0.004083	0	20	J
Selenium		0.005829	0.0110	0	0	0	0	0	0.01148	0	20	J
Silver		< 0.0200	0.0200	. 0	0	0	0	0	0	0	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

Souder, Miller & Associates

Work Order:

0601030

Project:

Quinn 338 Compressor Pad / 5115155

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DR2_S

Olivina Designation of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o	SPK value SP	PK Ref Val	%REC	Analysis Date:	2/2/2006		SeqNo: 108	990	
T/R Hydrocarbons: C10-C28 ND 25.0	<del></del>	PK Ref Val	%REC						
777 Trydrocarbons. O70-020	0			LowLimit F	lighLimit I	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: o-Terphenyl 23.34 U	40	0	0	0	0	0	0		
	40	0	58.4	47	149	0	. 0		
Sample ID MBLK_060202 SampType: MBLK TestCode:	: 8015DR2_S	Units: mg/Kg		Prep Date:	2/2/2006	•	Run ID: GC-	·2_060202A	
Client ID: ZZZZZ Batch ID: R7806 TestNo	: SW8015B			Analysis Date:	2/2/2006	<b>;</b>	SeqNo: 109	001	
Analyte Result PQL	SPK value SP	PK Ref Val	%REC	LowLimit F	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28 ND 25.0	0	0	0	0	0	0	0		
Surr: o-Terphenyl 20.83 0	40	0	52.1	47	149	0	0		
Sample ID LCS_060127 SampType: LCS TestCode	: 8015DR2_S	Units: mg/Kg		Prep Date	1/27/200	)6	Run ID: GC	-2_060202A	
Client ID: ZZZZZ Batch ID: R7806 TestNo	: SW8015B			Analysis Date	2/2/2006	3	SeqNo: 108	993	
Analyte Result PQL	SPK value SF	PK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28 634 25.0	627	0	101	70	130	0	0		
Surr: o-Terphenyl 31.8 0	40	0	79.5	47	149	0	0		
Sample ID LCS_060202 SampType: LCS TestCode	e: 8015DR2_S	Units: mg/Kg		Prep Date	: 2/2/2000	- <del></del>	Run ID: GC	-2_060202A	
Client ID: ZZZZZ Batch ID: R7806 TestNo	: SW8015B			Analysis Date	: 2/2/2000	6	SeqNo: 109	002	
Analyte Result PQL	SPK value SI	PK Ref Val	%REC	LowLimit I	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28 515.8 25.0	501	0	103	70	130	0	0		
Surr: o-Terphenyl 22.42 0	40	0	56	47	149	0	0		
Sample ID 0601030-001AMS SampType: MS TestCode	e: 8015DR2_S	Units: mg/Kg		Prep Date	: 1/27/20	06	Run ID: GC	-2_060202A	
Client ID: Quinn 338 @ 8 inch Batch ID: R7806 TestNo	o: <b>SW8015B</b>			Analysis Date	e: 2/2/200	6	SeqNo: 101	8995	
Analyte Result PQL	SPK value S	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28 524.8 25.0	501	0	105	70	130	9	0		
Surr: o-Terphenyl 32.71 0	40	0	81.8	47	149	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

Souder, Miller & Associates

Work Order:

0601030

Project:

Quinn 338 Compressor Pad / 5115155

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DR2_S

Sample ID 0601045-001AMS Client ID: ZZZZZ	SampType: MS Batch ID: R7806		: 8015DR2_S : SW8015B	Units: mg/Kg		Prep Date Analysis Date	: 2/2/2006 : 2/2/2006		Run ID: GC SeqNo: 109	-2_060202A 9000	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28 Surr: o-Terphenyl	583.8 30.21	25.0 0	501 40	67.08 0	103 75.5	70 47	130 149	0 0	0		
Sample ID 0601030-002AD Client ID: Quinn 338 @ 3 ft B	SampType: DUP Batch ID: R7806		e: 8015DR2_S b: SW8015B	Units: mg/Kg		Prep Date Analysis Date			Run ID: GC SeqNo: 10	-2_060202A 8997	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28 Surr: o-Terphenyl	ND 30.8	25.0 0	0 40	0	0 77	0 47	0 149	0 0	0	15 0	
Sample ID 0601045-001AD Client ID: ZZZZZ	SampType: DUP Batch ID: R7806		e: 8015DR2_5 o: SW8015B	S Units: mg/Kg		Prep Date Analysis Date	e: 2/2/200 e: 2/2/200		Run ID: G0 SeqNo: 10	C-2_060202A 8999	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28 Surr: o-Terphenyl	79.74 32.28	25.0 0	0 40	0 0	0 80.7	0 47	0 149	67.08 0	17.2 0	15 0	R

Souder, Miller & Associates

Work Order:

0601030

Project:

Quinn 338 Compressor Pad / 5115155

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_S

Sample ID MBLK_1176 Client ID: ZZZZZ	SampType: MBLK Batch ID: 1176	TestCode: 8015	_ 3 3		Prep Date	e: 1/27/20		Run ID: GC SegNo: 108	_	A
Analyte	Result		alue SPK Ref Val	%REC	•		RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10 Surr: Trifluorotoluene	ND 2.643	4.50 0	0 0 2.5 0	0 106	0 92.5	0 127	0	0		· · · · · · · · · · · · · · · · · · ·
Sample ID LCS_1176 Client ID: ZZZZZ	SampType: LCS Batch ID: 1176	TestCode: 8015 TestNo: SW8	_		Prep Date Analysis Date		06	Run ID: GC SeqNo: 108	_	A
Analyte	Result	PQL SPK v	alue SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	45.6	4.50	45 0	101	80	120		0		

Souder, Miller & Associates

Work Order:

0601030

Project:

Quinn 338 Compressor Pad / 5115155

# ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID MBLK_1176	SampType: MBLK	TestCod	e: BTEX_S	Units: µg/Kg		Prep Date	: 1/27/20	06	Run ID: GC	-1_060201A	<del></del>
Client ID: ZZZZZ	Batch ID: 1176	TestN	o: <b>SW8021B</b>	(SW5035A)	,	Analysis Date	e: 2/1/200	6	SeqNo: 108		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	50.0	0	0	0	0	0	0	0		
Ethylbenzene	ND	50.0	0	0	0	0	0	0	0		
m,p-Xylene	ND	100	0	0	0	0	0	0	0		
o-Xylene	ND	50.0	0	0	0	0	0	0	0		
Toluene	ND	50.0	. 0	0	0	0	0	0	0		
Surr: 1,4-Difluorobenzene	2531	0	2500	0	101	80	120	0	0		
Surr: 4-Bromochlorobenzene	2484	0	2500	0	99.3	50	140	0	0		
Surr: Fluorobenzene	2540	0	2500	0	102	80	120	0	0		
Sample ID LCS_1176	SampType: LCS	TestCod	de: BTEX_S	Units: µg/Kg		Prep Date	e: 1/27/20	06	Run ID: GC	-1_060201A	
Client ID: ZZZZZ	Batch ID: 1176	TestN	lo: SW8021B	(SW5035A)	1	Analysis Date	e: <b>2/1/20</b> 0	16	SeqNo: 10	8944	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1518	50.0	1500	0	101	85	115	0	0		
Ethylbenzene	1467	50.0	1500	0	97.8	85	115	0	0		
m,p-Xylene	2912	100	3000	0	97.1	85	115	0	0		
o-Xylene	1517	50.0	1500	0	101	85	115	0	0		
Toluene	1607	50.0	1500	0	107	85	115	0	0		
Surr: 1,4-Difluorobenzene	2455	0	2500	0	98.2	80	120	0	0		
Surr: 4-Bromochlorobenzene	2431	0	2500	0	97.3	50	140	0	0		
Surr: Fluorobenzene	2450	0	2500	0	98	80	120	0	0		
Sample ID 0601030-001AMS	SampType: MS	TestCor	de: BTEX_S	Units: µg/Kg		Prep Dat	e:		Run ID: G	C-1_060201A	١
Client ID: Quinn 338 @ 8 inch	Batch ID: 1176	Test/	No: <b>SW8021B</b>	(SW5035A)		Analysis Dat	e: <b>2/1/20</b> 0	)6	SeqNo: 10	8946	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1605	50.0	1500	0	107	80	120	0	0		
Ethylbenzene	1566	50.0	1500	0	104	80	120	0	0		
m,p-Xylene	3118	100	3000	0	104	80	120	0	0		
o-Xylene	1557	50.0	1500	0	104	80	120	0	0		
+											

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

Souder, Miller & Associates

Work Order:

0601030

Project:

Quinn 338 Compressor Pad / 5115155

# ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID 0601030-001AMS Client ID: Quinn 338 @ 8 inch	SampType: MS Batch ID: 1176		e: BTEX_S o: SW8021B	Units: µg/Kg (SW5035A)		Prep Date		6	Run ID: GC SeqNo: 108	_	
Analyte	Result	PQL		SPK Ref Val	%REC	·		RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,4-Difluorobenzene	2463	0	2500	0	98.5	80	120	0	0		
Surr: 4-Bromochlorobenzene	2138	0	2500	0	85.5	50	140	0	0		
Surr: Fluorobenzene	2468	0	2500	0	98.7	80	120	0	0		
Sample ID <b>0601030-001AMSD</b>	SampType: <b>MSD</b>	TestCoo	le: BTEX_S	Units: µg/Kg		Prep Date	:		Run ID: GC	-1_060201A	· · · · · · · · · · · · · · · · · · ·
Client ID: Quinn 338 @ 8 inch	Batch ID: 1176	TestN	lo: <b>SW8021B</b>	(SW5035A)		Analysis Date	e: <b>2/1/2</b> 00	6	SeqNo: 10	3947	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1560	50.0	1500	0	104	80	120	1605	2.85	15	
Ethylbenzene	1519	50.0	1500	0	101	80	120	1566	3.06	15	
m,p-Xylene	3019	100	3000	0	101	80	120	3118	3.22	15	
o-Xylene	1508	50.0	1500	0	101	80	120	1557	3.21	15	
Toluene	1527	50.0	1500	0	102	80	120	1573	2.98	15	
Surr: 1,4-Difluorobenzene	2437	0	2500	0	97.5	80	120	0	0	0	
Surr: 4-Bromochlorobenzene	2133	0	2500	0	85.3	50	140	0	0	0	
Surr: Fluorobenzene	2438	0	2500	0	97.5	80	120	0	0	0	

612 E. Murray Drive Farmington, NM 87401

Off: (505) 327-1072 Fax: (505) 327-1496



P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

February 06, 2006

John Hagstrom Souder, Miller & Associates 612 E. Murray Dr Farmington, NM 87401

TEL: 505-325-5667 FAX 505-327-1496

RE: Quinn 338 Compressor Pad / 5115155

Dear John Hagstrom:

Order No.: 0601030

iiná bá received 2 samples on 1/23/2006 1:40:00 PM for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By: Joffiey J. Engl.

Jeffrey Engels Laboratory Director

Edwina Aspaas

Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.



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# una bá

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iiná bá

Souder, Miller & Associates

CLIENT: Project:

Quinn 338 Compressor Pad / 5115155

Lab Order:

0601030

**CASE NARRATIVE** 

Date: 06-Feb-06

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition. Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

Barium was detected in the associated method blank for the TCLP extraction.

# 606111-00 MOBIL PEGASUS 805 SUPER MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME: MOBIL PEGASUS 805 SUPER SUPPLIER: EXXONMOBIL CORPORATION 3225 GALLOWS RD. FAIRFAX, 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: Lubricants and Specialties: 800-662-4525 800-443-9966 Fuels Products: 800-947-9147 MSDS Fax on Demand: 613-228-1467 MSDS Internet Website: http://emmsds.ihssolutions.com/ 2. COMPOSITION/INFORMATION ON INGREDIENTS CHEMICAL NAMES AND SYNONYMS: SEVERE TREAT MIN. OILS & ADDITIVES GLOBALLY REPORTABLE MSDS INGREDIENTS: OTHER INGREDIENTS: Substance Name Approx. Wt% POLY BUTENYL SUCCINIMIDE 1-5 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: 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): 224(435) (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 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.

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 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: Amber ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 288(550)

MELTING POINT C(F): NA

FLASH POINT C(F): 224(435) (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: 115.0 VISCOSITY AT 100 C, cSt: 14.5

POUR POINT C(F): < -30(-22)

FREEZING POINT C(F): NE

VOC: < 5.00 (Wt. %); 0.358 lbs/gal

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.

#### 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): Practically non-toxic (LD50: greater than 2000 mg/kg). ---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
- 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.

ECOTOXICITY: 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 solubility of this product, therefore bioavailability to aquatic organisms is minimal.

# 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.

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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, METI, 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 product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS

7 INC (FIFMENTAL ANALYSIS) //O 0/4) 7/4/0_66_6 22

ZINC (ELEMENTAL ANALYSIS) (<0.04%) 7440-66-6 22 PHOSPHORODITHOIC ACID, 0,0-DI 68649-42-3 22 C1-14-ALKYL ESTERS, ZINC SALTS (2:

1) (ZDDP) (0.33%)

#### --- REGULATORY LISTS 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 5a2 17=CA P65 REPRO 22=MI 293 8=IARC 2B 13=TSCA 5e 18=CA RTK 3=ACGIH A2 23=MN RTK 19=FL RTK 4=NTP CARC 9=OSHA CARC 14=TSCA 6 24=NJ RTK 5=NTP SUS 10=OSHA Z 15=TSCA 12b 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 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* 1*, MPPEC: A, TRN: 606111-00, CMCS97: 97G051, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 23JAN2002

************

Legally required information is given in accordance with applicable 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 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 any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or retransmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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TEN CE UN UNICOS DALLETTE LAUTUUK

(425)889-4100 1/11/2005 8:36 PAGE 002/010 Fax Server

007 10/12/04 TRIETHYLENE GLYCOL

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j- • <u>-</u>

PRODUCT IDENTIFICATION

PRODUCT NAME:

TRIETHYLENE GLYCOL

MSDS#:

UCN0262M

DATE ISSUED:

03/10/2004

SUPERSEDES:

05/12/2002

ISSUED BY:

008360

MATERIAL SAFETY DATA SHEET

Product Name: Triethylene Glycol Effective Date: 03/10/2004

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# 1.1 IDENTIFICATION

Product Name /Triethylene Glycol P

1.2 COMPANY IDENTIFICATION

Distributed by: Univar USA Inc. 6100 Carillon Point Kirkland, WA 98033 425-889-3400

# 2. COMPOSITION INFORMATION

Component CAS # Amount (%W/W)

Triethylene glycol 112-27-6 >= 98 Diethylene glycol 111-46-6 <= 1%

### 3. HAZARDS IDENTIFICATION

# 3.1 EMERGENCY OVERVIEW Appearance Colorless

Physical

Liquid

State

Odor

Mild

Hazards of product

MAY CAUSE SKIN IRRITATION.

3.2 POTENTIAL HEALTH EFFECTS
Effects of Single Acute Overexposure

Inhalation At room temperature, exposure to vapor is minimal due to low volatility. Mist may cause irritation of upper respiratory tract (nose and throat).

Eye Contact May cause slight temporary eye irritation. Mist may cause eye irritation.

Skin Contact Prolonged contact may cause skin irritation with local redness. May cause more severe response if skin is abraded (scratched or cut).

Skin Absorption Prolonged skin contact is unlikely to result in absorption of

harmful amounts. Massive contact with damaged skin or of material sufficiently hot to burn skin may result in absorption of potentially lethal amounts.

Swallowing Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. May cause nausea or vomiting. May cause abdominal discomfort or diarrhea. May cause dizziness and drowsiness.

Chronic, Prolonged or Repeated Overexposure
Effects of Repeated Overexposure Based on available data, repeated exposures
are not expected to cause significant adverse effects except at very high
aerosol concentrations. Repeated excessive aerosol exposures may cause
respiratory tract irritation and even death. Triethylene glycol did not cause
birth defects in animals; other effects were seen in the fetus only at very
high doses which caused toxic effects to the mother.

Other Effects of Overexposure No information available. See Section 11 for toxicological information and additional information about potential health effects.

- 3.3 POTENTIAL ENVIRONMENTAL EFFECTS
  See Section 12 for Ecological Information.
- 4. FIRST AID PROCEDURES
- 4.1 INHALATION

Move person to fresh air; if effects occur, consult a physician.

## 4.2 EYE CONTACT

Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

4.3 SKIN CONTACT

Wash skin with plenty of water.

#### 4.4 SWALLOWING

Do not induce vomiting. Seek medical attention immediately. If person is fully conscious give 1 cup or 8 ounces (240 ml) of water. If medical advice is delayed and if an adult has swallowed several ounces of chemical, then give 3-4 ounces (1/3-1/2 cup) (90-120 ml) of hard liquor such as 80 proof whiskey. For children, give proportionally less liquor at a dose of 0.3 ounce (1 1/2 tsp.) (8 ml) liquor for each 10 pounds of body weight, or 2 ml per kg body weight (e.g., 1.2 ounce (2 1/3 tbsp.) for a 40 pound child or 36 ml for an 18 kg child).

# 4.5 NOTES TO PHYSICIAN

Due to structural analogy and clinical data, this material may have a mechanism of intoxication similar to ethylene glycol. On that basis, treatment similar to ethylene glycol intoxication may be of benefit.

In cases where several ounces have been ingested, consider the use of ethanol

and hemodialysis in the treatment. Consult standard literature for details of treatment. If ethanol is used, a therapeutically effective blood concentration in the range of 100 - 150 mg/dl may be achieved by a rapid loading dose followed by a continuous intravenous infusion. Consult standard literature for details of treatment. 4-Methyl pyrazole (Antizol(R)) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol, di- or triethylene glycol, ethylene glycol butyl ether, or methanol intoxication if available.

Fomepizole protocol (Brent, J. et al., New England Journal of Medicine, Feb. 8, 2001, 344:6, p. 424-9): loading dose 15 mg/kg IV, follow by bolus dose of 10 mg/kg every 12 hours; after 48 hours, increase bolus dose to 15 mg/kg every 12 hours. Continue fomepizole until serum methanol, EG, DEG, or TEG are undetectable. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS depression, renal tubular injury, and possible late stage cranial nerve involvement. Respiratory symptoms, including

pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

#### 5. FIRE FIGHTING MEASURES

# 5.1 FLAMMABLE PROPERTIES - REFER TO SECTION 9, PHYSICAL AND CHEMICAL PROPERTIES

#### 5.2 EXTINGUISHING MEDIA

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Do not use direct water stream. May spread fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

# 5.3 FIRE FIGHTING PROCEDURES

Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

- 5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS
  Wear positive-pressure self-contained breathing apparatus (SCBA) and
  protective fire fighting clothing (includes fire fighting helmet, coat,
  pants, boots, and gloves). If protective equipment is not available or not
  used, fight fire from a protected location or safe distance.
- 5.5 UNUSUAL FIRE AND EXPLOSION HAZARDS
  Container may rupture from gas generation in a fire situation.
  Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

# 5.6 HAZARDOUS COMBUSTION PRODUCTS

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

# 16. ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material is Released or Spilled: Small spills: Absorb with materials such as: dirt. Sand. Sawdust. Vermiculite. perlite. Zorb-all(R). Oil-Dri or equivalent filler. Large spills: Dike area to contain spill. Pump into suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

Personal Precautions: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling for additional precautionary measures.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/ or groundwater. See Section 12, Ecological Information.

## 7. HANDLING AND STORAGE

Other Protective Equipment:

Eye Bath, Safety Shower

If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures.

When handling hot material, protect skin from thermal burns as well as from skin absorption.

When prolonged or frequently repeated contact could occur, use chemically protective clothing resistant to this material. Selection of specific items such as faceshield, gloves, boots, apron, or full-body suit will depend on operation.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Liquid

Appearance:

Colorless

Odor:

Mild

Flash Point -Closed Cup:

1770C 350 F Pensky-Martens Closed Cup

ASTM D 93

Flammable Limits In Air:

Lower 0.9 %(V) Upper 9.2 %(V)

Calculated Estimated

Autoignition Temperature:

349 C 660 F

Vapor Pressure:

< 0.01 mmHg 20 C

Boiling Point (760 mmHg):

288 C 550.4 F

Vapor Density (air = 1):

5,2

Specific Gravity (H20 = 1):

1.1255 20 C120 C

Freezing Point:

-4.3 C 24 F

Melting Point:

Not applicable (for liquids)

Solubility in Water (by weight): 100

pH:

8

Molecular Weight:

150 q/mol

Octanol/Water Partition Coefficient - Calculated by Structural Fragment Method: - 1.75

Evaporation Rate (Butyl Acetate = 1): < 0.001

# 10. STABILITY AND REACTIVITY

10.1 STABILITY/INSTABILITY Thermally stable at recommended temperatures and pressures.

## Conditions to Avoid:

Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems.

# Incompatible Materials:

Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

# Thermal Decomposition:

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited

to: Aldehydes. Alcohols. Ethers.

10.2 HAZARDOUS POLYMERIZATION Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

Peroral

Rat; LD50 (16800 - 22060) mg/kg

Percutaneous

Rabbit; LD50 = > 18016 mg/kg

Inhalation

Rat; LC50 = > 4.5 mg/L; 4 hours, Aerosol

#### DEVELOPMENTAL TOXICITY

Triethylene glycol did not cause birth defects in animals; other effects were seen in the fetus only at very high doses which caused toxic effects to the mother.

#### REPRODUCTIVE TOXICITY

In animal studies, did not interfere with reproduction.

CHRONIC TOXICITY AND CARCINOGENICITY

Did not cause cancer in laboratory animals.

#### GENETIC TOXICOLOGY

In Vitro

In vitro genetic toxicity studies were negative.

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMANS
Based on available data, repeated exposures are not expected to cause significant adverse effects except at very high aerosol concentrations.
Repeated excessive aerosol exposures may cause respiratory tract irritation and even death.

#### 12. ECOLOGICAL INFORMATION

## 12.1 ENVIRONMENTAL FATE

Material is ultimately biodegradable. Reaches > 70% mineralization in OECD test(s) for inherent biodegradability. Biodegradation reached in Modified MITI Test (I) (OECD Test No. 301 C) after 28 days: 25 - 92% Biodegradation reached in Modified OECD Screening Test (OECD Test No. 301 E) after 28 days: 23.5 - 63% Biodegradation reached in Modified Zahn-Wellens/EMPA Test (OECD Test No. 302 B) after 28 days: >70 - 95% The rate constant for the vapor phase reaction with photochemically produced hydroxyl radicals at 25C is estimated to be: 3.64E-1 1 cm3/molecule-sec.

BOD (% Oxygen consumption)

Day 5 Day 10 Day 15 Day 20 Day 28/30 12-32% 15-64% 17-86%

#### 12.2 ECOTOXICITY

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 > 100 mg/L in the most sensitive species tested).

Toxicity to Micro-organisms
Bacterial/NA; 16 h; EC50
Result value: > 10000 mg/L

Toxicity to Aquatic Invertebrates water flea (Daphnia magna); LC50

Result value: 39000 mg/L

(425)889-4100 1/11/2005 8:36 PAGE 009/010 Fax Server

PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986) SECTION 313 To the best of our knowledge this product does not contain chemicals at levels which require reporting under this statute.

p.1

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EMERGENCY ?LANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986) SECTION 302

To the best of our knowledge this product does not contain chemicals at levels which require reporting under this statute.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986) SECTIONS 311 AND 312

Delayed (Chronic) Health Hazard: Yes Fire Hazard: No Immediate (Acute) Health Hazard: No Reactive Hazard: No Sudden Release of Pressure Hazard : No

# Toxic SUBSTANCES CONTROL ACT: (TSCA)

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

# CEPA - DOMESTIC SUBSTANCES LIST (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS) The components of this product are on the EINECS inventory or are exempt from EINECS inventory requirements.

# 15.2 STATE/LOCAL

PENNSYLVANIA (WORKER AND COMMUNITY RIGHT-TO-KNOW ACT): PENNSYLVANIA HAZARDOUS SUBSTANCES LIST AND/OR PENNSYLVANIA ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST: The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

Component CAS # 112-27-6 Triethylene glycol >= 98.0000 Diethylene glycol 111-46-6 <= 1.0000%

PENNSYLVANIA (WORKER AND COMMUNITY RIGHT-TO-KNOW ACT): PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCES LIST:

To the best of our knowledge this product does not contain chemicals at levels which require reporting under this statute.

CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND Toxic ENFORCEMENT ACT OF 1986) WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

CAS # Amount Component Formaldehyde 50-00-0 <= 0.0047% 75-07-0 <= 0.0016% Acetaldehyde

CALIFORNIA SCAOMD RULE 443.1 (SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 443.1 % LABELING OF MATERIALS CONTAINING ORGANIC SOLVENTS)

VOC: Vapor pressure <0.01 mmHg at 20 C 2 q/1 VOC

2 q/1 of material less water and less exempted solvents. This section provides selected regulatory information on this product including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable

rules, regulations and laws relating to the product being used.

#### 16. OTHER INFORMATION

16.2 HAZARD RATING SYSTEM

NFPA ratings for this product are: H - 1 F - 1 These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.

16.3 RECOMMENDED USES AND RESTRICTIONS For industrial use.

16.4 REVISION

Revision: 03/10/2004

16.5 LEGEND

Bacterial/NA Non Acclimated Bacteria

Fire H Health

IHG Industrial Hygiene Guideline

Not available N/A

NFPA National Fire Protection Association

Oxidizer Reactivity Trade secret VOL/VOL Volume/Volume Water Reactive W/W WeightNVeight

----- FOR ADDITIONAL INFORMATION -----CONTACT: MSDS COORDINATOR UNIVAR USA INC. DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400 NOTICE

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# iiná bá

# Sample Receipt Checklist

Client Name: SMA1005			Date and Tir	ne Received:	1/23/2006 1:40:00 PM
Work Order Number: 0601030			Received by	:	
Checklist completed by: Signature	1/2 Date	3/06	Reviewed by	: JeM Juitals	1/23/06 Date
Matrix:	Carrier name:	John Hagstrom			
Shipping container/cooler in good condition?		Yes 🗹	No 🗌	Not Present	
Custody seals intact on shippping 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 a	nd 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 temperature in compli	ance?	Yes 🗹	No □ S	,52 g	
Water - VOA vials have zero headspace?	No VOA vials subm	nitted 🗹	Yes 🗌	No 🗍	
Water - pH acceptable upon receipt?		Yes 🗌	No V	VA ge 2	121/06
	Adjusted?	Check	ked by:	,5 C	• 1
Any No and/or NA (not applicable) response n	nust be detailed in the co				
Client contacted:	Date contacted:		Perso	n contacted:	
Contacted by:	Regarding:				
Comments: Samples brough		5 pm and	were s	igned off i	at 15:25.
Time was corrected.		<u> </u>		<u></u>	
Corrective Action:					

	iiná bá (for life's sake) 612 E.		TODY RECORD  Date 1/33/64					Page	ì	5139 of						
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	Phone:	Fax:	Ema	ail:				City:								
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	Sample Identi		San Date	nple Time	Matrix	Pres.	NUM	BTEX	020/52	2/2/2/2			/			Lab ID
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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 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**

e#

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

Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST F	OR APPROVAL TO	O ACCEPT	SOLID	WASTE

1. RCRA Exempt: Non-Exempt: D 4/6/06	4. Generator: Burlington Resources
Verbal Approval Received: Yes No 🗆	5. Originating Site: San Juan 29-7 #86 M
2. Management Facility Destination JFJ Landfarm L.L.C.	6. Transporter: Riley Industries
3. Address of Facility Operator: Industrial Ecosystems Inc. #81 County Road 3150 Aztec, New Mexico 87410	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) UL-L, Section 17, T29, R07	\$ 22 77 VZ VZ VZ VZ VZ VZ VZ VZ VZ VZ VZ VZ VZ
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  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	secessary 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 transporters	
BRIEF DESCRIPTION OF MATERIAL: <u>Disposal of contaminated spilled hydraulic</u> on drilling rig.	oil est.10 gallons and soil, hydraulic hose broke
Estimated Volume Known Volume (to be entered by the operator at	the end of the haul)
SIGNATURE TITLE: Business Man Waste Management Facility Authorized Agent	ager DATE: 4/lo/Ole
TYPE OR PRINT NAME: Vince Scott	TELEPHONE NO: 505-632-1782
E-MAIL: vince@industrialecosystems.com	
(This space for State Use)	
APPROVED BY: TITLE:	DATE:
APPROVED BY: TITLE:	DATE;
•	



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address	2. Destination Name:
Burlington Resources	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
3401 E 30 th . St.	#81 CR 3150
Farmington, New Mexico 87499	Aztec, NM 87410
	Phone # 505-632-1782 Fax No# 505-632-1876
J. Griginaring one (many)	ocation of the Waste (Street address &/or ULSTR):
San Juan 29-7 # 86 MUL- Q S- 17 T- 29 R-S	or attach list
AWS Drilling Rig 449 attach list of originating sites as appropriate	No Vivel
4. Source and Description of Waste Spilled hydraulic oil est. 10 gallons and soil. Hydraulic hose	broke on Rig. NSOS ( VILLA 3)
5. Bill to: Drilling Dept. Darren Kirkpatrick	
I. Gregg War + 2 representative for: Print Name	
Burlington Resources	do hereby certify that, according to the Resource
Conservation and Recovery Act (RCRA) and Environmental Protection	n Agency's July, 1988, regulatory determination, the above
described waste is: (Check appropriate classification)	
EXEMPT oilfield waste  NON-EXEM analysis or by	IPT oilfield waste which is non-hazardous by characteristic product identification
and that nothing has been added to the exempt or non-exempt non -ha	zardous waste defined above.
RCRA Hazardous Waste Analysis Chain of Custody	ther (description
This waste is in compliance with Regulated Levels of Naturally Oc NMAC 3.1 subpart 1403.C and D.	ccurring Radioactive Material (NORM) pursuant to 20
Name (Original Signature): 2007	
Date:	





HYDC0180

# SUPER HYDRAULIC OIL 22,

# CHEMICAL PRODUCT/COMPANY IDENTIFICATION

**Product Use** 

Antiwear Hydraulic Fluid

Tradenames and Symonyms

7447, 7448, 7449, 7450 - Conoco Base Codes

Company Identification ..

MANUFACTURER/DISTRIBUTOR

Conoco, Inc. PO Box 2197

Houston, TX 77252

PHONE NUMBERS

Product Information

1-713-293-5550

Transport Emergency

Medical Emergency

1-800-424-9300 (Canada 1-613-348-3616) 1-800-441-3637 (Canada 1-613-348-3616)

# COMPOSITION/INFORMATION ON INGREDIENTS

# Components

Material

CAS Number

Highly Refined Base Oils

.95-100 0-1--

*Zinc Compound

68649-42-3

Proprietary Additives

<5

# If gil mist is generated, exposure limits apply.

* Disclosure as a toxic chemical is required under Section S13 of Title III of the Superfund Accordants and Reauthorization Act of 1988 and 40 CFR part 372.

(Continued)

# HAZARDS IDENTIFICATION

# Potential Health Effects

Primary Houte of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

Carcinogenicity Information None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA on ACCT as a carcinogen.

#### FIRST AID MEASURES

# First Aid ... INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

# SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

If injected under the skin, necrosis could occur. See physician.

# EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

# INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person Call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

High velocity injection under the skin can cause a bloodless. puncture wound and result in necrosis. Immediate attention by a surgical specialist is recommended.

# FIRE FIGHTING MEASURES

Flaggable Properties

Flash Point

355 F (179 C) (Minimum, Grade 22) 375 F (191 C) (Minimum, Grade 32) 385 F (196 C) (Minimum, Grade 46) 400 F (204 C) (Minimum, Grade 68) Cleveland Open Cup - COC.

聞ethod

Autoignition . 650 F (343 C) Flammable limits in Air. % by Volume Undetermined. UEL Undetermined

NFPA Classification Class IIIB Combustible Liquid

Extinguishing Media Water Spray, Foam, Dry Chemical, CO2,

Fire Fighting Instructions Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water may be used to flush spills away from

Products of combustion may contain carbon monoxide, carbon dicxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

# ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review fire fighting measures and handling (Personnel) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, watenways, low areas.

Spill Clean Up

exposures.

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

# HANDLING AND STORAGE

Handling (Personnel)

HYDC0180 3224 3334 324.

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

(Continued)

# HANDLING AND STORAGE(Continued)

Handling (Physical Aspects) Close container after each use. Do not pressurize, cut, weld. braze, solder, grind, or drill on or near full or empty contained. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Store in accordance with National Fire Protection Association recommendations. Store in a well ventilated place. Store in a clean, dry place. Store away from oxidizers, heat, sparks and flames.

# EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls VENTILATION Normal shop ventilation.

Personal Protective Equipment

RESPIRATORY PROTECTION None normally required except in emergencies or when conditions. cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

PROTECTIVE GLOVES Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

EYE PROTECTION Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT Coveralls with long sleeves if splashing is probable.

f Exposure Guidelines Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

PEL (OSHA)

TLV (ACGIH)

S mg/m3, 8 Hr. TWA, STEL 10 mg/m3

Notice of Intended Changes (1995-1996)

5 mg/m3, 8 Hr. TWA, severely refined

AEL @ (DuPont) 5 mg/m3, 8 Hr. TWA

* AEL is Outont's Acceptable Exposure Limit. Where governmentally imposed occupational limits which are lower than the AEL are in offect, such limits shall take proceedage?

# PHYSICAL AND CHEMICAL PROPERTIES

Physical Data Boiling Point Vapor Pressure Vapor Density % Volatiles ">555-1060 F (291-571 C) Lin >1 (Air=1.0) Nil Evaporation Rate Nil Insoluble Solubility in Water Petroleum Hydrocarbon (mild). -Liquid... Form Yellow, Amber to Brown. 0.86-0.88 @ 60 F (16 C). Color Specific Gravity 7.16-7.35 lb/gal @ 60 Fa (462G) Density

# STABILITY AND REACTIVITY

Chemical Stability
Stable at normal temperatures and storage conditions.

Conditions to Avoid Heat, sparks, and flames.

Incompatibility with Other Materials
Incompatible or can react with strong oxidizers.

Decomposition

Normal combustion forms oxides of carbon and may produce minor quantities of oxides of nitrogen, phosphorus, sulfur, and zinc.

Polymerization will not occur.

## TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent refined petroleum distillates similar to ingredients in this products have not caused skin tumors.

Animal skin exposure studies show high concentrations of zinc organic phosphates cause testicular atrophy, but this effect appears related to stress from the chemical causing severe skin irritation. Low concentrations of the zinc component, as occurs in lubricant products, would not have caused testicular damage.

(Continued

# **ECOLOGICAL INFORMATION**

Recotoxicological Information
No specific aquatic data available for this product

# DISPOSAL CONSIDERATIONS

Waste Disposal
Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

• • • •

Container Disposal
Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

## TRANSPORTATION INFORMATION

Shipping Information

Not regulated.

ICAO/IMO Not restricted.

Shipping Information -- Canada
This material is Not Regulated.

# REGULATORY INFORMATION

U.S. Federal Regulations
OSHA HAZARD DETERMINATION
Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SARA, TITLE III, 302/304
This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

The second of

Acute : No Chronic : No Fire : No Reactivity : No

HYDS0160

(Continued)

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# REGULATORY INFORMATION(Cappinued)

Pressure : No

SARA, TÎTLE III. 313 This material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements:

Toxic Chemical

Zinc Compound.

**TSCA** 

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable, or reactive according to U.S. definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a hazardous waste. If it is a hazardous waste regulations listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

CLEAN WATER ACT The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient . Reportable Quantity Petroleum Hydrocarbons. Film or sheen upon or discoloration of any water surface.

State Regulations (U.S.) CALIFORNIA "PROP 65"

This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT. This material may contain the following ingredient(s) subject to the Pennsylvania and Community Right to Know Hazardous Substances List.

Ingredient Category

Zinc Compound. Environmental Hazard.

Canadian Regulations

This is not a WHMIS Controlled Product.

Transport/Medical Emergency Phone Number: 1-613-348-3616

(Continued)

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# OTHER INFORMATION

NFPA, NPCA-HMIS NFFA Rating Health Flammability Reactivity

NPCA-HMIS Rating Health Flammability Reactivity

Personal Protection rating to be supplied by user depending on use

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: MSDS Administrator

Address

: Conoco Inc.

: PO Box 2197 :: Houston; TX 77252 : 1-713-293-5560

Telephone

# Indicates updated section.

End of MSDS

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesía, NM 88210
District III
1000 Río 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 March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: Non-Exempt: Verbal Approval Received: Yes No	4. Generator: Burlington Resources  5. Originating Site: San Juan 29-7 #86 M
Management Facility Destination	6. Transporter: Riley Industries 234567
3. Address of Facility Operator: Industrial Ecosystems Inc. #81 County Road 3150 Aztec, New Mexico 87410	8. State: New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New Mexico New New New Mexico New Mexico New New New New New New New New New N
7. Location of Material (Street Address or ULSTR) UL-L, Section 17, T29, R07	CST. 3
9. Circle One:  A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  B. 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  All transporters must certify the wastes delivered are only those consigned for transporters per per per per per per per per per per	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be sort.  boil est.10 gallons and soil, hydraulic hose broke
SIGNATURE TITLE: Business Mana Waste Management Facility Authorized Agent	ger DATE: 4/6/06
TYPE OR PRINT NAME: Vince Scott	TELEPHONE NO: 505-632-1782
E-MAIL: vince@industrialecosystems.com	
(This space for State Use)	
APPROVED BY: TITLE:	DATE:
APPROVED BY:	DATE:



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson Governor Joanna Prukop Cabinet Secretary

Lori Wrotenbery Director Oil Conservation Division

# **CERTIFICATE OF WASTE STATUS**

_		
	1. Generator Name and Address	2. Destination Name:
1	Burlington Resources	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
į.	3401 E 30 th . St.	#81 CR 3150
}	Farmington, New Mexico 87499	Aztec, NM 87410
		Phone # 505-632-1782 Fax No# 505-632-1876
ľ	3. Originating Site (name):	ocation of the Waste (Street address &/or ULSTR):
	San Juan 29-7 # 86 MUL- <u>R</u> S- <u>17</u> T- <u>29</u> R-	or attach list
)		treet Address:
1	AWS Drilling Rig 449	, <i>u</i>
L	attach list of originating sites as appropriate	
	4. Source and Description of Waste	Ora // Char Ora
ĺ	Spilled hydraulic oil est. 10 gallons and soil. Hydraulic hose b	broke on Rig. Was Signature of the same of
t	5. Bill to: Drilling Dept. Darren Kirkpatrick	——————————————————————————————————————
•		
	$c = u_1 + v_2$	
[, ,	Gregg Wurtz representative for:	
-	Print Name	
	rlington Resources	do hereby certify that, according to the Resource
Conserv	ation and Recovery Act (RCRA) and Environmental Protection	a Agency's July, 1988, regulatory determination, the above
describe	d waste is: (Check appropriate classification)	
<b>X</b> _E;	<b>XEMPT</b> oilfield waste $X$ NON-EXEM	PT oilfield waste which is non-hazardous by characteristic product identification
Tar.	analysis or by	product identification
(h),		•
and that	nothing has been added to the exempt or non-exempt non-haz	ardous waste defined above.
For NO	N-EXEMPT waste the following documentation is attached (cl	hock appropriate items).
		her (description
	RCRA Hazardous Waste Analysis	···· (acateapriori
	Chain of Custody	
This we	ste is in compliance with Regulated Levels of Naturally Occ	purring Pudioactive Mutarial (NOBM) numero 4 4- 20
TBIS WE	3.1 subpart 1403.C and D.	cutting Radioactive Material (NORM) pursuant to 20
AMARKE	J.1 Support 1703.C and D.	
AT 14	I were the ty	
Name (	Original Signature): ////////////////////////////////////	
m'al	T = T = 1	
	Env. Rep	
Date:	<del></del>	
	' / '	



HYDC0180

Revised 29-NOV-1995

# SUPER HYDRAULIC OIL 22,

# CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Product Use

Antiwear Hydraulic Fluid

Tradenames and Synonyms

7447, 7448, 7449, 7450 - Conoco Base Codes

Company Identification -

MANUFACTURER/DISTRIBUTUR

Conoco, Inc. PO Box 2197

Houston, TX 77252

PHONE NUMBERS

Product Information

1-713-293-5550

Transport Emergency

Medical Emergency

1-800-424-9300 (Canada 1-613-348-3616) 1-800-441-3637 (Canada 1-613-348-3616)

# COMPOSITION/INFORMATION ON INGREDIENTS

## Components Material

CAS Number

Highly Refined Base Oils

95-100

*Zinc Compound

68649-42-3 0-1--

Proprietary Additives

<5

If gil mist is generated, exposure limits apply.

* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Agendments and Resutborization Act of 1986 and 40 CFR part 372.

(Continued)

# HAZARDS IDENTIFICATION

#### Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

Carsinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP/3/OSHA on ACG as a carcinogen.

## FIRST AID MEASURES

# First Aid INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

# SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

If injected under the skin, necrosis could occur. See physician.

#### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

#### INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

High velocity injection under the skin can cause a bloodless puncture wound and result in necrosis. Immediate attention by a surgical specialist is recommended.

(Continued)

#### FIRE FIGHTING MEASURES

Flagmable Properties

355 F (179 C) 375 F (191 C) 385 F (196 C) (Minimum, Grade 22) (Minimum, Grade 32) (Minimum, Grade 46) (Minimum, Grade 68) Flash Point

400 F (204 C)

Method Cleveland Open Cup - COC.

650 F (343 C) Autoignition : Flammable limits in Air, % by Volume Undetermined. UEL Undetermined

NFPA Classification ... Class IIIB Combustible Liquid

Extinguishing Media Water Spray, Foam, Dry Chemical, CO2,

Fire Fighting Instructions Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water may be used to flush spills away from exposures.

Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

#### ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel')

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers waterways, low areas.

Spill Clean Up

APPLICATION AND SERVICE AND ADDRESS OF

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

# HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

(Continued)

# HANDLING AND STORAGE(Continued)

Handling (Physical Aspects) close container after each use. Do not pressurize, cut, weld braze, solder, grind, or drill on or near full on empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a well ventilated place. Store in a clean, dry place. Store away from oxidizers, heat, sparks and flames.

# EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls VENTILATION Normal shop ventilation

Personal Protective Equipment RESPIRATORY PROTECTION

None normally required except in emergencies or when conditions. cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

PROTECTIVE GLOVES Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

EYE PROTECTION Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT Coveralls with long sleeves if splashing is probable.

Exposure Guidelines Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

5 mg/m3, 8 Hr. TWA PEL (OSHA)

5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3 Notice of Intended Changes (1995-1996) TLV ACGIH)

5 mg/m3, 8 Hr. TWA, severely refined

5 mg/m3, 8 Hr. TWA AEL * (DuPont)

* AEL is Dufont's Acceptable Exposure Limit. Where governmentally imposed occupational limits which are lower than the AEL are in effect, such limits shall take procedure?

# PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

">555-1060 F (291-571

Boiling Point Vapor Pressure Vapor Density

Nil >1 (Air=1.0)

% Volatiles Evaporation Rate Nil Nil

Solubility in Water

Insoluble

Odor

Petroleum Hydrocarbon (mild) ... Liquid.

Form . Color

Specific Gravity

Yellow, Amber to Brown.

Density

0.86-0.88 @ 60 F (16 C) 7.16-7.35 lb/gal @ 60 F ((6.86)

## STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with strong oxidizers.

Decomposition

Normal combustion forms oxides of carbon and may produce minor quantities of oxides of nitrogen,

phosphorus, sulfur, and zinc.

Polvmerization

Polymerization will not occur.

## TOXICOLOGICAL INFORMATION

Animal Data : 🐃

Mouse skin painting studies have shown that highly solvent retined petroleum distillates similar to ingredients in this products have not caused skin tumors.

Animal skin exposure studies show high concentrations of Zinc organic phosphates cause testicular atrophy, but this effect appears related to stress from the chemical causing severe skin irritation. Low concentrations of the zinc component, as occurs in lubricant products, would not have caused testicular damage.

# **ECOLOGICAL INFORMATION**

Ecotoxicological Information No specific aquatic data available for this product

#### DISPOSAL CONSIDERATIONS

Waste Disposal Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

## TRANSPORTATION INFORMATION

Shipping Information DOT Not regulated.

> ICAO/IMO Not restricted.

Shipping Information -- Canada This material is Not Regulated.

#### REGULATORY INFORMATION

V.S. Federal Regulations OSHA HAZARD DETERMINATION

Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910,1200.

CERCLA/SUPERFUND Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

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This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute No Chronic No Fire No Reactivity: No

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#### REGULATORY INFORMATION(Continued)

Pressure : No

SARA, TITLE III, 313
This material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements:

Toxic Chemical

Zinc Compound.

TSCA Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

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CLEAN WATER ACT
The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient Reportable Quantity Petroleum Hydrocarbons. Film or sheen upon or discoloration of any water surface.

State Regulations (U.S.) CALIFORNIA "PROP 65"

This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT This material may contain the following ingredient(s) subject to the Pennsylvania and Community Right to Know Hazardous Substances List.

Ingredient Category

Zinc Compound . Environmental Hazard.

Canadian Regulations

This is not a WHMIS Controlled Product.

Transport/Medical Emergency Phone Number: 1-613-348-3616

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OTHER INFORMATION

NFPA, NPCA-HMIS NFPA Rating Health

Health Flammability Reactivity

NPCA-HMIS Rating

Health Flammability Reactivity

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : MSDS Administrator

Address

Conoco Inc. PO Box 2197

>

Houston, TX 77252

Telephone

1-713-293-5550

# Indicates updated section.

End of MSDS

District I 1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 strict III

O Rio Brazos Road, Aztec, NM 87410 strict 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

Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REOU	JEST	<b>FOR</b>	APPRO'	VAL	TO.	ACCEPT	<b>SOLID</b>	WASTE
------	------	------------	--------	-----	-----	--------	--------------	-------

1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator . BP America Production Co.							
Verbal Approval Received: Yes ⊠ No ☐ ok by Denny 4/26/2006 @ 10:35am	5. Originating Site State G.C, AA #1							
Management Facility Destination	6. Transporter:							
3. Address of Facility Operator: JFJ Landfarm C/o Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	8. State: New Mexico							
7. Location of Material (Street Address or ULSTR) UL -K, Section 36, T30N, R08W	EUS 22 12 12 12 18 18 18 18 18 18 18 18 18 18 18 18 18							
9. <u>Circle One</u> :	00,00							
<ul> <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> </ul>								
All transporters must certify the wastes delivered are only those consigned for transp	port.							
BRIEF DESCRIPTION OF MATERIAL:  Disposal of lube oil contaminated soil from clean up around pump jack engine; this is a	used lube oil from leaks on or around the engine.							
Estimated Volume Known Volume (to be entered by the operator at the	ne end of the haul) to be announced							
SIGNATURE Waste Management Facility Authorized Agent  TITLE: Manager	DATE: <u>04-28-2006</u>							
TYPE OR PRINT NAME: Vince Scott TELEPHONE NO. (S	505) 632-1782							
EMAIL ADDRESS: vince@industrialecosystems.com								
(This space for State Use)								
APPROVED BY:	DATE;							
APPROVED BY: TITLE:	DATE:							



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

From-BP

Governor **Betty Rivera** Cabinet Secretary

Lori Wrotenbery Director Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

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1. Generator Name and Address	2. Destination Name:								
BP America Production Company	J.F.J. Landfarm C/o Industrial Boosystems Inc.								
200 Energy Court	#81 CR 3150 Azrec, NM 87410								
Farmington, NM 87401	Phone#: 505-632-1782								
Fax#: 505-334-1003									
	ocation of the Waste (Street address &/or ULSTR):								
State GC AA 1	State GC AA 1 UL- K S-36 T-30N R-8W OF								
attach list of originating sites as appropriate Street Addr	ess -								
4. Source and Description of Waste	/ -								
Tube oil contaminated soil	from cleanup around pump								
sack engine. This is used luke	from cleanup around pump oil from leaks on or around the								
engine									
Les Han Cond									
I, LEVIN TRINSTORM	representative for :								
Print Name									
YD A da-	d. hash. and from a consultant of the Younger								
BP America  Conservation and Recovery Act (RCRA) and Environmental Protection	do hereby certify that, according to the Resource								
described waste is: (Check appropriate classification)	Agency 5 July, 1968, regulatory determination, the above								
described waste is. (encor appropriate emissionation)									
EXEMPT oilfield waste NON-EXEMP	T oilfield waste which is non-hazardous by characteristic								
	product identification								
• •	'								
and that nothing has been added to the exempt or non-exempt non-haz	ardous waste defined above.								
For NON-EXEMPT waste the following documentation is attached (cl	heck appropriate items):								
	ner (description								
RCRA Hazardous Waste Analysis									
✓ Chain of Custody									
This waste is in compliance with Regulated Levels of Naturally Occ	curring Radioactive Material (NORM) pursuant to 20								
NMAC 3.1 subpart 1403.C and D.									
Name (Original Signature)	Phone Contact: 505-326-9279								
Name (Original Signature) Two Sams Jana Total Coordinator	Pay Key/Workorder ZDW ROJENVI								
Date: 4/26/06									
* .									

#### TRACE METAL ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Soil Stockpile	Date Reported:	03-20-06
Laboratory Number:	36469	Date Sampled;	03-16-06
Chain of Custody:	15681	Date Received:	03-17-06
Sample Matrix:	Soil	Date Analyzed:	03-20-06
Preservative:	N/A	Date Digested:	03-17-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration arameter (mg/Kg)		TCLP Regulatory Level (mg/Kg)
		ŧ	
Arsenic	0.052	0.001	5.0
Barium	6.45	0.001	100
Cadmium	0.009	0.001	1.0
Chromium	0.205	0.001	5.0
Lead	0.244	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

State GC AA #1 5-Point Composite.

# **CHAIN OF CUSTODY RECORD**

15681

Client / Project Name Project Location  STATE GO			on GC AA #1					ANALYS	IS / PARAME	TERS		-	:	
Sampler:	<del></del>	Client No.				r,n	3 %				Remark			
Sampler: ) - C /S/	55		94034	-010			No. of ontainer	8 RCRA						
Sample No./	Sample Date	Sample Time	Lab Number	Sample Matrix			No. of Containers	30						
SOIL STOCKPILE	3/16/00	ගදිත	36469	5	SOIL		{	×			5-R	ont Co	nga	151 K
	1						-							<del></del> .
	-													<del></del>
Relinquished by: (Signatu	295	•	3	Date 17/2	Time:	1 1/4	سب	Signature	Lue-			Date 5/17 /06	1	me 20
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Relinquished by: (Signal)	re)			}	j	Receive	ed <b>b</b> y: (	Signature	9)				-	
					RO	TEC	川	INC	<u> </u>		Samp	e Receipt	1	
			i	57	'96 U.S	. High	way 6	4		Re	eceived Intac	t ¿	N	N/A
				Farmin		632-06		Q/4U I		Coc	ol - Ice/Blue I	ce _		

1625 N. French Dr., Hobbs, NM 88240 District II

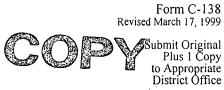
1301 W. Grand Avenue, Artesia, NM 88210

District III 00 Rio Brazos Road, Aztec, NM 87410 strict IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

APPROVED BY:

# State of New Mexico Energy Minerals and Natural Resources

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



DATE:

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ☑  Verbal Approval Received: Yes ☑ No ☐ ok by Denny 4/26/2006 @ 10:35am	4. Generator . BP America Production Co.  5. Originating Site State G.C, AA #1
Management Facility Destination	6. Transporter:
3. Address of Facility Operator: JFJ Landfarm C/o Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	8. State: New Mexico PECENE, DIST. 8
7. Location of Material (Street Address or ULSTR) UL -K, Section 36, T30N, R08W	33 13 03 EL M
<ul> <li>9. <u>Circle One</u>:</li> <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 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:  Disposal of lube oil contaminated soil from clean up around pump jack engine; this is t	
Estimated Volume Known Volume (to be entered by the operator at the	le end of the haul) to be announced
SIGNATURE TITLE: Manager  Waste Management Facility Authorized Agent	DATE: <u>04-28-2006</u>
TYPE OR PRINT NAME: Vince Scott TELEPHONE NO. (5	505) 632-1782
EMAIL ADDRESS: <u>vince@industrialecosystems.com</u>	<del></del>
(This space for State Use)	
APPROVED BY: TITLE:	DATE:

TITLE

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

From-BP

Governor **Betty Rivera** Cabinet Secretary

Lori Wrotenbery Director DiRConservation Division

# CERTIFICATE OF WASTE STATUS

	Generator Name and Address	2. Destination Name:					
	BP America Production Company	J.F.J. Landfarm C/o Industrial Ecosystems Inc.					
	200 Energy Court	#81 CR 3150 Azrec, NM 87410					
	Farmington, NM 87401	Phone#: 505-632-1782					
	Fax#: 505-334-1003						
		Location of the Waste (Street address &/or ULSTR):					
	State GC AA 1	UL-K S-36 T-30N R-8W or					
	attach list of originating sites as appropriate Street Ad	dress -					
	4. Source and Description of Waste  Lube Oil Contaminated 50.	il from cleanup around pump e oil from leaks on or around the					
	Jack engine. This is used luke	e oil from leaks on or around the					
	engine						
	Levin Hansford						
I,	Print Name	representative for :					
<u>BP Am</u>		do hereby certify that, according to the Resource					
	vation and Recovery Act (RCRA) and Environmental Protection waste is: (Check appropriate classification)	on Agency's July, 1988, regulatory determination, the above					
E		IPT oilfield waste which is non-hazardous by characteristic by product identification					
and tha	nothing has been added to the exempt or non-exempt non -h	azardous waste defined above.					
For NO	N-EXEMPT waste the following documentation is attached  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	(check appropriate items): Other (description					
	aste is in compliance with Regulated Levels of Naturally O 3.1 subpart 1403.C and D.	ccurring Radioactive Material (NORM) pursuant to 20					
	Original Signature						
Fitte:£	ield Environmental Condinator	Pay Key/Workorder: ZOW 807 ENVT					
Date:	1/36/06						



# TRACE METAL ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Soil Stockpile	Date Reported:	03-20-06
Laboratory Number:	36469	Date Sampled:	03-16-06
Chain of Custody:	15681	Date Received;	03-17-06
Sample Matrix:	Soil	Date Analyzed:	03-20-06
Preservative:	N/A	Date Digested:	03-17-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)		Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.052	,	0.001	5.0
Barium	6.45		0.001	100
Cadmium	0.009		0.001	1.0
Chromium	0.205		0.001	5.0
Lead	0.244		0.001	5.0
Mercury	ND		0.001	0.2
Selenium	ND		0.001	1.0
Silver	ND		0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

State GC AA #1 5-Point Composite.

Mathem Wasters Review

# CHAIN OF CUSTODY RECORD

15681

BLAGE BP STATE GC AA # 1  Sample:  Client No.  94034-010  Sample No.J   Sample No.J   Sample   Lab Number   Sample   Matrix    Soil   StrockPllR   3/1400 0920 36469   Soil   X   S-Rout Corpus K  Relinquished by: (Signature)  1- C - Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Strock   Stroc	·			<del></del>													2006 3005	
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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

mul. -

# 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 Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

# REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☐  □ Verbal Approval Received: Yes ☐ No ☐ Note: Got phone  approval with Ed Martin 5/3/2006 @ 7:15am	4. Generator: Dennis Beasley XTO Energy Inc. 2700 Farmington Ave, Bldg K, Ste 1 Farmington, NM 8740  5. Originating Site: Finney 4-12U
Management Facility Destination JFJ Landfarm L.L.C.	6. Transporter: IEI, Unit # 2023
3. Address of Facility Operator: Industrial Ecosystems Inc. #81 County Road 3150 Aztec, New Mexico 87410	8. State: New Mexico New Mexico
7. Location of Material (Street Address or ULSTR) Section 12L – 34N – 08W, La Plata County, Colorado	12 12 12 12 12 12 12 12 12 12 12 12 12 1
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  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 classification approved  All transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters motor oil mixed in with production pit contents (approx. 10 bbls)  Estimated Volume Known Volume (to be entered by the operator at	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be port.
SIGNATURE Waste Management Facility Authorized Agent  TITLE: Business Management Facility Authorized Agent	nger DATE: <u>5-3-2006</u>
TYPE OR PRINT NAME: Vince Scott	TELEPHONE NO: 505-632-1782
E-MAIL: vince@industrialecosystems.com	
(This space for State Use)  APPROVED BY:  TITLE:  TITLE:	DATÉ: DATE:



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

#### **BILL RICHARDSON**

Governor Joanna Prukop Cabinet Secretary

Lori Wrotenbery Director Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1 Gen	erator Name and Address	2. Destination Name:
<b>I</b>	TO Energy Inc.	J. F. J. Landfarm C/o Industrial Ecosystems Inc
	00 Farmington Ave., Bldg	K, Ste 1 #81 CR 3150
	rmington, New Mexico 87	
3. Orig	inating Site (name):	Location of the Waste (Street address &/or ULSTR):
Finr	ney 4-12U	Sec. 12L-34N-8W La Plata County, Colorado
attach li	ist of originating sites as appropri	riate
4. Sot	urce and Description of Waste	
Tie	ed mater oil mived with areduce	action pit contents (<10 bbl total).
Usi	at motor on maked with broads	etion pit contents (<10 bbl total).
Contac	t Person: Dennis Beasley (970)	759-9550
1 122 - 631		
I, Kim Cham	plin, Torey Cardona, and/	for Lisa Winn representative for XTO Energy Inc. do hereby certify that,
according to me	Resource Conservation and Reco	Overy Act (RCRA) and Environmental Protection Agency's July 1999
ucicininiation, ui	e above described waste is: (Che	eck appropriate classification)
EXEMPT oil	field waste	_X_NON-EXEMPT oilfield waste which is non-hazardous by characteristic
	_	analysis or by product identification and that nothing has been added to the
		exempt or non-exempt non hazardous waste defined above.
For NON FYEM	IPT monto the fellowing design	
MSDS	S Information	entation is attached (check appropriate items):
	A Hazardous Waste Analysis	Other (description
	n of Custody	
This waste is in a	compliance with Regulated Leve	vels of Naturally Occurring Radioactive Material (NORM) pursuant to 20
NVIAC 5.1 Subp	art 1403.C and D.	
Name (Original S	Signature): <u>Kim Champlin</u>	pim Champin
Title: EH&S A	ssistant	
Phone Number:	<u>505-566-7954</u>	
D-4. AF/AG/AAA		
)ate: <u>05/03/2006</u>	!	

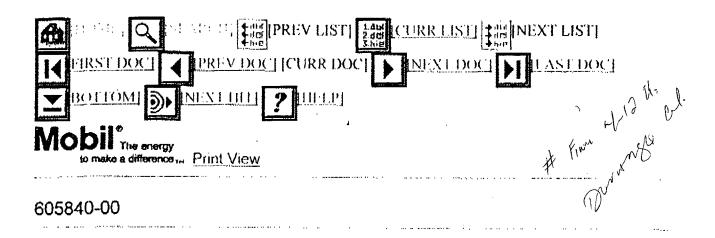
Oil Conservation Division * 1000 Rio Brazos Road * Aztec, New Mexico 87410 Phone: (505) 334-6178 * Fax (505) 334-6170 * http://www.emnrd.state.nm.us

Farmington, NM 87401 505-327-9280 Telephone 505-327-9302 Fax





To: VINCE	)	From:	Don
Fax:	4	Pages:	
Phone:		Date:	4
Re:		CC:	Ů
□ Urgent	☐ For Review		Please Comment
☐ Please Reply	•	☐ Please Re	ecycle
• Comments:	Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Variable Var	A SALAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER	
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	Mobil P.	PG-ASU	s 15w40
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605840-00 MOBIL PEGASUS SPECIAL 15W-40 MATERIAL SAFETY DATA BULLETIN

#### 1. PRODUCT AND COMPANY IDENTIFICATION

_____

PRODUCT NAME: MOBIL





HUNT HITTIPEGASUS SPECIAL 15W-40

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD.

FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS Information:

800-662-4525

609-224-4644

CHEMTREC:

800-424~9300

202-483-7616

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET, HYDROCARBONS AND ADDITIVES INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH: This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients. See Section 15 for European Label Information. See Section 8 for exposure limits (if applicable).

#### 3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSEA 29 CFR 1910.1200 and determined not to be hazardous. EFFECTS OF OVEREXPOSURE: No significant effects expected. EMERGENCY RESPONSE DATA: Dark Amber Liquid. DOT ERG No. - NA

#### 4. FIRST AID MEASURES

1 116

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

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INCESTION: Not expected to be a problem. However, if greater than 1/2

liter (pint) ingested, seek medical attention.

#### 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. Flash Point C(F): > 200(392) (ASTM D-92). Flammable limits - bEb: NA, UEL: NA. NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.

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## 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notity CHEMTREC (800) 424-9300. PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

#### 7. HANDLING AND STORAGE

MANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product. STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed. EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheer for specific details. APPEARANCE: Liquid COLOR: Dark Amber ODOR: Mild ODOR THRESHOLD-ppm: NE pH: NA BOILING POINT C(F): 5 316(600) MELTING POINT C(F): NA FLASE POINT C(F): > 200(392) (ASTM D-92) FLAMMABILITY: NE AUTO FLAMMABILITY: NE EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA VAPOR PRESSURE-mmHg 20 C: & IL; 0.1 VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE RELATIVE DENSITY, 15/4 C: 0.875 SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: > 3.5 VISCOSITY AT 40 C, est: 103.0 VISCOSITY AT 100 C, cSt: 13.7 POUR POINT C(F): & It; +33(-28) FREEZING POINT C(F): NE VOC: & lt: 5.00 (Wt. %); 0.358 lbs/gai 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.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.
Elemental oxides.
HAZARDOUS POLYMERIZATION: Will not occur.

#### 11. TOXICOLOGICAL DATA

ORAL TOXICITY (RATS): Practically non-toxic (L050: 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.

INMALATION TOXICITY (RATS): Fractically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRETATION (RABBITS): Practically non-irritating, (Draige score:

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greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Frimary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: The acute toxicological results summarized above are based on testing of representative Mobil products.

Representative Mobil formulations have shown no acute effects, administered via the inhalation route, when tested at maximum attainable oil mist or vapor concentrations.

---SUBCHRONIC TOXICOLOGY (SUMMARY)--Representative Mobil formulations have been tested at the Mobil Environmental and Health Sciences Laboratory by dermal applications to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations, including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---REPRODUCTIVE TOXICOLOGY (SUMMARY)--Dermal exposure of pregnant rats to representative formulations did
not cause adverse effects in either the mothers or their
offspring.

The 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 the Mobil Modified Ames Test and IF-346.

---SENSITIZATION (SUMMARY)--Representative Mobil formulations have not caused skin sensitization in quinca pigs.

Used gasoline engine oils have shown evidence of skin carcinogenic activity in laboratory tests when no effort was made to wash the oil off between applications. Used oil from diesel engines did not produce this effect.

# 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: This product is expected to be inherently biodegradable. There is no evidence to suggest bioaccumulation will occur. It is not expected to be toxic to aquatic organisms.

Accidental spillage may lead to penetration in the soil and

Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

## 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. 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

Latte

specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is if formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corresivity, or reactivity and is not formulated with contaminants as determined 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.

Covernmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, MITTL, and OSL. EU Labeling: EU labeling not required. 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 reportable under

SARA (313) toxic release program.

The following product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS

ZINC (ELEMENTAL ANALYSIS) (0.02%) 7440-66-6 22 PHOSPHORODITHOIC ACID, 0,0-DI 68649-42-3 22 C1-14-ALKYL ESTERS, ZINC SALTS (2:

1) (ZDDP) (0.26%)

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL 6=1ARC 1 11~TSCA 4 16=CA P65 CARC 21-LA RTK 12=TSCA 5a2 2=ACG1H A1 7~IARC 2A 17=CA P65 REPRO 22=M1 293 8=TARC 2B 3 ACGIH A2 13=TSCA 5e 18=CA RTK 23=MN RTK 9=OSHA CARC 14-TSCA 6 4-NTP CARC. 19∞FL RTK 24-NJ RTK 5-NTP SUS 10=OSHA 2 15=TSCA 12b 20=1L RTK 25 PA RTK 26≈RL RTK

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

#### 16. OTHER INFORMATION

USE: NATURAL GAS ENGINE OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

For Internal Use Only: MHC: 1* 1* 0* 1* 1*, MPPEC: A, TRN: 605840-00, CMCS97: 971867, REQ: US - MARKETING, SAFE USE: L EBS Approval Date: 140EP1999

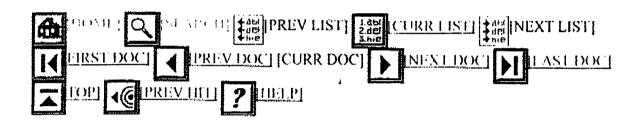
Legally required information is given in accordance with applicable

Information given berein is offered in good faith as accurate, but

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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 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 any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or retransmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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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

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 March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

# REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

RCRA Exempt: ☐ Non-Exempt: ☑  □ Verbal Approval Received: Yes ☑ No ☐ Note: Got phone approval with Ed Martin 5/3/2006 @ 7:15am	<ul> <li>4. Generator: Dennis Beasley XTO Energy Inc. 2700 Farmington Ave, Bldg K, Ste I Farmington, NM 8740</li> <li>5. Originating Site: Finney 4-12U</li> </ul>		
Management Facility Destination	6. Transporter:		
3. Address of Facility Operator: Industrial Ecosystems Inc. #81 County Road 3150 Aztec, New Mexico 87410	8. State: New Mexico.		
7. Location of Material (Street Address or ULSTR) Section 12L - 34N - 08W, La Plata County, Colorado	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
9. Circle One:  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:  Used motor oil mixed in with production pit contents (approx. 10 bbls)  Estimated Volume Known Volume (to be entered by the operator at the end of the haul) 10 bbls			
SIGNATURE Waste Management Facility Authorized Agent TITLE: Business Mana	ger DATE: <u>5-3-2006</u>		
TYPE OR PRINT NAME: Vince Scott	TELEPHONE NO: 505-632-1782		
E-MAIL: vince@industrialecosystems.com			
(This space for State Use)  APPROVED BY:  "TITLE:			





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name:
XTO Energy Inc.	J. F. J. Landfarm C/o Industrial Ecosystems Inc
2700 Farmington Ave., Bldg K, Ste 1	#81 CR 3150
Farmington, New Mexico 87401	Aztec, New Mexico 87410
1 minington, 11011 31201110 0 1 101	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Finney 4-12U	Sec. 12L-34N-8W La Plata County, Colorado
attach list of originating sites as appropriate	
4. Source and Description of Waste	
	· · · · · · · · · · · · · · · · · · ·
Used motor oil mixed with production pit conten	its (<10 bbl total).
0 1 17 Denti Production (070) 750 0550	
Contact Person: Dennis Beasley (970) 759-9550	
I Vim Champlin Toron Cardona and/or I is a Win	in representative for :XTO Energy Inc. do hereby certify that,
1, Kim Champini, Torey Cardona, and/of Disa ven	A) and Environmental Protection Agency's July, 1988, regulatory
determination, the above described waste is: (Check appropriate	
determination, the above described waste is. (Check appropriate	cia55111¢ation/
EXEMPT oilfield wasteX_NON-EX	EMPT oilfield waste which is non-hazardous by characteristic
	or by product identification and that nothing has been added to the
	or non-exempt non -hazardous waste defined above.
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For NON-EXEMPT waste the following documentation is attack	hed (check appropriate items):
MSDS Information	Other (description
RCRA Hazardous Waste Analysis	· · · · · · · · · · · · · · · · · · ·
Chain of Custody	
This waste is in compliance with Regulated Levels of Natural	ly Occurring Radioactive Material (NORM) pursuant to 20
NMAC 3.1 subpart 1403.C and D.	
	Champin
Name (Original Signature): Kim Champlin 1 Www.	mampun
Title: EH&S Assistant	
Phone Number: <u>505-566-7954</u>	
Date: <u>05/03/2006</u>	

Oil Conservation Division * 1000 Rio Brazos Road * Aztec, New Mexico 87410 Phone: (505) 334-6178 * Fax (505) 334-6170 * http://www.enurd.state.nn.us

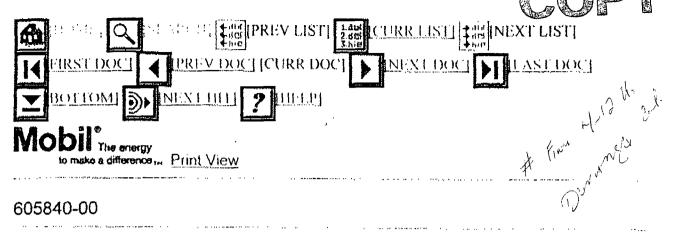
Farmington, NM 87401 505-327-9280 Telephone 505-327-9302 Fax







	To: VINC:	0	From:	John
	Fax:	,	Pages:	
	Phone:		Date:	
	Re:	· 11	CC:	· ·
	□ Urgent	☐ For Review	· ·	☐ Please Comment
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## 605840-00 MOBIL PEGASUS SPECIAL 15W-40 MATERIAL SAFETY DATA BULLETIN

# 1. PRODUCT AND COMPANY IDENTIFICATION



HIP! DIE HET PEGASUS SPECIAL 15W-40

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD.

FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS Information:

CHEMTREC:

800-662-4525

609-224-4644 202-483-7616

800-424-9300

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET, HYUROCARBONS AND ADDITIVES INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH: This product is not termulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients. See Section 15 for European Label Information. See Section 8 for exposure limits (if applicable).

# 3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSEA 29 CFR 1910.1200 and determined not to be hazardous, EFFECTS OF OVEREXPOSURE: No significant effects expected. EMERGENCY RESPONSE DATA: Dark Amber Liquid. DOT ERG No. - NA

#### 4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water  $\epsilon$  if irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INCESTION: Not expected to be a problem. However, if greater than 1/2

liter (pint) ingested, seck medical attention.

#### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water tog. 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. Flash Point C(F): > 200(392) (ASTM D-92). Flammable limits - bEL: NA, UEL: NA. NFPA HAZARD 1D: Health: 0, Flammability: 1, Reactivity: 0 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides. Elemental oxides.

# 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate teporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard 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: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

#### 7. HANDLING AND STORAGE

MANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product. STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

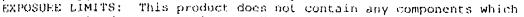
VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial eye protection practices should be employed.

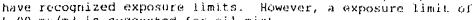
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SKIN PROTECTION: No special equipment required. However, good

personal hygiene practices should always be followed.





5.00 mg/md is suggested for oil mist.



#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

APPEARANCE: Liquid

COLOR: Dark Amber

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pil: NA

BOILING POINT C(F): S = 316(600)

MELTING POINT C(F): NA

FLASE POINT C(F): > 200(392) (ASTM D-92)

FLAMMABILITY: NE

AUTO FLAMMABILITY: NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAFOR PRESSURE-mmHg 20 C: & IL; 0.1

VAPOR DENSITY: > 2.0

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.875

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, est: 103.0

VISCOSITY AT 100 C, cst: 13.7

POUR POINT C(E): & It; -33(-28)

FREEZING POINT C(F); NE

VOC: & 1t; 5.00 (Wt. %); 0.358 lbs/gai

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.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong exidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.

Elemental oxides.

HAZARDOUS POLYMERIZATION: WILL not occur.

#### 11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (L050: greater than 2000 mg/kg).  $\rightarrow$ -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

EYE IRROTATION (RABBITS): Practically non-irritating, (Draige score:

1 01 6

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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: The acute toxicological results summarized above are based on testing of representative Mobil products. Representative Mobil formulations have shown no acute effects,

administered via the inhalation route, when tested at maximum attainable oil mist or vapor concentrations.

---SUBCHRONIC TOXICOLOGY (SUMMARY)--Representative Mobil formulations have been tested at the Mobil Environmental and Health Sciences Laboratory by dermal applications to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations, including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---REPRODUCTIVE TOXICOLOGY (SUMMARY)--Dermal exposure of pregnant rats to representative formulations did
not cause adverse effects in either the mothers or their
offspring.

The 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 the Mobil Modified Ames Test and IP-346.

---SENSITIZATION (SUMMARY)--- Representative Mobil formulations have not caused skin sensitization in guinca pigs.

Used gasoline engine oils have shown evidence of skin carcinogenic activity in laboratory tests when no effort was made to wash the oil off between applications. Used oil from diesel engines did not produce this effect.

#### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: This product is expected to be inherently biodegradable. There is no evidence to suggest bioaccumulation will occur. It is not expected to be toxic to aquatic organisms.

Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. 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

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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, corresivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP): However, used product may be requiated.



#### 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.

#### 15. REGULATORY INFORMATION

Covernmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, MITTL, and DSL.

EU Labeling: EU labeling not required.

U.S. Superfund Amendments and Reauthorization Acr (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

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

This product contains no chemicals reportable under

SARA (313) toxic release program.

The following product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS

----.... ZINC (ELEMENTAL ANALYSIS) (0.02%) 7440-66-6 22 PHOSPHORODITHOIC ACID, 0,0-DI 68649-42-3 22

C1-14-ALKYL ESTERS, ZINC SALTS (2:

1) (ZDDP) (0.26%)

--- REGULATORY LISTS SEARCHED ---

11~TSCA 4 16≈CA P65 CARC l=ACGIH ALL 6=LARC 1 21-LA RTK 2#ACG1H Al 7- IARC 2A 12=TSCA 5a2 17=CA P65 REPRO 22=M1 293 3 ACGIH A2 B=TARC 2B 13#TSCA Se 18=CA RTK 23=MN RTK

4"NTP CARC 9=OSHA CARC 14-TSCA 6 19 FL RTK 24 MJ RTK 5-NTP SUS 10∞OSHA 2

15-TSCA 12b 20-1L RTK 25-PA RTK 26=R1 RTK

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

#### 16. OTHER INFORMATION

USE: NATURAL GAS ENGINE OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

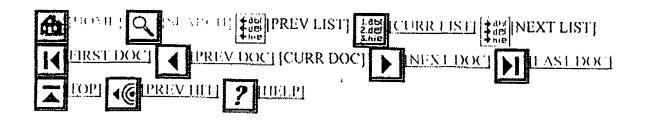
For Internal Use Only: MHC: 1* 1* 0* 1* 1*, MPPEC: A, TRN: 605840-00, CMCS97: 971867, REO: US - MARKETING, SAFE USE: L

EBS Approval Date: 149EP1999 

Legally required information is given in accordance with applicable information given berein is offered in good faith as accurate, but

Sala 100/900 2 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 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 any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or retransmission of the information contained herein in any other formal than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document compty with the laws of any other country except the United States of America.

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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

# 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 Form C-138 Revised March 17, 1999 Submit Original

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

<ol> <li>RCRA Exempt: □ Non-Exempt: □</li> <li>Verbal Approval Received: Yes □ No □</li> <li>(Verbal Approval w/ Ed Martin @ 10:50am, 5/2/06)</li> </ol>	4. Generator: Sheldon Montoya Burlington Resource/Conoco Phillips 3401 E 30th Street Farmington, NM 87499 505-320-2857  5. Originating Site: Grambling C3M
Management Facility Destination	6. Transporter: To Be Announced
3. Address of Facility Operator: Industrial Ecosystems Inc. #81 County Road 3150 Aztec, New Mexico 87410	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) UL – A, Section 13, T-30, R10W	CERNING BY
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  B. 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  All transporters must certify the wastes delivered are only those consigned for transporters DESCRIPTION OF MATERIAL: Disposal of contaminated No.2 diesel fuel, in p	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be bort.
Estimated Volume Known Volume (to be entered by the operator at	
SIGNATURE TITLE: Business Mana	nger DATE: 5-2-2006
TYPE OR PRINT NAME:Vince Scott	TELEPHONE NO: 505-632-1782
E-MAIL: vince@industrialecosystems.com	
(This space for State Use)  APPROVED BY:  TITLE:	DATE:
APPROVED BY: TITLE:	DATE:



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name:			
ConocoPhillips	J.F.J. Landfarm C/O Industrial Ecosystems Inc.			
3401 E 30 th . St.	#81 CR 3150			
Farmington, New Mexico 87499	Aztec, NM 87410			
3 3	Phone # 505-632-1782 Fax No# 505-632-1876			
	<u> </u>			
3. Originating Site (name): Lo	cation of the Waste (Street address &/or ULSTR):			
Grambling C3M	7 0.00 0.01			
U	L- $\underline{H}$ S-013 T- 30 $H$ R- 10 $\underline{W}$ or attach list			
St	reet Address:			
4. Source and Description of Waste				
No. 2 Diesel Fuel. In the process of moving drilling equipmen	t and fuel storage tank an estimated amount of diesel fuel was			
released on location. The fuel was impacted soils on location a	and was excavated.			
Approximately 60 cu yds of soil.				
5. Attn: Sheldon Montoya 320-2857 Bill to: PID 85427101	AFE # 22151 Drilling			
,				
I, <u>Gregg Wurtz</u> representative for:				
representative for :				
Print Name				
Duality Decree	do harghy partify that according an the Danamas			
Burlington Resources	do hereby certify that, according to the Resource			
Conservation and Recovery Act (RCRA) and Environmental Protection	Agency's July, 1900, regulatory determination, the above			
described waste is: (Check appropriate classification)				
EVENDY offerld worth Y MON EVEN	PT oilfield waste which is non-hazardous by characteristic			
	product identification			
anatysis or by	product dominounou			
and that nothing has been added to the exempt or non-exempt non -haz	ardous waste defined above.			
mid may hopening has been added to die eventhe of non-eventhe non-sure				
For NON-EXEMPT waste the following documentation is attached (cl	heck appropriate items):			
MSDS Information at factor of the MSDS Information of the check	ner (description			
RCRA Hazardous Waste Analysis	and /manarahiin.			
Chain of Custody				
This waste is in compliance with Regulated Levels of Naturally Occ	surring Radioactive Material (NORM) nursuant to 20			
This waste is in comphance with Regulated Levels of Naturally Occ	ranims variourne inviterim (1101411) herzhaur eo zo			
NMAC 3.1 subpart 1403.C and D.				
Grade Illingthe				
Name (Original Signature): Sneggy Man CG				
//				
ine: cav. ked				
Date: May 2-1-2006				
(				

# MSDS SUMMARY SHEET

Manufacturer:

Name: PHILLIPS PETROLEUM COMPANY

Address 1: Address 2: Address 3:

CSZ: BARTLESVILLE State: OK Zipcode: 74004

**Emergency phone:** (800) 424-9300 **Business phone:** 800-762-0942

**Product:** 

Ferndale MSDS#: 1354 Version #: 6

Manufacturer MSDS#: 0041

**Current?:** 2002

Name:

NO. 2 DIESEL FUEL

Synonyms:

**CARB Diesel TF3** 

CARB Diesel

CARB Diesel 10%

Diesel Fuel Oil

EPA Low Sulfur Diesel Fuel

EPA Low Sulfur Diesel Fuel – Dyed

EPA Off Road High Sulfur Diesel - Dyed

Fuel Oil No. 2 – CAS # 68476-30-2

No. 2 Diesel Fuel Oil

No. 2 Fuel Oil - Non Hiway - Dyed

No. 2 High Sulfur Diesel - Dyed

No. 2 Low Sulfur Diesel - Dyed

No. 2 Low Sulfur Diesel - Undyed

Crude column 3rd IR

Crude column 3rd side cut

Atmospheric tower 3rd side cut

Ultra Low Sulfur Diesel No. 2

Finished Diesel

**DHT Reactor Feed** 

Straight Run Diesel

Diesel

Middle Distillate

**Product/Catalog Numbers:** 

MSDS Date: 01/01/2002 (received: 01/14/2002)

NFPA codes:

Health: 0 Flammability: 2 Reactivity: 0

Page 2 of 9

#### MATERIAL SAFETY DATA SHEET No. 2 Diesel Fuel

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

No. 2 Diesel Fuel

Product Code:

Multiple

SAP Code:

Synonyms:

1354

CARB Diesel TF3 CARB Diesel CARB Diesel 10% Diescl Fuel Oil

EPA Low Sulfur Diesel Fuel EPA Low Sulfur Dicsel Fuel - Dyed EPA Off Road High Sulfur Diesel - Dyed Fuel Oil No. 2 - CAS # 68476-30-2

No. 2 Diesel Fuel Oil

No. 2 Fuel Oil - Non Hiway - Dyed No. 2 High Sulfur Diesel - Dyed No. 2 Low Sulfur Diesel - Dyed No. 2 Low Sulfur Diesel - Undyed No. 2 Ultra Low Sulfur Diesel - Dyed No. 2 Ultra Low Sulfur Diesel - Undyed

Intended Use:

Fuel

Chemical Family:

Responsible Party:

Phillip's Petroleum Company Bartlesville, Oklahoma 74004

For Additional MSDSs: 800-762-0942

Technical Information:

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical Information number listed.

#### EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident

Call CHEMTREC

North America: (800) 424-9300 Others: (703) 527-3887 (collect) California Poison Control System: 800-356-3120

Health Hazards/Precautionary Measures: Causes severe skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Flammable liquid and vapor. Keep away from heat, sparks, flames, static electricity or other sources of ignition.

Appearance:

Straw-colored to dyed red

Physical Form:

Liquid

Odor:

Characteristic petroleum

Page 3 of 9

**HMIS Hazard Class** 

Not Evaluated

HFPA Hazard Class:

0 (Least)

Flammability: Reactivity:

Health:

2 (Moderate) 0 (Least)

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	% VOLUME		<u>EXPOSURI</u>	E GUIDELINE
Diesel Fuel No. 2 CAS# 68476-34-6	100	<u>Limits</u> 100* mg/m3	Agency ACGIH	<u>Type</u> TWA-SKIN
Naphthalene CAS# 91-20-3	<1	10ppm 15ppm 10ppm 250ppm	ACGIH ACGIH OSHA NIOSH	TWA STEL TWA IDLH

All components are listed on the TSCA inventory

Tosco Low Sulfur No. 2 Diesel meets the specifications of 40 CFR 60.41 for low sulfur diesel fuel.

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

#### 3. HAZARDS IDENTIFICATION

#### Potential Health Effects:

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Severe skin irritant. Contact may cause redness, itching, burning, and severe skin damage. Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin, leading to dermatitis (inflammation). Not actually toxic by skin absorption, but prolonged or repeated skin contact may be harmful (see Section 11).

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD — This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, nausca, diarrhea and transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: Possible skin cancer hazard (see Sections 11 and 14).

Target Organs: There is limited evidence from animal studies that overexposure may cause injury to the kidney (see Section 11).

Developmental: Inadequate data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders and kidney disorders.

^{*}Proposed ACGIII (1999)

Page 4 of 9

#### 4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Immediately remove contaminated shoes, clothing, and constrictive jewelry and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek immediate medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard; Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

#### 5. FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point: >125°F/>52°

OSIA Flammability Class: Combustible liquid

LEL %: 0.3 / UEL %; 10.0

Autoignition Temperature: 500°F/260°C

Unusual Fire & Explosion Hazards: This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

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#### 6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

#### 7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharged. The use of explosion-proof equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing or high pressure hydraulic oil equipment.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSIZ49.1 and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentration below the established exposure limits (see Section 2), additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

- 11

#### No. 2 Diesel Fuel (MSDS #0041)

Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with an organic vapor cartridge maybe used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is a potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrants a respirator's usc.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eyes/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area.

Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (latm).

Appearance: Straw-colored to dyed red

Physical State: Liquid

Odor: Characteristic petroleum

pH: unavailable

Vapor Pressure (mm Hg): 0.40

Vapor Densisty (air=1):>3

Boiling Point/Range: 320-700°F/160-371°C

Freezing/Melting Point: No Data
Solubility in Water: Negligible
Specific Gravity: 0.81-0.88 @ 60°F
Percent Volatile: Negligible
Evaporation Rate (nBuAc=1): <1
Viscosity: 32.6-40.0 SUS @ 100°F
Bulk Density: 7.08 lbs/gal

Flash Point: >125°F / >52°C

Flammable/Expolsive Limits (%): LEL: 0.3 / UEL: 10.0

#### 10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Flammable liquid and vapor. Vapor can cause flash fire.

Conditions To Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

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Hazardous Decomposition Products: The use of hydrocarbon fuels in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur and nitrogen, benzene and other hydrocarbons) and/or dangerously low oxygen levels. ACGIH has included a TLV of 0.05 mg/m3 TWA for diesel exhaust particulate on its 1999 Notice of Intended Changes. See Section 11 for additional information on hazards of engine exhaust.

Hazardous Polymerization: Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

#### Diesel Fuel No. 2 (CAS# 68476-34-6)

Carcinogenicity: Chronic dermal application of certain middle distillate streams contained in diesel fuel No. 2 resulted in an increased incidence of skin tumors in mice. This material has not been identified as carcinogen by NTP, IARC, or OSHA. Diesel exhaust is a probable cancer hazard based on tests with laboratory animals.

Target Organ(s): Limited evidence of renal impairment has been noted from a few case reports involving excessive exposure to diesel fuel No. 2.

#### Naphthalene (CAS# 91-20-3)

Carcinogenicity: Naphthalene has been evaluated in two year inhalation studies in both rats and mice. The National Toxicology Program (NTP) concluded that there is clear evidence of carcinogenicity in male and female rats based on increased incidences of respiratory epithelial adenomas and olfactory epithelial neuroblastomas of the nose. NTP found some evidence of carcinogenicity in female mice (alveolar adenomas) and no evidence of carcinogenicity in male mice. Naphthalene has not been identified as a carcinogen by IARC or OSHA.

#### 12. ECOLOGICAL INFORMATION

Not evaluated at this time

#### 13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001) and benzene (D018). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent then the federal requirements.

Container contents should be completely used and containers should be emptied prior to discard. Container ?insate? could be considered a RCRA hazardous waste and must be disposed of with care and in compliance with federal, state and local regulations. Large empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller containers, consult with state and local regulations and disposal authorities.

#### 14. TRANSPORT INFORMATION

DOT Shipping Description:

Diesel Fuel, NA1983

Non-Bulk Package Marking:

Diesel Fuel, 3, NA 1993, III

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#### 15. REGULATORY INFORMATION

#### EPA SARA 311/312 (Title III Hazard Categories):

Acute Health:

Yes

Chronic Health:

Yes Yes

Fire Hazard: Pressure Hazard:

Reactive Hazard:

No No

SARA 313 and 40 CFR 372:
This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

Component

CAS Number

Weight %

- None known -

California Proposition 65:

Warning: This material contains the following chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Component Control (Marie 1983)

**Effect** 

Benzene T'oluenc

Cancer, Developmental and Reproductive Toxicant

Developmental Toxicant

Diesel engine exhaust, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer.

Carcinogen Identification:

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any. Diesel exhaust is a probable cancer hazard based on tests in laboratory animals. It has been identified as carcinogen by IARC.

#### EPA (CERCLA Reportable Quantity: None

#### 16. OTHER INFORMATION

Issue Date: 01/01/02

Previous Issue Date: 05/15/01 Product Code: Multiple Revised Sections: None

**Previous Product Code: Multiple** 

MSDS Number: 0041

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#### Disclaimer of Expressed and Implied Warranties:

The information presented in this Material Data Safety Sheet is based on data believed to be accurate as of the date this Material Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THE PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

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Tosco Refining Company

Ferndale Refinery

UltraLow Sulfur Diesel Product Specification

Ferndale Product Code: 34380xx (5) Product Code: ULSD2

(COMETS)

Specification	Unit	Limit	Test Procedure	Typical
Appearance				
Water & Scdiment	Vol %	0.05 Max	D 2709	
Color	Number	3.0 Max	D 1500	
Haze Rating	Rating	2 Max	D 4176	
Composition				
Carbon Residue (Ramsbottom)	Wt %	0.35 Max	D 524, D 189	
Volatility				
90% Recovered	Deg; F	540 Min	D 86	
	Deg; F	640 Min	D 86	j
Flash Point	Deg; F	125 Min (1)	D 93	130 F
Gravity	API	30 Min	D 287, D4052	
Fluidity				
Pour Point	Deg; F	See Season Table (6)	D 97	<u> </u>
	Deg; F	See Scason Table (6)	D 2500	10 F
Cloud Point Viscosity @ 104F	cSt.	1.9 Min	D 445	10 F
Viscosity (c) 10-11	cSt	4.1 Max	D 445	
Part of the State of Contract of	CSL	4.1 IVIAX	D 443	
Lubricity, SLBOCLE	grams	3100 Min	D 6078	3300gm
Lubricity, IfFRR				_
	mm	.45	D 6079	<u> </u>
Combustion		` ·		1
Cetane Index or Cetane Number	Number	40.0 Min	D 976, D613	47.0
(3,4)	ļ			
Corrosion	1: 42.1	· •.		
Copper Strip, 3hr @ 50 deg C	Number	3 Max (2)	D 130	
Aromatics (4)	Vol %	35 Max	D 1319	25 %
Contaminants	J	]		
Total Sulfur	PPM	.30 Max	D 2622, D4294	15-20ppm
Water & Sediment	Vol %	0.05 Max	D 1796	
Ash	Wt %	0.01 Max	D 482	
Additives		- · · · · ·		<u> </u>
Cetane Improver	Lb/MBbl	675 Max		
Dye		Undyed		

- 1. Minimum release specification is 125 deg. F. The refinery should target 135 deg. F.
- 2. Test result reported as a number and letter (e.g. 1a). Any letter is allowable as long as the number meets the spec shown.
- 3. Either specification must be met.
- 4. Either cetane index minimum or aromatics maximum must be met.
- 5. Winter cloud and pour specifications may be relaxed to the summer specifications by agreement with the customer.
- 6. Season Table

Month	Product Code	Pour Poin	t Cloud Point
Jan, Feb, Nov, Dec	WI	0 max (5)	14 max (5)
Mar Oct	QII	15 may	2/ may

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. Santa Fe, NM 87505



Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: Non-Exempt: Non-Exempt: No Verbal Approval Received: Yes No (Verbal Approval w/ Ed Martin @ 10:50am, 5/2/06)	<ul> <li>4. Generator: Sheldon Montoya Burlington Resource/Conoco Phillips 3401 E 30th Street Farmington, NM 87499 505-320-2857</li> <li>5. Originating Site: Grambling C3M</li> </ul>
2. Management Facility Destination JFJ Landfarm L.L.C.	6. Transporter: To Be Announced
3. Address of Facility Operator: Industrial Ecosystems Inc. #81 County Road 3150 Aztec, New Mexico 87410	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) UL – A, Section 13, T-30, R10W	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  B. 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  All transporters must certify the wastes delivered are only those consigned for transposed transporters must certify the wastes delivered are only those consigned for transposed transporters and an estimate of diesel fuel was released on location; the fuel then impacted on	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be cort.  rocess of moving drilling equipment and fuel location and was excavated.
Estimated Volume Known Volume (to be entered by the operator at	the end of the haul) Approx. 60 Yards
SIGNATURE TITLE: Business Mana Waste Management Facility Authorized Agent	DATE: 5-2-2006
TYPE OR PRINT NAME: Vince Scott	TELEPHONE NO: _ 505-632-1782
E-MAIL: vince@industrialecosystems.com	
(This space for State Use)	
APPROVED BY: TITLE:	DATE:
APPROVED BY: TITLE:	DATE:



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery Director Oil Conservation Division



#### CERTIFICATE OF WASTE STATUS

1. Generator Name and Address  ConocoPhillips 3401 E 30 th . St.  Farmington, New Mexico 87499	2. Destination Name: J.F.J. Landfarm C/O Industrial Ecosystems Inc. #81 CR 3150 Aztec, NM 87410 Phone # 505-632-1782 Fax No# 505-632-1876
Grambling C3M	Decation of the Waste (Street address & Or ULSTR):  L- A S-013 T- 30 H R- 10 W or attach list breet Address:
4. Source and Description of Waste No. 2 Diesel Fuel. In the process of moving drilling equipmen released on location. The fuel was impacted soils on location: Approximately 60 cu yds of soil.	and was excavated.
5. Attn: Sheldon Montoya 320-2857 Bill to: PID 85427101	AFE # 22151 Drilling
I, <u>Gregg Wartz</u> representative for:	
Burlington Resources  Conservation and Recovery Act (RCRA) and Environmental Protection described waste is: (Check appropriate classification)	do hereby certify that, according to the Resource Agency's July, 1988, regulatory determination, the above
EXEMPT oilfield waste	PT oilfield waste which is non-hazardous by characteristic product identification
and that nothing has been added to the exempt or non-exempt non -haz	ardous waste defined above.
For NON-EXEMPT waste the following documentation is attached (character	neck appropriate items):  er (description
This waste is in compliance with Regulated Levels of Naturally Occ NMAC 3.1 subpart 1403.C and D.	curring Radioactive Material (NORM) pursuant to 20
Name (Original Signature): Suegly Man Cy  Title: Env. Rep  Date: May 2, 2006	<del>-</del>
7 7 .	

#### MSDS SUMMARY SHEET

Manufacturer:

Name: PHILLIPS PETROLEUM COMPANY

Address 1: Address 2: Address 3:

CSZ: BARTLESVILLE State: OK Zipcode: 74004

Emergency phone: (800) 424-9300 Business phone: 800-762-0942

#### Product:

Ferndale MSDS#: 1354 Version #: 6

Manufacturer MSDS#: 0041

**Current?**: 2002

Name:

#### NO. 2 DIESEL FUEL

#### Synonyms:

CARB Diesel TF3

CARB Diesel

CARB Diesel 10%

Diesel Fuel Oil

EPA Low Sulfur Diesel Fuel

EPA Low Sulfur Diesel Fuel – Dyed

EPA Off Road High Sulfur Diesel - Dyed

Fuel Oil No. 2 – CAS # 68476-30-2

No. 2 Diesel Fuel Oil

No. 2 Fuel Oil - Non Hiway - Dyed

No. 2 High Sulfur Diesel - Dyed

No. 2 Low Sulfur Diesel - Dyed

No. 2 Low Sulfur Diesel - Undyed

Crude column 3rd IR Crude column 3rd side cut

Atmospheric tower 3rd side cut

Ultra Low Sulfur Diesel No. 2

Finished Diesel

DHT Reactor Feed

Straight Run Diesel

Diesel

Middle Distillate

**Product/Catalog Numbers:** 

MSDS Date: 01/01/2002 (received: 01/14/2002)

#### NFPA codes:

Health: 0 Flammability: 2 Reactivity: 0

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COPY

#### MATERIAL SAFETY DATA SHEET No. 2 Diesel Fuel

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

No. 2 Diesel Fuel

Product Code:

Multiple

SAP Code: Synonyms:

1354

CARB Diesel TF3
CARB Diesel
CARB Diesel 10%
Diesel Fuel Oil

EPA Low Sulfur Diesel Fuel
EPA Low Sulfur Diesel Fuel – Dyed
EPA Off Road High Sulfur Diesel – Dyed

Fuel Oil No. 2 - CAS # 68476-30-2

No. 2 Diesel Fuel Oil

No. 2 Fuel Oil – Non Hiway – Dyed No. 2 High Sulfur Diesel – Dyed No. 2 Low Sulfur Diesel - Dyed No. 2 Low Sulfur Diesel – Undyed No. 2 Ultra Low Sulfur Diesel – Dyed No. 2 Ultra Low Sulfur Diesel - Undyed

Intended Use:

Fuel

Chemical Family:

Responsible Party:

Phillip's Petroleum Company Bartlesville, Oklahoma 74004

For Additional MSDSs: 800-762-0942

Technical Information:

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical Information number listed.

#### **EMERGENCY OVERVIEW**

#### 24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident

Call CHEMTREC

North America: (800) 424-9300 Others: (703) 527-3887 (collect) California Poison Control System: 800-356-3120

Health Hazards/Precautionary Measures: Causes severe skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Flammable liquid and vapor. Keep away from heat, sparks, flames, static electricity or other sources of ignition.

Appearance:

Straw-colored to dyed red

Physical Form:

Liquid

Odor:

Characteristic petroleum

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HFPA Hazard Class:

**HMIS Hazard Class** 

Not Evaluated

Health:

0 (Least)

Flammability:

2 (Moderate)

Reactivity: 0 (Least)

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	% VOLUME		<b>EXPOSUR</b>	E GUIDELINE
Diesel Fuel No. 2 CAS# 68476-34-6	100	<u>Limits</u> 100* mg/m3	Agency ACGIH	<u>Type</u> TWA-SKIN
Naphthalene CAS# 91-20-3	COPY	10ppm 15ppm 10ppm 250ppm	ACGIH ACGIH OSHA NIO\$H	TWA STEL TWA IDLH

All components are listed on the TSCA inventory

Tosco Low Sulfur No. 2 Diesel meets the specifications of 40 CFR 60.41 for low sulfur diesel fuel.

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygicnist or similar professional, or your local agencies, for further information.

#### 3. HAZARDS IDENTIFICATION

#### Potential Health Effects:

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Severe skin irritant. Contact may cause redness, itching, burning, and severe skin damage. Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin, leading to dermatitis (inflammation). Not actually toxic by skin absorption, but prolonged or repeated skin contact may be harmful (see Section 11).

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD — This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, nausca, diarrhea and transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: Possible skin cancer hazard (see Sections 11 and 14).

Target Organs: There is limited evidence from animal studies that overexposure may cause injury to the kidney (see Section 11).

Developmental: Inadequate data available for this material.

**Pre-Existing Medical Conditions:** Conditions aggravated by exposure may include skin disorders and kidney disorders.

^{*}Proposed ACGIII (1999)

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#### 4. FIRST AID MEASURES

Eye: If irritation or reduces develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Immediately remove contaminated shoes, clothing, and constrictive jewelry and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek immediate medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard; Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

#### 5. FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point: >125°F/>52°

OSJ(A Flammability Class: Combustible liquid

LEL %: 0.3 / UEL %; 10.0

Autoignition Temperature: 500°F/260°C

Unusual Fire & Explosion Hazards: This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.



#### 6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hor metal surfaces away from spill/release. The use of explosion-proof equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

#### 7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharged. The use of explosion-proof equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure (limits (see Sections 2 and 8).

Do not wear contaminated clothing or shocs. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing or high pressure hydraulic oil equipment.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSIZ49.1 and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentration below the established exposure limits (see Section 2), additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).



Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with an organic vapor cartridge maybe used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is a potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrants a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eyes/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area.

Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1atm).

Appearance: Straw-colored to dyed red

Physical State: Liquid

Odor: Characteristic petroleum

pH: unavailable

Vapor Pressure (mm Hg): 0.40

Vapor Densisty (air=1):>3

Boiling Point/Range: 320-700°F /160-371°C

Freezing/Melting Point: No Data Solubility in Water: Negligible Specific Gravity: 0.81-0.88 @ 60°F Percent Volatile: Negligible Evaporation Rate (nBuAc=1): <1 Viscosity: 32.6-40.0 SUS @ 100°F Bulk Density: 7.08 lbs/gal

Bulk Density: 7.08 lbs/gal Flash Point: >125°F / >52°C

Flammable/Expolsive Limits (%): LEL: 0.3 / UEL: 10.0

#### 10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Flammable liquid and vapor. Vapor can cause flash fire.

Conditions To Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

Page 7 of 9

Hazardous Decomposition Products: The use of hydrocarbon fuels in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur and nitrogen, benzone and other hydrocarbons) and/or dangerously low oxygen levels. ACGIH has included a TLV of 0.05 mg/m3 TWA for diesel exhaust particulate on its 1999 Notice of Intended Changes. See Section 11 for additional information on hazards of engine exhaust.

Hazardous Polymerization: Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

#### Diesel Fuel No. 2 (CAS# 68476-34-6)

Carcinogenicity: Chronic dermal application of certain middle distillate streams contained in diesel fuel No. 2 resulted in an increased incidence of skin tumors in mice. This material has not been identified as carcinogen by NTP, IARC, or OSHA. Diesel exhaust is a probable cancer hazard based on tests with laboratory animals.

Target Organ(s): Limited evidence of renal impairment has been noted from a few case reports involving excessive exposure to diesel fuel No. 2.

#### Naphthalene (CAS# 91-20-3)

Carcinogenicity: Naphthalene has been evaluated in two year inhalation studies in both rats and mice. The National Toxicology Program (NTP) concluded that there is clear evidence of carcinogenicity in male and female rats based on increased incidences of respiratory epithelial adenomas and olfactory epithelial neuroblastomas of the nose. NTP found some evidence of carcinogenicity in female mice (alveolar adenomas) and no evidence of carcinogenicity in roale mice. Naphthalene has not been identified as a carcinogen by IARC or OSHA.

#### 12. ECOLOGICAL INFORMATION

Not evaluated at this time

#### 13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001) and benzene (D018). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent then the federal requirements.

Container contents should be completely used and containers should be emptied prior to discard. Container ?insate? could be considered a RCRA hazardous waste and must be disposed of with care and in compliance with federal, state and local regulations. Large empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller containers, consult with state and local regulations and disposal authorities.

#### 14. TRANSPORT INFORMATION

DOT Shipping Description:

Diesel Fuel, NA1983

Non-Bulk Package Marking:

Diesel Fuel, 3, NA 1993, III

Page 8 of 9

#### 15. REGULATORY INFORMATION



#### EPA SARA 311/312 (Title III Hazard Categories):

Acute Health:

Yes

Chronic Health:

Yes

Fire Hazard:

Yes

Pressure Hazard:

No

Reactive Hazard:

No

Water Street

#### SARA 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

Component

**CAS Number** 

Weight %

- None known --

#### California Proposition 65:

Warning: This material contains the following chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Component

Effect

Benzene Toluenc

Cancer, Developmental and Reproductive Toxicant

Developmental Toxicant

Diesel engine exhaust, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer.

#### Carcinogen Identification:

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any. Diesel exhaust is a probable cancer hazard based on tests in laboratory animals. It has been identified as carcinogen by IARC.

#### EPA (CERCLA Reportable Quantity: None

#### 16. OTHER INFORMATION

Issue Date: 01/01/02

Previous Issue Date: 05/15/01 Product Code: Multiple Revised Sections: None

Previous Product Code: Multiple

MSDS Number: 0041

#### Disclaimer of Expressed and Implied Warranties:

The information presented in this Material Data Safety Sheet is based on data believed to be accurate as of the date this Material Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THE PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license,

#### Page 9 of 9

#### Tosco Refining Company



#### UltraLow Sulfur Diesel Product Specification

Ferndale Product Code: 34380xx (5) Product Code: ULSD2

(COMETS)

Specification	Unit	Limit	Test Procedure	Typical
Appearance				
Water & Scdiment	Vol %	0.05 Max	D 2709	
Color	Number	3.0 Max	D 1500	
Haze Rating	Rating	2 Max	D 4176	
Composition				
Carbon Residue (Ramsbottom)	Wt %	0.35 Max	D 524, D 189	
Volatility				
90% Recovered	Deg; F	540 Min	D 86	
, , , , , , , , , , , , , , , , , , , ,	Deg; F	640 Min	D 86	1
Flash Point	Deg; F	125 Min (1)	D 93	130 F
Gravity	API	30 Min	D 287, D4052	
Fluidity	D E	San Sanaa Table (6)	D 97	)
Pour Point	Deg; F	See Season Table (6)	D 2500	10 F
Cloud Point	Deg; F	See Scason Table (6)	1 - ' ' '	101
Viscosity @ 104F	cSt	1.9 Min	D 445	İ
	¢\$t	4.1 Max	D 445	1
		2100 15	D (070	7700
Lubricity, SLBOCLE	grams	3100 Min	D 6078	3300gm
Lubricity, IJFRR	mm	.45	D 6079	
Combustion				
Cetane Index or Cetane Number	Number	40.0 Min	D 976, D613	47.0
(3,4)				<u> </u>
Corrosion	:			ł
Copper Strip, 3hr @ 50 deg C	Number	3 Max (2)	D 130	
Aromatics (4)	Vol %	35 Max	D 1319	25 %
Contaminants				
Total Sulfur	PPM	30 Max	D 2622, D4294	15-20ppm
Water & Sediment	Vol %	0.05 Max	D 1796	
Ash	Wt %	0.01 Max	D 482	
Additives				
Cetane Improver	Lb/MBbl	675 Max		
Dye		Undyed		

Minimum release specification is 125 deg. F. The refinery should target 135 deg. F. Test result reported as a number and letter (e.g. 1a). Any letter is allowable as long as the number meets the spec shown.

Either specification must be met.

Either cetane index minimum or aromatics maximum must be met.

Winter cloud and pour specifications may be relaxed to the summer specifications by agreement with the customer.

Season Table

Month	Product Code	Pour Poin	t Cloud Point
Jan, Feb, Nov, Dec	WI	0 max (5)	14 max (5)
Mar - Oct	SU	15 max	24 max

District I 1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III 90 Rio Brazos Road, Aztec, NM 87410 rict IV 20 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources 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 ACCEP	T SOLID WASTE
1.	RCRA Exempt: Non-Exempt:	4. Generator Francis Drive Dugan Production Continues
	Verbal Approval Received Yes No	5. Originating Site Redfern #2
2.	Management Facility Destination JFJ Landfarm	6. Transporter TRC Construction
3.	Address of Facility Operator P. O. Box 420, Farmington, NM 87499-0420	8. State New Mexico
7.	Location of Material (Street Address or ULSTR) P-8-28N-11W	
9.	Circle One:	
	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 classification of origin.	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be
P.D.	F DESCRIPTION OF MATERIAL:	
		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
	I impacted by used motor and compressor oils. Excavated with backhoe. (notice of will dline date of 1-30-06).	ritten order by BLM for cleanup action with
See	attached MSDS sheet on motor oil & compressor oil	
		and and
	702-702	
D-41	SESSING A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF	Control N
esti	mated Volume <u>less than 10 yards</u> cy Known Volume (to be entered by the op	perator at the end of the haul)cy
SIG	NATURE Waste Management Facility Authorized Agent / TITLE: Substances	Maryon DATE: 1/25/06
ΓY	PE OR PRINT NAME: Paul Story TELEP	PHONE NO. 325-1-52/
Ξ-N	MAIL ADDRESS VINCESOUTE Industrial & co = 45toms, Com	
	space for State Use)	, _ ,
Aı	PROVED BY: Deny faul TITLE: Envive	of Engr DATE: 1/27/06
ΑI	PPROVED BY: Martin TITLE: ENVIRO	

5 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

Revised June 10, 2003

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEPT	T SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Dugan Production Corp.
Yerbal Approval Received: Yes No	5. Originating Site Redfern #2
2. Management Facility Destination JFJ Landfarm	6. Transporter TRC Construction
3. Address of Facility Operator P. O. Box 420, Farmington, NM 87499-0420	8. State New Mexico
7. Location of Material (Street Address or ULSTR) P-8-28N-11W	
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 ne material is not-hazardous and the Generator's certification of origin. No waste class approved	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transp	ort.
Estimated Volume <u>less than 10 yards</u> cy Known Volume (to be entered by the op	erator at the end of the haul)cy
SIGNATURE TITLE: Waste Management Facility Authorized Agent	DATE:
TYPE OR PRINT NAME: TELEPI	HONE NO.
E-MAIL ADDRESS	
(This space for State Use)	
APPROVED BY: Levy teety TITLE:	7 /
APPROVED BY: TITLE:	



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson
Governor
Joanne Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

#### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address	2. Destination Name:			
Dugan Production Corp	J.F.J. Landfarm			
709 E. Murray Drive	C/O Industrial Ecosystems Inc.			
Farmington, NM 87499-0420	#81 CR 3150 Aztec, NM 87410			
505-325-1821	Phone: 505-632-1782 Fax: 505-632-1876			
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):			
Redfern #2	UL $\frac{P}{}$ , SECTION $\frac{8}{}$ , T- $\frac{28N}{}$ , R- $\frac{11W}{}$ or			
<b>\begin{align*}</b>	G(			
4. Source and Description of Waste	Street Address:			
4. Source and Description of Waste				
Soil impacted by used motor ar	nd compressor oils			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
r David Cilcum				
I, Paul Sikora	representative for :			
Print Name				
Dugan Production Corp	do hereby certify that, according to the			
Resource Conservation and Recovery Act (RCRA) and	Environmental Protection Agency's July, 1988, regulatory determination, the			
above described waste is: (Check appropriate classific	ation)			
DVDAGOT US II	YY NON BYRNERE NO. 11.			
EXEMPT oilfield waste	NON-EXEMPT oilfield waste which is non-hazardous by characteristic			
	Analysis or by product identification			
And that nothing has been added to the exempt or non-	evernt non _hazardays waste defined above			
And that nothing has been added to the exempt of non-	exempt non—nazardous waste defined above.			
For NON-EXEMPT waste the following documentation	on is attached (check appropriate items).			
X MSDS Information	Of its attached (check appropriate items):Other (description			
RCRA Hazardous Waste Analysis	Other (description			
Chain of Custody				
Chain of Custody				
This waste is in compliance with Degulated Levels of	of Naturally Occurring Radioactive Material (NORM) pursuant to 20			
NMAC 3.1 subpart 1403.C and D	Tradularly Occurring Radioactive Material (NORM) pursuant to 20			
Name (Original Signature).	Special Phone No: 505-325-1821			
Title: _ color toduction	Pay Key/P.O:			
Date: 1 - 18 - 10				
0	<del></del>			



#### TRACE METAL ANALYSIS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Redfern 2	Date Reported:	01-16-06
Laboratory Number;	35729	Date Sampled:	01-12-06
Chain of Custody:	15364	Date Received:	01-12-06
Sample Matrix:	Solid	Date Analyzed:	01-16-06
Preservative:	N/A	Date Digested:	01-16-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.169	0.001	5.0
Barium	4.48	0.001	100
Cadmium	0.040	0.001	1.0
Chromium	0.559	0.001	5.0
Lead	1.83	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Compressor Overflow.

Analyst

Review (Jollus

Multi-eyl oils

#### 602466-00 MOBIL PEGASUS 805 MATERIAL SAFETY DATA BULLETIN

#### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD.

FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS information:

800~662~4525

609-224-4644

CHEMTREC:

800-424-9300

-202-483-7616

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH: This product is not formulated to contain ingredients which have exposure limits established by 0.3, agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients. See Section 15 for European Label Information,

See Section 8 for exposure limits (if applicable).

#### 3. HAZARDS IDENTIFICATION

US OSRA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be bazardous. EFFECTS OF OVEREXPOSURE: No significant offects expected. EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. - NA

#### 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.

INHALATION: Not expected to be a problem.

INCESTION: Not expected to be a problem when indested. If

uncomfortable seek medical assistance.

#### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water foq. 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, .

drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fixes in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(f): 245(4/3) (ASTM D-92). Flammable limits - LEL: NE, UEL: NE. NF. NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sultur oxides and compounds.

## 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard 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: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. ENVIRONMENTAL FRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil. 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 hundling this product.

STORAGE: Do not store in open or unlabelled containers. Store away from strong exidizing agents or combustible material.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial dye protection practices should be employed.
SKIN PROTECTION: No special equipment required. However, good personal hydiene practices should always be followed.
EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

#### 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: Marketable ODOR THRESHOLD-ppm: NE

DH: NA BOILING POINT C(F): NE MELTING POINT C(F): NA FLASH POINT C(F): 245(4/3) (ASTM 0-92) FLAMMABILITY: NE AUTO FLAMMABILITY: NE EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA VAPOR PRESSURE-mmHq 20 C: & lt; U.1 VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE RELATIVE DENGITY, 15/4 C: 0.89 SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: NE VISCOSITY AT 40 C, cSt: VISCOSITY AT 100 C, cSt: -13.5POUR POINT C(F): -12(10) FREEZING POINT C(F): NE VOLATILE ORGANIC COMPOUND: NE

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.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly bydrocarbon fragments. Sulfur oxides and compounds.
HAZARDOUS POLYMERIZATION: Will not occur.

#### 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): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foresceable handling, use, or misuse of this product.

EYE IRRITATION (RABBITS): Practically non-irritating. (Oraize 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

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. ---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rate 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)--The base oils in this product, are severely solvent rotines at

severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinoqunic effects.

#### 12. FCOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed. controlled burner for tuel value or disposal by supervised incineration. 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 and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product

#### 14. TRANSPORT INFORMATION

may be regulated.

USA DOT: NOT REGULATED BY USA DOT. RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO. TATA: NOT REGULATED BY LATA.

#### 15. REGULATORY INFORMATION

1) (ZDDP) (0.33%)

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL. EU Labeling: Symbol: * EU labeling not required... Risk Phrase(s): R. NΆ Safety Phrase(s): Not applicable. U.S. Superfund Amendments and Reauthorization Act (SARA) Title [11]: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) REPORTABLE HAZARD CATEGORIES: None. This product contains no chemicals reportable under SARA (313) Loxic release program. The following product ingredients are cited on the lists below: CAS NUMBER LIST CITATIONS CHEMICAL NAME 1330-20-7 22 XYLENES (0.03%) ZINC (ELEMENTAL ANALYSIS) (& 1t; 0.04%) 7440-66-6 PROSPHORODITHOIC ACID, O.O-DI 68649~42~3 22 C1-14-ALKYL ESTERS, ZINC SALTS (2:

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL 6 IARC 1 11=TSCA 4 16=CA P65 CARC 21 LA RTK 12-TSCA 552 17-CA P65 REPRO 22-M1 293 2-ACCIH A1 7=TARC 2A 13mmsCA 5e B-ACCIH A2 8-IARC 2B 18 CA RTK 23=MN RTK 9=OSHA CARC 14=TSCA 6 19~FL RTK 4 WNTP CARC 24-NJ RTK SENTE SUS 10-OSHA Z 15-TSCA 12b 20=11 RTK 25°PA RTK Z6×R1 RTK

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

#### 16. OTHER INFORMATION

USE: ENGINE LUBRICANT

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 (or formulation 

For Internal Use Only: MHC: 0:0:NA 1:1:, MPPEC: A, TRN: 602466-00, GLIS: 400795, CMCS97: 970936, REQ: US - MARKETING, CAFE USE: L EHS Approval Date: 100CT1999

Legally required information is given in accordance with applicable Information given herein is offered in good taith 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 any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or retransmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America. 

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#### CORAL ENERGY RESOURCES, L.P.

Contract#:

010-NG-PS-07102

Trade Date: 12/21/2005

Contract Date: 04/01/2000

Deal #: 104217

Deal Maker: John

John Tracy

CONFIRMATION

**DUGAN PRODUCTION CORP** 

Attention: Contract Administration

Date: January 5, 2006

Contract Administration

Fax: 1(505) 327-4613

PO BOX 420

Phone: (505) 325-1821

**FARMINGTON, NM 87499-0420** 

This Confirmation ("Confirmation") shall confirm and effectuate the agreement between CORAL ENERGY RESOURCES, L.P. and DUGAN PRODUCTION CORP ("Counterparty") regarding the purchase and sale of natural gas under the following terms.

Seller.

**DUGAN PRODUCTION CORP** 

Buver.

CORAL ENERGY RESOURCES, L.P.

Period of Delivery Start /End Date	<u>Transporter/</u> <u>Delivery Point(s)</u>	Level of Service	Designated Quantity (MMBtu Per Day)	Contract Price (USD per MMBய )
01/01/06 - 01/31/06	WILLMSFLD KUTZ PLANT Str:Mtr # KUTZ	Firm	55 MMBTU	Inside F.E.R.C GAS Market Report ElPaso Ntrl Gas SanJuan minus .02

Other Costs: SpecialTerms:

Comments:

This Confirmation is being provided pursuant to and in accordance with the above referenced gas purchase and /or sale agreement between Counterparty and CORAL ENERGY RESOURCES, L.P. (the "Agreement") and constitutes part of and is subject to all of the provisions of the Agreement. With respect to the above stated deal identification number ( Deal# ) identifying this specific "Transaction", this Confirmation shall supersede any prior confirmations of this specific Transaction.

If no fascimile objection to this Confirmation is received by CORAL ENERGY RESOURCES, L.P. at (713) 265-2171, Attn: Energy Administration, from Counterparty by 5:00 p.m., Houston, Texas time, two (2) Businesss Days after delivery of this Confirmation to Counterparty, then this Confirmation shall be the final expression of all the terms hereof and shall be binding and enforceable against Seller and Buyer regardless of whether executed by Counterparty.

DUGAN	PRODUCTION	CORP

CORAL ENERGY RESOURCES, L.P.

Per:

Name/Title:

Date:

Per:

Name/Title: Patricia Butler - Contracts Manager

Date: January 5, 2006

Please return the signed confirmation to Fax: (713) 265-2171

Questions and concerns can be directed to Energy Administration at: CORAL ENERGY RESOURCES, L.P. 909 FANNIN PLAZA LEVEL 1 HOUSTON, TX 77010 PHONE: (713) 230-7505 FAX: (713) 265-2171

Diffrict 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 strict IV 20 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 I Copy to Appropriate District Office

REQUESCEPE APPROVAL TO ACCEP.	I SOLID WASTE
1. RCRA Exempt: Non-Exempt: ⊠	4. Generator Dugan Production Corp.
Verbal-Approval Received:  Yes No    No	5. Originating Site Gentle #2
2. Management Facility Destination JFJ Landfarm	6. Transporter TRC Construction
3. Address of Facility Operator P. O. Box 420, Farmington, NM 87499-0420	8. State New Mexico
7. Location of Material (Street Address or ULSTR) L-9-28N-11W	
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  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 class approved	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transp	ort.
BRIEF DESCRIPTION OF MATERIAL:  Soil impacted by used motor and compressor oils. Excavated with backhoe. (notice of windeadline date of 1-30-06).  See attached MSDS sheet on motor oil & compressor oil  Estimated Volume less than 10 yards cy Known Volume (to be entered by the open	13.14.15.76 15.16.15.76
Waste Management Facility Authorized Agent	Mangar DATE: 1/25/00.
TYPE OR PRINT NAME: TELEPH	HONE NO.
E-MAIL ADDRESS	
APPROVED BY: Low Martin TITLE: ENVIRO E	DATE: 1/27/86  NGR. DATE: 2-1-06

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

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

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BRIEF DESCRIPTION OF MATERIAL:  Soil impacted by used motor and compressor oils. Excavated with backhoe. (notice of w	ritten order by BLM for cleanup action with	
deadline date of 1-30-06).	Then order by BBM for ordinap action with	
See attached MSDS sheet on motor oil & compressor oil	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	DECENSION.  OF CONS. DIV.  Decrator at the end of the haul)cy	
SIGNATURE TITLE:	DATE:	
SIGNATURE TITLE:  Waste Management Facility Authorized Agent	DATE.	
TYPE OR PRINT NAME: Paul S. Kova TELEP	HONE NO. 325-1821	
E-MAIL ADDRESS	49	
(This space for State Use)		
APPROVED BY: Dery Jeen TITLE: Enviro	1 Engr DATE: 1/23/00	
APPROVED BY: TITLE:	$\ell$	



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson
Governor
Joanne Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

#### **CERTIFICATE OF WASTE STATUS**

	1. Generator Name and Address	2. Destination Name:
	Dugan Production Corp	J.F.J. Landfarm
	709 E. Murray Drive	C/O Industrial Ecosystems Inc.
	Farmington, NM 87499-0420	#81 CR 3150 Aztec, NM 87410
	505-325-1821	Phone: 505-632-1782 Fax: 505-632-1876
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Gentle #2	UL $\perp$ , SECTION $\frac{9}{}$ , T- $\frac{28N}{}$ , R- $\frac{11W}{}$ or
		Street Address:
	4. Source and Description of Waste	
	Soil impacted by used motor	and compressor oils
*		
l <u>,                                     </u>	Paul Sikora	representative for :
	Print Name	
	Dugan Production Corp	do hereby certify that, according to the
Resour		and Environmental Protection Agency's July, 1988, regulatory determination, the
	described waste is: (Check appropriate class	
	`	<b>`</b>
	EXEMPT oilfield waste	NON-EXEMPT oilfield waste which is non-hazardous by characteristic
		Analysis or by product identification
And th	at nothing has been added to the exempt or n	on-exempt non -hazardous waste defined above.
For NC	N-EXEMPT waste the following document	tation is attached (check appropriate items):
	X MSDS Information	Other (description
	RCRA Hazardous Waste Analysis	
	Chain of Custody	
		ls of Naturally Occurring Radioactive Material (NORM) pursuant to 20
NMAC	23.1 subpart 1403.C and D.	
		500 5- 70- KNI
Name	Original Signature	None No: 505 - 525 - 162
<u></u>	$\checkmark$ $\searrow$ $\searrow$	
Title	Kenter Regutten	Pay Key/P.O:
Date: _	1-18-6	



#### TRACE METAL ANALYSIS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Gentle 2	Date Reported:	01-16-06
Laboratory Number:	35727	Date Sampled:	01-12-06
Chain of Custody:	15364	Date Received:	01-12-06
Sample Matrix:	Solid	Date Analyzed:	01-16-06
Preservative:	N/A	Date Digested:	01-16-06
Condition:	Intact ,	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.060	0.001	5.0
Barium	0.597	0.001	100
Cadmium	0.162	0.001	1.0
Chromium	0.150	0.001	5.0
Lead	1.20	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Compressor Overflow.

Analyst

Review Walles

Molti-cyloils

#### 602466-00 MOBIL PEGASUS 805 MATERIAL SAFETY DATA BULLETIN

#### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD.

FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

-609-224-4644

Product and MSDS information: CHEMTREC:

800~662-4525 800-424-9300

202-483-7616

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH: This product is not formulated to contain ingredients which have exposure limits established by 0.8. agencies. It is not bazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients. See Section 15 for European Label Information. See Section 8 for exposure limits (if applicable).

#### 3. HAZARDS IDENTIFICATION

US OSBA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be bazardous. EFFECTS OF OVEREXPOSURE: No significant offects expected. EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. - NA

#### 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,

INHALATION: Not expected to be a problem.

INCESTION: Not expected to be a problem when indested. If

uncomfortable seek medical assistance.

#### ______ 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water foq. 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 free fire control or dilution from entering streams, sewers,

drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fixes in enclosed areas, fire fighters must use self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(f): 245(4/3) (ASTM D-92). Flammable Limits - LEU: NE, UEL: NE. NF. NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sultur oxides and compounds.

## 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard 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: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with correct applicable laws and regulations, and product characteristics at time of disposal. ENVIRONMENTAL FRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

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: Do not store in open or unlabelled containers. Store away from strong exidizing agents or combustible material.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial eye protection practices should be employed.
SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.
EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

#### 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

```
AN : HG
BOILING POINT CIF): NE
MELTING POINT C(F): NA
FLASH POINT C(F): 245(4/3) (ASTM 0-92)
FLAMMABILITY: NE
AUTO FLAMMABILITY: NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: & 11; 0.1
VAPOR DENSITY: > 2.0
EVAPORATION RATE: NE
RELATIVE DENGITY, 15/4 C: 0.89
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: NE
VISCOSITY AT 40 C, oSt: 130.0
VISCOSITY AT 100 C, est: 13.5
POUR POINT C(F): -12(10)
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
      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. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds. HAZARDOUS POLYMERIZATION: Will not occur.

#### 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): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components. INHALATION TOXICITY (RATS): Not applicable --- Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foresceable handling, use, or misuse of this product. EYE IRRITATION (RABBITS): Practically non-inditating. (Draine 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. --- SUBCHRONIC TOXICOLOGY (SUMMARY) ---Severely solvent refined and severely hydrotreated mineral base oils

have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rate 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY) ---

The base oils in this product are severely solvent retines of

severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects.

#### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for tue! value or disposal by supervised incineration. 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 (acility 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 2610), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined 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. TATA: NOT REGULATED BY LATA.

#### 15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELLNCS, AICS, and DSL. EU Labeling: Symbol: * EU labeling not required ... Risk Phrase(s): R. Safety Phrase(s): Not applicable. U.S. Superfund Amendments and Reauthorization Act (SAPA) Title [11]: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) REPORTABLE HAZARD CATEGORIES: None. This product contains no chemicals reportable under

SARA (313) toxic release program.

The following product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS 

1330-20-7 22 XYLENES (0.03%) ZINC (ELEMENTAL ANALYSIS) (& 1t; 0.04%) 7440-66-6 PHOSPHORODITHOIC ACID, 0,0-DI 68649-42-3 22 C1-14-ALKYL ESTERS, ZINC SALTS (2:

1) (ZDDF) (0.33%)

#### --- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6 IARC	1	11=TSCA	4	16=CA	P65	CARC	21 ° LA	RTK
2-ACCIH Al	7=TARC	2A	12=TGCA	5a2	17#CA	P65	REPRO	22#MT	293
BHACGIH A2	8-IARC	28	13-TSCA	5⊛	18 CA	RTK		23=MN	PCTK
4 HNTP CARC	9=OSHA	CARC	14 = TSCA	ยั	1.9~64.	RTK		24~NJ	RTK
SENTE SUS	ARSO-01	7.	15-TSCA	1.2b	20 = 11.	RTK		$2.5 \pm PA$	RTK
							26-83	RTK	

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

#### 16. OTHER INFORMATION

USE: ENGINE LUBRICANT

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN POBS.

Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

For Internal Use Only: MHC: 0° 0° NA 1° 1°, MPPEC: A, TRN: 602466-00, GLIS: 400795, CMCS97: 970936, REQ: US - MARKETING, CAFE USE: L. EHS Approval Date: 100CT1999

Legally required information is given in accordance with applicable Information given herein is offered in good taith 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 any license under valid patents. Appropriate warnings and cafe handling procedures should be provided to bandiers and users. Use or retransmission of the information contained herein in any other format than the formal as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America. 

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#### **CORAL ENERGY RESOURCES, L.P**

Contract#:

010-NG-PS-07102

Contract Date: 04/01/2000

Deal Maker:

John Tracy

Trade Date: 12/21/2005

Deal #: 104217

#### CONFIRMATION

**DUGAN PRODUCTION CORP** 

Attention: Contract Administration

PO BOX 420

SpecialTerms: Comments:

FARMINGTON, NM 87499-0420

Date: January 5, 2006

Fax:

1(505) 327-4613

Phone: (505) 325-1821

This Confirmation ("Confirmation") shall confirm and effectuate the agreement between CORAL ENERGY RESOURCES, L.P. and DUGAN PRODUCTION CORP ("Counterparty") regarding the purchase and sale of natural gas under the following terms.

Seller.

**DUGAN PRODUCTION CORP** 

Buyer.

CORAL ENERGY RESOURCES, L.P.

Period of Delivery Start /End Date	<u>Transporter/</u> <u>Delivery Point(s)</u>	Level of Service	Designated Quantity (MMBtu Per Day)	Contract Price (USD per MMBtu )
01/01/06 - 01/31/06	WILLMSFLD KUTZ PLANT SmMtr# KUTZ	Firm	55 MMBTU	Inside F.E.R.C GAS Market Report ElPaso Ntrl Gas SanJuan minus .02
Other Costs:				

This Confirmation is being provided pursuant to and in accordance with the above referenced gas purchase and /or sale agreement between Counterparty and CORAL ENERGY RESOURCES, L.P. (the "Agreement") and constitutes part of and is subject to all of the provisions of the Agreement. With respect to the above stated deal identification number (Deal#) identifying this specific "Transaction", this Confirmation shall supersede any prior confirmations of this specific Transaction.

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#### **DUGAN PRODUCTION CORP**

CORAL ENERGY RESOURCES, L.P.

Per. Per: Name/Title: Patricia Butler - Contracts Manager Name/Title: ---January 5, 2006 Date: Date:

Please return the signed confirmation to Fax: (713) 265-2171

Questions and concerns can be directed to Energy Administration at: CORAL ENERGY RESOURCES, L.P., 909 FANNIN PLAZA LEVEL 1 HOUSTON, TX 77010 PHONE: (713) 230-7505 FAX: (713) 265-2171

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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

Ed Martin

Submit Original Plus 1 Copy to Appropriate District Office

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Management Facility Destination	6. Transporter TRC Construction
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All transporters must certify the wastes delivered are only those consigned for transp	port.
Soil impacted by used motor and compressor oils. Excavated with backhoe. (notice of wide addine date of 1-30-06).  See attached MSDS sheet on motor oil & compressor oil  Estimated Volume less than 10 yards cy Known Volume (to be entered by the op	erator at the end of the haul) cy
Waste Management Facility Authorized Agent	MANOGER DATE: 1/25/04
TYPE OR PRINT NAME: TELEPI	HONE NO.
E-MAIL ADDRESS	
APPROVED BY: Sel Martin TITLE: ENVIRO.	Engr DATE: 1/27/06  ENGR. DATE: 2-1-06

District I
1625 N. French Dr., Hobbs, NM 88240
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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

. P - -

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit Original Plus 1 Copy to Appropriate District Office

Revised June 10, 2003

Form C-138

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: No Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server	4. Generator Dugan Production Corp.  5. Originating Site Gentle #3
Management Facility Destination	6. Transporter TRC Construction
3. Address of Facility Operator P. O. Box 420, Farmington, NM 87499-0420	8. State New Mexico
7. Location of Material (Street Address or ULSTR) P-8-28N-11W	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  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 classification approved  All transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste classification of origin approved.	necessary chemical analysis to PROVE the assified hazardous by listing or testing will be
Soil impacted by used motor and compressor oils. Excavated with backhoe. (notice of w deadline date of 1-30-06).  See attached MSDS sheet on motor oil & compressor oil  AN 2006  Estimated Volume less than 10 yards cy Known Volume (to be entered by the open compressor).	perator at the end of the haul)cy
SIGNATURE TITLE: Waste Management Facility Authorized Agent	DATE:
	HONE NO.
(This space for State Use)  APPROVED BY: TITLE:  TITLE:	



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson
Governor
Joanne Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

#### CERTIFICATE OF WASTE STATUS

	I Common Name of Addition	2 Desiration N
	1. Generator Name and Address	2. Destination Name:
	Dugan Production Corp	J.F.J. Landfarm
	709 E. Murray Drive	C/O Industrial Ecosystems Inc.
	Farmington, NM 87499-0420	#81 CR 3150 Aztec, NM 87410
	505-325-1821	Phone: 505-632-1782 Fax: 505-632-1876
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Gentle #3	UL $\underline{P}$ , SECTION $\underline{8}$ , T- $\underline{28N}$ , R- $\underline{11W}$ or
		Street Address:
	4. Source and Description of Waste	3, 444 1.243, 433,
	Soil impacted by used motor	and compressor oils
	· - · ·	
I <u>,                                     </u>	Paul Sikora	representative for :
	Print Name	
	Dugan Production Corp	do hereby certify that, according to the
	urce Conservation and Recovery Act (RCRA) e described waste is: (Check appropriate class)	and Environmental Protection Agency's July, 1988, regulatory determination, the
100 **	described waste is. (Cheek appropriate class.	·
	EXEMPT oilfield waste	NON-EXEMPT oilfield waste which is non-hazardous by characteristic
		Analysis or by product identification
And t	that nothing has been added to the exempt or n	on-exempt non –hazardous waste defined above.
	IONI DIVIDENDE	
For N	ION-EXEMPT waste the following document	
	X MSDS Information	Other (description
	RCRA Hazardous Waste Analysis	
	Chain of Custody	
	4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	C 3.1 subpart 1402.C and D.	ls of Naturally Occurring Radioactive Material (NORM) pursuant to 20
No.	(Oniginal Signature)	SKB Phone No: 505 - 325 - 1621
Namo	e (Original Signature):	CORDINATIONE NO.
	Deport toduction	
Date	1-18-10	
	_	



#### TRACE METAL ANALYSIS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Gentle 3	Date Reported:	01-16-06
Laboratory Number:	35726	Date Sampled:	01-12-06
Chain of Custody:	15364	Date Received:	01-12-06
Sample Matrix:	Solid	Date Analyzed:	01-16-06
Preservative:	N/A	Date Digested:	01-16-06
Condition:	Intact _.	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.130	0.001	<b>5</b> 0
Barium	0.130	0.001	5.0 100
Cadmium	0.036	0.001	1.0
Chromium	0.454	0.001	5.0
Lead	1.19	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Compressor Overflow.

Analyst

Review

Multi-cyloils

#### 602466-00 MOBIL PEGASUS 805 MATERIAL SAFETY DATA BULLETIN

#### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805

SUPPLIER: MOBIL OIL CORF.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD.

FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS information:

800~662-4525

609-224-4644

CHEMTREC:

800-424-9300

202-483-7616

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES UNGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 15 for European Label Information.

See Section 15 for European Label Information.
See Section 8 for exposure limits (if applicable).

### 3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be bazardous. EFFECTS OF OVEREXPOSURE: No significant offects expected. EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. - NA

#### 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.

INHALATION: Not expected to be a problem.

INCESTION: Not expected to be a problem when indested. It

uncomfortable seek medical assistance.

### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water (eq. 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 fire fire contiol or dilution from entering streams, sewers,

drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fixes in enclosed areas, fire fighters must use self-contained breathing apparatus. 
UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(f): 245(4/4) (ASTM p-92). Flammable Limits - LEU; NE, UEL: NE. NF. NFPA HAZARD 1D: Health: 0, Flammability: 1, Reactivity: 0 RAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sultur oxides and compounds.

# 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard 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: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. ENVIRONMENTAL FRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

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: Do not store in open or unlabelled centainers. Store away from strong oxidizing agents or combustible material.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESP(RATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial eye protection practices should be employed.
SKIN PROTECTION: No special equipment tequired. However, good personal hygiene practices should always be followed.
EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

#### 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 POINT C(F): NE

MELTING POINT C(F): NA

FLASH POINT C(F): 245(4/3) (ASTM 0-92)

FLAMMABILITY: NE

AUTO FLAMMABILITY: NE EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHq 20 C: 6 11; 0.1

VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE

RELATIVE DENGITY, 15/4 C: 0.89 SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: NE

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

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.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds.
HAZARDOUS POLYMERIZATION: Will not occur.

#### 11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

OBAL 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 (LDSO: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foresceable handling, use, or misuse of this product.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draine 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. ---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Severely solvent refined and severely hydroticated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rate 5 days/week for 90 days at doses significantly higher than these expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY) ---

The base oils in this product, are severely solvent retinated.

severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinoqunic effects.

#### 12, ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed. controlled burner for fuel value or disposal by supervised incineration. 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, corresivity, or reactivity and is not formulated with contaminants as determined 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. TATA: NOT REGULATED BY LATA.

#### 15. REGULATORY INFORMATION

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

Symbol: * EU labeling not required...

Risk Phrase(s): R.

Safety Phrase(s): Not applicable.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title [11]:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals reportable under

SARA (313) toxic release program.

The following product ingredients are cited on the lists below: CAS NUMBER LIST CITATIONS CHEMICAL NAME

-----1330-20-7 XYLENES (0.03%) ZINC (ELEMENTAL ANALYSIS) (& 1t; 0.04%) 7440-66-6

68649-42-3 22 PHOSPHORODITHOIC ACID, O.O-DI C1-14-ALKYL ESTERS, ZINC SALTS (2:

1) (ZDDP) (0.33%)

--- REGULATORY LISTS SEARCHED ---

1=ACGTH ALL 6 IARC 1 11=TSCA 4 16=CA P65 CARC 21-LA RTK 2=ACGTH A1 7=IARC 2A 12*TSCA 5a2 17=CA P65 REPRO 22=M1 293 3=ACGTH 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 12b 20=1L RTK 25*PA RTK 26*RJ RTK

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

#### 16. OTHER INFORMATION

USE: ENGINE LUBRICANT

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

For Internal Use Only: MHC: 0' 0' NA 1' 1', MPPEC: A, TRN: 602466-00, GLIS: 400795, CMCS97: 970936, REQ: US - MARKETING, SAFE USE: L. EHS Approval Date: 100CT1999

Legally required information is given in accordance with applicable 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 EXPRESSIY 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 any license under valid patents. Appropriate warnings and safe handling procedures should be provided to bandiers and users. Use or retransmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America. *************************

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#### CORAL ENERGY RESOURCES, L.P.

Contract#:

010-NG-PS-07102

Contract Date:

04/01/2000

Deal Maker:

John Tracy

Trade Date: 12/21/2005

Deal #: 104217

#### CONFIRMATION

DUGAN PRODUCTION CORP

Attention: Contract Administration

PO BOX 420

FARMINGTON, NM 87499-0420

January 5, 2006 Date:

Fax:

1(505) 327-4613

Phone: (505) 325-1821

This Confirmation ("Confirmation") shall confirm and effectuate the agreement between CORAL ENERGY RESOURCES, L.P. and DUGAN PRODUCTION CORP ("Counterparty") regarding the purchase and sale of natural gas under the following terms.

**DUGAN PRODUCTION CORP** 

CORAL ENERGY RESOURCES, L.P.

Period of Delivery Start /End Date	<u>Transporter/</u> <u>Delivery Point(s)</u>	Level of Service	Designated Quantity (MMBtu Per Day)	Contract Price (USD per MMBtu )
01/01/06 - 01/31/06	WILLMSFLD KUTZ PLANT Stn/Mtr#KUTZ	Firm	55 MMBTU	Inside F.E.R.C GAS Market Report ElPaso Ntrl Gas SanJuan minus .02
Other Costs:				
SpecialTerms:				
Comments:				

This Confirmation is being provided pursuant to and in accordance with the above referenced gas purchase and /or sale agreement between Counterparty and CORAL ENERGY RESOURCES, L.P. (the "Agreement") and constitutes part of and is subject to all of the provisions of the Agreement. With respect to the above stated deal identification number ( Deal# ) identifying this specific "Transaction", this Confirmation shall supersede any prior confirmations of this specific Transaction.

If no fascimile objection to this Confirmation is received by CORAL ENERGY RESOURCES, L.P. at (713) 265-2171, Attn: Energy Administration, from Counterparty by 5:00 p.m., Houston, Texas time, two (2) Businesss Days after delivery of this Confirmation to Counterparty, then this Confirmation shall be the final expression of all the terms hereof and shall be binding and enforceable against Seller and Buyer regardless of whether executed by Counterparty.

#### DUGAN PRODUCTION CORP

CORAL ENERGY RESOURCES, L.P.

Per. Name/Title: Patricla Butler - Contracts Manager Name/Title: -January 5, 2006 Date: Date:

Please return the signed confirmation to Fax: (713) 265-2171

Questions and concerns can be directed to Energy Administration at: CORAL ENERGY RESOURCES, L.P. 909 FANNIN PLAZA LEVEL 1 HOUSTON,TX 77010 PHONE: (713) 230-7505 FAX: (713) 265-2171

### District 1 - 1625 N. Fier of Dr., Hobbs, NM 88240 District II 1301; W. Gwind Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV S. St. Francis Dr., Santa Fe, NM 87505

# State of M.w. Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fr. NN 87505

Form C-138 Revised June 10, 2003

> Submit Original Plus 1 Copy to Appropriate District Office

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REQUEST FOR APPROVAL TO ACCE	PT SOLID WASTE
1. RCRA Exempt: Non-Exempt: Verbal Approval Received: Yes No	4. Generator Dugan Production Corp.  5. Originating Site Aloha #1
2. Management Facility Destination JFJ Landfarm	6. Transporter TRC Construction
3. Address of Facility Operator P. O. Box 420, Farmington, NM 87499-0420	8. State New Mexico
7. Location of Material (Street Address or ULSTR) L-16-28N-11W	
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accompanied by rematerial is not-hazardous and the Generator's certification of origin. No waste clapproved	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	
	perator at the end of the haul)cy
Waste Maliagement Pacinity Authorized Agent	Managuse DATE: 1/25/86 PHONE NO.
(This space for State Use)  ROVED BY: Lemy Feet TITLE: Environment TITLE: ENVIRO.	ENGR. DATE: 2-1-06

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

APPROVED BY:

## 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 Dugan Production Corp. 1. RCRA Exempt: Non-Exempt: Werbal Approval Received: Yes  $\square$ 5. Originating Site Aloha #1 6. Transporter 2. Management Facility Destination JFJ Landfarm TRC Construction 8. State 3. Address of Facility Operator P. O. Box 420, Farmington, NM 87499-0420 New Mexico 7. Location of Material (Street Address or ULSTR) L-16-28N-11W 9. Circle One: 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 All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Soil impacted by used motor and compressor oils. Excavated with backhoe. (notice of written order by BLM for cleanup action with deadline date of 1-30-06). See attached MSDS sheet on motor oil & compressor oil Estimated Volume <u>less than 10 yards</u> cy Known Volume (to be entered by the operator at the end of the haul) SIGNATURE Waste Management Facility Authorized Agent TELEPHONE NO. _____ TYPE OR PRINT NAME: -E-MAIL ADDRESS (This space for State Use) TITLE: _____ DATE: _/



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson
Governor
Joanne Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

#### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address	2. Destination Name:
Dugan Production Corp	J.F.J. Landfarm
709 E. Murray Drive	C/O Industrial Ecosystems Inc.
Farmington, NM 87499-0420	#81 CR 3150 Aztec, NM 87410
505-325-1821	Phone: 505-632-1782 Fax: 505-632-1876
3. Originating Site (name):	Location of the Waste (Street address & or ULSTR):
Aloha #1	UL $\perp$ , SECTION $16$ , T- $28N$ , R- $11W$ or
	Street Address:
4. Source and Description of Waste	
Soil impacted by used motor and comp	ressor oils
I David Sikona	
I, Paul Sikora Print Name	representative for :
Dugan Production Corp	do hereby certify that, according to the
Resource Conservation and Recovery Act (RCRA) and Environmen	tal Protection Agency's July, 1988, regulatory determination, the
above described waste is: (Check appropriate classification)	
	XEMPT oilfield waste which is non-hazardous by characteristic by product identification
And that nothing has been added to the exempt or non-exempt non -	hazardous waste defined above.
For NON-EXEMPT waste the following documentation is attached	(about appropriate items).
	Ctheck appropriate items): Other (description
RCRA Hazardous Waste Analysis	Other (description
Chain of Custody	
This waste is in compliance with Regulated Levels of Naturally C	Occurring Radioactive Material (NORM) nursuant to 20
NMAC 3.1 subpart 140%.C and D.	g , p , p , p , p , p , p , p , p , p , p , p , p , p , p , p , p
Name (Original Signature)	FRhone No: 505 - 325 - 182 !
Title: Santor Fraduction Foremoun	Pay Key/P.O:
Date: 1 - 18 - 6	



#### TRACE METAL ANALYSIS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Aloha 1	Date Reported:	01-16-06
Laboratory Number:	35728	Date Sampled:	01-12-06
Chain of Custody:	15364	Date Received:	01-12-06
Sample Matrix:	Solid	Date Analyzed:	01-16-06
Preservative:	N/A	Date Digested:	01-16-06
Condition:	Intact	Analysis Needed:	Total Metals
	*		

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.151	0.001	5.0
Barium	4.79	0.001	100
Cadmium	0.127	0.001	1.0
Chromium	0.277	0.001	5.0
Lead	1.35	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Compressor Overflow.

\nalyst

Review Walte

Multi-eyl oils

#### 602466-00 MOBIL PEGASUS 805 MATERIAL SAFETY DATA BULLETIN

#### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD. FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411 Product and MSDS information: 800~662-4525

609-224-4644

CHEMTREC:

800-424-9300

202-483-7616

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBORS AND ADDITIVES INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH: This product is not formulated to contain ingredients which have exposure limits established by 0.3. agencies. It is not bazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a requiatory analysis of the ingredients. See Section 15 for European Label Information.

See Section 8 for exposure limits (if applicable).

#### 3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product absessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be bazardous. EFFECTS OF OVEREXPOSURE: No significant offects expected. EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. - NA

#### 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,

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem when indested. If

uncomfortable seek medical assistance.

#### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water (eq. 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 free fire control or dilution from entering streams, sewers, -

drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fixes in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(f): 245(4/3) (ASTM D-92). Flammable limits - LEU; NE, UEL: NE. NFPA MAZARD 1D: Health: 0, Flammability: 1, Reactivity: 0 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sultur oxides and compounds.

#### 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard 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: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with corrent applicable laws and regulations, and product characteristics at time of disposal. ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

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: Do not store in open or unlabelled containers. Store away from strong exidizing agents or combustible material.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial eye protection practices should be employed.
SKIN PROTECTION: No special equipment required. However, good personal hydiene practices should always be followed.
EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, 5 exposure limit of 5.00 mg/m3 is suggested for oil mist.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

APPEARANCE: Liquid COLOR: Light Amber

ODOR: Markerable ODOR THRESHOLD-ppm: NE DH: NA BOILING POINT CIF): NE MELTING POINT C(F): NA FLASH POINT C(F): 245(4/3) (ASTM 0-92) PLAMMAB) LITY: NE AUTO FLAMMABILITY: NE EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA VAPOR PRESSURE-mmHg 20 C: & 11; 0.1 VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE RELATIVE DENGITY, 15/4 C: 0.89 SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: NE VISCOSITY AT 40 C, oSt: VISCOSITY AT 100 C, eSt: -13.5POUR POINT C(F): -12(10)FREEZING POINT C(F): NE VOLATILE ORGANIC COMPOUND: NE

NA-NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

#### 10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Snable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

#### 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): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foresceable handling, use, or misuse of this product.

EYE 1RRITATION (RABBITS): Practically non-irritating. (Draine 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.

---SUBCHRONIC TOXICOLOGY (SUMMARY)--Severely solvent refined and severely hydrotreated mineral base oils
have been tested at Mobil Environmental and Health Sciences
Laboratory by dermal application to rate 5 days/week for 90 days
at doses significantly higher than these expected during normal
industrial exposure. Extensive evaluations including microscopic
examination of internal organs and clinical chemistry of body
fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)--The base oils in this product are severely solvent retinated.

severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects.

#### 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. 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 all 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 and is not formulated with contaminants as determined 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. TATA: NOT REGULATED BY LATA.

#### 15. REGULATORY INFORMATION

1) (ZDDP) (0.33%)

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL. EU Labeling: Symbol: * EU labeling not required.. Risk Phrase(s): R. Safety Phrase(s): Not applicable. U.S. Superfund Amendments and Reauthorization Act (SARA) Title [11] This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) REPORTABLE HAZARD CATEGORIES: None. This product contains no chemicals reportable under SARA (313) toxic release program. The following product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIGT CITATIONS ----------_____ XYLENES (0.03%) 1330-20-7 22 ZINC (ELEMENTAL ANALYSIS) (& 1t; 0.04%) 7440-66-6 PROSPHORODITHOIC ACID, O.O-DI 68649~42~3 22 CI-14-ALKYL ESTERS, ZINC SALTS (2:

#### --- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6 IARC	1	ll=TSCA	4	16≕CA	P65	CARC	21 - LA	RTK
2-ACCIH Al	7=TARC	2A	1.2≈TSCA	5a2	17#CA	P65	REPRO	22#MT	293
B-ACGIR A2	8-IARC	28	13-TSCA	5e	18 - CA	RTK		23=MN	RTK
4 ENTP CARC	9≖osha	CARC	14-TSCA	ย์	$1.9 \sim FT_0$	RTK		24 ~ N.T	RTE
5=NTP SUS	10-03HA	7.	15-TSCA	1.2b	20#11	RTK		25 × PA	RTK
							26×R3	RTK	

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

#### 16. OTHER INFORMATION

USE: ENGINE LUBRICANT

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN POBS.

Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

For Internal Use Only: MHC: 0' 0' NA 1" 1", MPPEC: A, TRN: 602466-00, GLIS: 400795, CMCS97: 970936, REQ: US - MARKETING, SAFE USE: 1. EHS Approval Date: 100CT1999

Legally required information is given in accordance with applicable 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 any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or retransmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America. **************************

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#### CORAL ENERGY RESOURCES, L.P.

Contract#:

ذرة

010-NG-PS-07102

Contract Date: 04/01/2000

Deal Maker.

John Tracy

Trade Date: 12/21/2005

Deal #: 104217

#### CONFIRMATION

DUGAN PRODUCTION CORP

Attention: Contract Administration

PO BQX 420

FARMINGTON, NM 87499-0420

Date: January 5, 2006

Fax: 1(505) 327-4613

Phone: (505) 325-1821

This Confirmation ("Confirmation") shall confirm and effectuate the agreement between CORAL ENERGY RESOURCES, L.P. and DUGAN PRODUCTION CORP ("Counterparty") regarding the purchase and sale of natural gas under the following terms.

Seller.

**DUGAN PRODUCTION CORP** 

Buver

CORAL ENERGY RESOURCES, L.P.

Period of Delivery Start /End Date	<u>Transporter/</u> <u>Delivery Point(s)</u>		Designated Quantity (MMBtu Per Day)	Contract Price (USD per MMBtu )
01/01/06 - 01/31/06	WILLMSFLD KUTZ PLANT Stn/Mtr# KUTZ	Firm	55 MMBTU	Inside F.E.R.C GAS Market Report ElPaso Ntrl Gas SanJuan minus .02
Other Costs:				
SpecialTerms:				
Comments:				

This Confirmation is being provided pursuant to and in accordance with the above referenced gas purchase and /or sale agreement between Counterparty and CORAL ENERGY RESOURCES, L.P. (the "Agreement") and constitutes part of and is subject to all of the provisions of the Agreement. With respect to the above stated deal identification number ( Deal# ) identifying this specific "Transaction", this Confirmation shall supersede any prior confirmations of this specific Transaction.

If no fascimile objection to this Confirmation is received by CORAL ENERGY RESOURCES, L.P. at (713) 265-2171, Attn: Energy Administration, from Counterparty by 5:00 p.m., Houston, Texas time, two (2) Businesss Days after delivery of this Confirmation to Counterparty, then this Confirmation shall be the final expression of all the terms hereof and shall be binding and enforceable against Seller and Buyer regardless of whether executed by Counterparty.

#### **DUGAN PRODUCTION CORP**

CORAL ENERGY RESOURCES, L.P.

121 12 11 1

Per.	Per:	To petter	
Name/Title	Name/Title:	Patricia Butler - Contracts Manager	
Date:	Date:	January 5, 2006	
<b>5</b> 5 15 1			

Please return the signed confirmation to Fax: (713) 265-2171

Questions and concerns can be directed to Energy Administration at: CORAL ENERGY RESOURCES, L.P. 909 FANNIN PLAZA LEVEL 1 HOUSTON,TX 77010 PHONE: (713) 230-7505 FAX: (713) 265-2171

RECHIVED

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 Gonservation Division 1220 South Str Francis, Dr. Santan Fe, NM8750S Form C-138 Revised Murch 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

#### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ATTROVAL TO ACCES	
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Conoco Phillips (Burlington Resources)
Verbal Approval Received: Yes \ No: \	5. Originating Site: Ute 31-11 # 101 ·
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499  7. Location of Material (Street Address or ULSTR)	8. State: NM
U-B, S-01, T-32N, R-11W	
9. Circle One:  A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  B. 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  All transporters must certify the wastes delivered are only tho BRIEF DESCRIPTION OF MATERIAL: clean up of impacted soil from spill of un Estimated Volume  10 cy  Known Volume (to be entered by the operator at the e	see consigned for transport.  used antifreeze (MSDS attached)
SIGNATURE TITLE: Operation  Waste Management Facility Authorized Agent	os Manager DATE: <u>9/21/2006</u>
TYPE OR PRINT NAME: <u>Joel Owens</u> TELEPHONE NO. (505) 632-1782	
E-MAIL ADDRESS: jtowens@industrialecosystems.com	
(This space for State Use)  APPROVED BY: Grandon Donald TITLE: Enviro / S  APPROVED BY: TITLE: ENVIRO E	pec DATE: 9/21/06  DATE: 4/26/07

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
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 March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator: 5 F Conoco Phillips (Burlington Resources)
Verbal Approval Received: Yes No: \Branches No: \Branches Powel) - O(1)	5. Originating Site: Ute 31-11 # 101
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR) U-B, S-01, T-32N, R-11W	
A. All requests for approval to accept oilfield exempt wastes will be accompanion one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accompanied material is not-hazardous and the Generator's certification of origin. No was approved  All transporters must certify the wastes delivered are on BRIEF DESCRIPTION OF MATERIAL: clean up of impacted soil from spill Estimated Volume 10 cy Known Volume (to be entered by the operator at	d by necessary chemical analysis to PROVE the ste classified hazardous by listing or testing will be ly those consigned for transport.  of unused antifreeze (MSDS attached)
SIGNATURE TITLE: Open	erations Manager DATE: 9/21/2006
TYPE OR PRINT NAME: <u>Joel Owens</u> TELEPHONE NO. <u>(505) 632-1</u>	<u>1782</u>
E-MAIL ADDRESS: <u>jtowens@industrialecosystems.com</u>	
(This space for State Use)	
APPROVED BY: TITLE:	DATE:
APPROVED BY: TITLE:	DATÉ:





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery
Director
Oil Conservation Division

#### CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name;
ConocoPhillips	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
(Formerly Burlington Resources)	#81 CR 3150
3401 E 30 th . St.	Aztec, NM 87410
Farmington, New Mexico 87499	Phone # 505-632-1782 Fax No# 505-632-1876
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Ute 32-11 #101	U- B S- 01 T- 32N R- 11W
hBR	La Plata County, Colorado
4. Source and Description of Waste	
Clean up of impacted soil from spill	of unused antifreeze.
5.	
I,Ed Haselyrepresentative	ve for :
Print Name	
Burlington Resources	do hereby certify that, according to the Resource
	Protection Agency's July, 1988, regulatory determination, the above
described waste is: (Check appropriate classification)	
	NON-EXEMPT oilfield waste which is non-hazardous by characteristic
ana	lysis or by product identification
	•
and that nothing has been added to the exempt or non-exemp	ot non -hazardous waste defined above
and that house and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	7, 1123
For NON-EXEMPT waste the following documentation is a	attached (check appropriate items);
X_MSDS Information	Other (description
RCRA Hazardous Waste Analysis	
Chain of Custody	
This waste is in compliance with Regulated Levels of Nat	turally Occurring Radioactive Material (NORM) pursuant to 20
NMAC 3.1 subpart 1403.C and D.	
Name (Original Signature):	
Mist. Mars to as	
Title: Env. Rep Date: 9/20/06	
DAIG. 7/20/08	
Oil Consequies Division *	1000 Rio Bryzos Road * Aztec New Mexico 87410

#### MATERIAL SAFETY DATA SHEET

COASTALGUARD 50 ANTIFREEZE/COOLANT (REPROCESSED)

- HMIS HEALTH
- HMIS FLAMMABILITY 1
- HMIS REACTIVITY D
- HMTS PERSONAL PROTECTIO •

			В	HWIR 1	PEKSONAL	PROTECTIO:
:						
						:도움적으므로 함으::
·	SECTION I	- IDE	TIPICATION			
		ZF25F==3F=	:=====================================		- 华华	
DISTRIBUTED BY	COASTAL (318)893		CO., INC			
EMERGENCY PHONE NUMBER	CHEMTREC	(800) 424-	9300		•	
EFFECTIVE DATE	2/06/199	6				
MANUFACTURER'S NAME			O., INC.		•	
TRADE NAME				COLANT	(REPROCE	SSED)
CHEMICAL FAMILY	INHIBITE	D ETHYLENE	GLYCOL SO	LUTION		•
CAS NUMBER	Blended :	Product				
CHEMICAL FORMULA	Blended :	Product				
		ř	•			
P=4===================================	= <b>C</b> ===================================		P=45356p=2	E==E=;	;+==c=nc=	
SECT	ION II	- HAZARDOU	s ingredie	NTS		
	, <u>;</u> =====p=:					+E======
HAZARDOUS COMPONENTS	*	TLV	(Units)		PŖOD	. CA\$ #
<b>3</b>						
AHYLENE GLYCOL	50 % Z	acgih ceil	ING 50ppm	•	107-	21-1
化し 日本 出力 中央 日本 はままな 日本 のかり 日本 自主 日本 にゅうしゅう			3224422 <b>2</b>	*======		#2=# <del>*</del> ==
	SECTION I	II - PHYS	ICAL DATA			
	+20==4552;			as===5=		

FREEZING POINT (F)..... APPROX. -34 DEG F VAPOR PRESSURE (mm Hg)... 0.12 MMHG @ 25 C VAPOR DENSITY (Air=1).... 2.14 SOLUBILITY IN H20..... COMPLETELY MISCIBLE 

#### SECTION IV - PIRE AND EXPLOSION HAZARD DATA

downwind side.

AFTER WATER EVAPORATES FLASH APPROX. 247 DEG F. LOWER FLAME LIMIT..... N/D HIGHER FLAME LIMIT..... N/D EXTINGUISH MEDIA..... Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO2). UNUSUAL FIRE HAZARD..... NONE KNOWN Approach fire from upwind side. Avoid breathing smoke , fumes, mist or vapors on the

FLASH POINT..... WATER BLEND, NO FLASH AT BOILING POINT OF 212 DEG F.

> SECTION V - HEALTH HAZARD DATA

From UNIVERSAL COMPRESSION \$ep-20-08 12:53

MATERIAL SAFETY DATA SHEET

COASTALGUARD 50 ANTIFREEZE/COOLANT (REPROCESSED)

THRESHOLD LIMIT VALUE.... 50 PPM BASED ON ETHYLENE GLYCOL

ROUTES OF ENTRY

INHALATION?

IRRITANT, POSSIBLY Not expected to

NARCOTIC

SKIN?

cause significant

health hazard

INGESTION?

Ingestion of very

large amounts

could

cause serious injury, or even

death.

HEALTH HAZARDS..... ACUTE: Vapors may be irritating to eyes, or mucous membranes. Avoid inhalation or eye contact. CHRONIC: Kidney and liver damage possible. May cause

reproductive disorders.

CARCINOGENICITY NO

NTP? NO

IARC MONOGRAPHS?

OSHA REGULATEI

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact. Symptoms of overexposure: headache, fatigue, nausea,

irritation of respiratory tract, dizziness, staggering gait, confusion, unconsciousness.

FIRST AID PROCEDURES.... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medica. attention. Wash clothing before reuse. 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. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable

CONDITIONS TO AVOID ..... Heat may cause internal pressure which could rupture

container.

incompatible materials... Oxidizing materials & oxidizers

DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide

HAZARDOUS POLYMERIZATION. Will not occur

POLYMERIZATION AVOID.... None

SECTION VII - SPILL OR LEAK PROCEDURE 

-2-

MATERIAL SAFETY DATA SHEET

COASTALGUARD 50 ANTIFREEZE/COOLANT (REPROCESSED)

POR SPILL..... In case of spillage, absorb with inert material and

dispose of in accordance with applicable regulations

WASTE DISPOSAL METHOD.... Industrial Waste. Follow Pederal, State and Local

laws.

SECTION VIII - SPECIAL PROTECTION

는 선생님님도 한국 선도로 전혀 보고 있는 것 같은 한국 전쟁 수 있는 지원 전쟁 등 하고 있는 지원 전쟁 등 전쟁 전쟁 등 하고 있는 지원 등 자연하고 있다고 있다고 있다. 그 전쟁 등 전쟁 등 기 RESPIRATORY PROTECTION... When ventilation is not adequate, use of NIOSH

approved organic vapor/acid gas cartridge respirator

is recommended.

VENTILATION..... Required in closed areas

MECHANICAL EXHAUST..... Required in closed areas

LOCAL EXHAUST..... Desired

PROTECTIVE GLOVES..... Wear impervious gloves
EYB PROTECTION...... Use chemical goggles or full face shield.

OTHER PROTECTIVE

EQUIPMENT..... Chemical type apron recommended

#### SECTION IX - SPECIAL MANDLING

ANDLING AND STORAGE.... Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from

heat. Clean up leaks immediately to prevent soil or

water contamination.

PRECAUTIONARY MEASURES... Avoid contact with skin, eyes, and clothing. After

handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid

action shown in Section V. Use with adequate

ventilation. HAZARD CLASS..... Drums - NOT REGULATED Bulk - Class 9

DOT SHIPPING NAME..... Drums - NOT REGULATED

Bulk - Other regulated substances, liquid, n.o.s.

(ethylene glycol)

REPORTABLE QUANTITY (RQ). 10,000 pounds

UN NUMBER..... None

NA #..... Drums - None; Bulk - NA3082

#### SECTION X - REGULATORY

Fra Acute..... YES

4 CHRONIC..... YES

A IGNITABILITY...... NO

...A REACTIVITY..... NO

Sep-20-06 (2:54 From-Universal Compression

#### MATERIAL SAFETY DATA SHEET

#### COASTALGUARD 50 ANTIFREEZE/COOLANT (REPROCESSED)

PA SUDDEN RELEASE OF RESURE.

ERCLA RQ VALUE..... 10,000 pounds for ethylene glycol

ECTION 313..... YES, ETHYLENE GLYCOL 107-21-1 50% (1/1/87)

ipa Hazard Waste #..... None

I.RANAIR..... Yes, Section 111 Volatile Organic Compounds & Section

112 Statutory Air Pollutants (1990 Amendments)

TRAN WATER..... No

**COT NOTES N/A - not applicable N/D - no data available < - means less than > - means greater than App. - approximate Est. - estimated

PREPARED BY:..... David Trahan, C.F.T. - 318-898-0001

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE SPORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

Diaries I 1625 N. Hench Fn., Hobbs, NM 88249 District.II 1301 W. Grand Avenue, Autolia, NM 88218 District.II 1000 Riv Hurars Road, Artee, NM 87410 12, de 13, 1225 S. Francis, Dr., Santa Fe, NM 87505

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fc, NM 87505 Form C-138 exised Stack 17, 1999

Sobrest Original Plus I Copto Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 1. RCRA Exempt: [ Non-Exempt: 🗵 BP America Production Co Verbal Approval Received: No: 🔲 5. Originating Site: Alva Short GV B # 1 6. Transporter: 2. Management Facility Destination: AFI Landfarm L.L.C. 3. Address of Facility Operator: JFJ Landfarm Clo. Industrial Ecosystems Inc NM P.O. Box 2043 Farmington, NM 87499 7. Location of Material (Street Address or ULSTR) S-18, T-33N, R-09W 9. Circle One: A. All requests for approval to accept diffield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. 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: 2/Each 50 lb. bags of Sodium Carbonate (Soda Ash), weathered open & hardened from rainwater. Listed as EPA Non-Hazardons Waste. -MSDS attached. TITLE: Operation Manager DATE: 9/28/2006 TELEPHONE NO. (505) 632-1782 TYPE OR PRINT NAME: Joel Owens E-MAIL ADDRESS: itowens@industrialecosystems.com (This space for State Use TITLE: ENVIRO - SIZE APPROVED BY: TITLE FROMES ESSE APPROVED BY: 7 SEP 7090 OCT 11 4008



Od Conservation Division 1220 S. St. Francis Drive Santa Fa, NM 87505

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
George
Betty Rivera
Cabinet Survers

Lari Wrotenbery
Director
Oil Conservation Division

#### CERTIFICATE OF WASTE STATUS

3. Originating Site (name):  ALM SHORT GV B *1  SEA NAME SECTION - RAW  LA FLANA COUNTY, COLUMNIO  STEAD IN OUT ORIGINATING SITES AS APPROPRIATE  A Source and Description of Waste  2. CALL SO F BAS SOURM CARDINATE (SOUR ACIL), BASS WENTHERED, OPEN Y PARIEMED WITH RAW WATER. LISTED AS EPA NOW HARMOND LUTATE.	Generator Name and Address SP AMERICA Paols, CO., SEO AMERICA RO., WAAGO, CO. S1301 T201247- 44800	2 Descination Name: JFJ LAMBFARM GO IND. Economic IN TBI CR 2150 ARISC, NM BING
2 COS SUF ENS SONIAN CARDINAY (Some and) Co.	LENA SHORF GO B #1	58/4 NW/4 SEC. 18 - TEEN - RAW
	FACE SU " BASS SOBIUM CARBINE	re (Soun Ash), Bass wenthered oven a hardened with M. Hardiddo Lugare.

__representative for t

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

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

T SOLID WASTE
4. Generator: BP America Production Co.
5. Originating Site: Alva Short GV B # 1
6. Transporter:
8. State: NM
·
y a certification of waste from the Generator; necessary chemical analysis to PROVE the lassified hazardous by listing or testing will be ose consigned for transport.
(Soda Ash), weathered opein & hardened from the end of the haul)
ons Manager DATE: <u>9/28/2006</u>
DATE:
DITTE:

DUPLICATE





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Betty Rivera

Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

#### CERTIFICATE OF WASTE STATUS

		·
	Generator Name and Address	2. Destination Name:
	BP AMERICA PROD. CO.	JFJ LANDFARM C/O IND. ECOSYSTEM INC.
	380 AIRPORT RD.	#81 CR 3150
	DRANGO, CO 81301	AZTEC, NM 87410
	(970) 247 - 6800	
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	ALVA SHORT GU B #1	SE/4 NW/4 SEC. 18 - T33N - R9W
Ì		LA FLATA COUNTY, COLORADO
	attach list of originating sites as appropriate	
Ì	4. Source and Description of Waste	
	2 EACH 50 # BAGS SODIUM CARBONATE (SOI	ASH), BAGS WEATHERED OPEN & HARDENED WITH
Ì	RAW WATER. LISTED AS EPA NON-HAZ	ventus Wastf
ļ		
Į		
I,	JEFF BLA66 Print Name	representative for :
	Print Name	•
	PD A D. CA OLIV	<b>\</b>
	BY-AMERICA TRODUCTION COMPANY	do hereby certify that, according to the Resource
		tion Agency's July, 1988, regulatory determination, the above
aescribe	ed waste is: (Check appropriate classification)	
FY	EMPT oilfield waste X NON-EXE	MPT oilfield waste which is non-hazardous by characteristic
	analysis or	by product identification
	unity of or	by product rushimounous
and that	nothing has been added to the exempt or non-exempt non -	hazardous waste defined above.
For NO.	N-EXEMPT waste the following documentation is attached	
		Other (description
	RCRA Hazardous Waste Analysis	
	Chain of Custody	
TO 1 2	11 11 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		Occurring Radioactive Material (NORM) pursuant to 20
VIVIAC	3.1 subpart 1403.C and D.	
	O VI ASILIAN A NA ROLLAND	
rame (	Original Signature): Left Elcz 4	•
Ťitle:	AGENT !	
ritie:	I I O D N J	-
Date:	SEPT 27, 2006	
		- 
		- W



### OCI CHEMICAL CORPORATION

SEARCH GO

ABOUT OCI PRODUCTS HEALTH, SAFETY & ENVIRONMENT SALES & SUPPORT CUSTOMER e-ZONE





OUR PRODUCTS

**Specification Sheets** 

The specification sheet below is provided for your reference. To access specification sheets for other OCI soda ash products, click one of the links at left. To download PDF, right-click on icon and select the "Save..." option

## PRODUCT DATA



To download PDF, right-click on icon and select "Save..." option.

#### ▶ Technical Grade

High Purity
Dense Grade

## SODA ASH (SODIUM CARBONATE, ANHYDROUS) <u>TECHNICAL GRADE</u>

**FORMULA** 

Na₂CO₃

**NOMENCLATURE** 

Sodium Carbonate, Anhydrous

Soda Ash

**CAS NUMBER** 

497-19-8

**CAS INDEX NAME** 

Carbonic Acid Disodium Salt

GRADE

Technical

MOLECULAR WEIGHT

IR 106.0

**DESCRIPTION** 

Sodium carbonate, anhydrous, is a white odorless, granular material, free of visible

contamination. Meets federal

specificationO-S-571 G, Type II (Light) and Type III (Dense). Meets AWWA Std. B201-92. Meets chemical requirements of ASTM Specification D458-79. It has been certified by NSF International to ANSI/NSF Std. 60-1988 for use in the treatment of drinking

water at a maximum dosage of 100mg/L.

CONTAINERS

50- and 100-lb. net weight paper bags

Jumbo hopper rail cars

Bulk trucks Ocean vessels Super Sacks

#### **SPECIFICATIONS:**

#### DENSE:

PROPERTY	SPECIFICATION	TYPICAL
Sodium Carbonate (% Na ₂ CO ₃ )	99.6 minimum	99.90
Na ₂ CO ₃ )		

Sodium Oxide (%Na ₂ O)	58.30 minumum	58.50
Sodium Sulfate (% Na ₂ SO ₄ )	0.15 maximum	0.04
Sodium Chloride (%NaCl)	0.08 maximum	0.01
Water Insolubles, %	0.05 maximum	0.02
Bulk Density, Lbs/ft ³	56.2-65.0	60.00
Sieving, % (Cumulative): On 20 mesh On 30 mesh On 100 mesh Through 200 mesh	0.4 maximum 5.0 maximum 85.0 minimum 2.0 maximum	0.20 1.90 96.20 0.70

### <u>LITE®</u>:

PROPERTY	SPECIFICATION	TYPICAL
Sodium Carbonate (% Na ₂ CO ₃ )	99.2 minimum	99.80
Sodium Oxide (%Na ₂ O)	58.1 minumum	58.40
Sodium Sulfate (% Na ₂ SO ₄ )	0.15 maximum	0.085
Sodium Chloride (%NaCl)	0.09 maximum	0.03
Water Insolubles, %	0.05 maximum	0.03
Bulk Density, Lbs/ft ³	44.0-54.0	48.00
Sieving, % (Cumulative): On 20 mesh On 30 mesh On 100 mesh Through 200 mesh	5.0 maximum 10.0 maximum 80.0 minimum 5.0 maximum	1.50 4.00 89.70 1.40

#### Some common uses for sodium carbonate:

INDUSTRY	APPLICATIONS
Agriculture	Water pond sealant
Ceramics and Glass	In the manufacture of ceramics and glass
Chemical	In the manufature of sodium compounds; in photographic materials; in the neutralization of acids, for pH adjustment; for stack gas scrubbing
Metallurgy	In aluminum production; in metal processing
Petroleum	In petroleum refining; in drilling muds
Pulp and Paper	In the manufacture of pulp and paper
Soap and Synthetic	In the manufacture of soaps, cleaners, and

Detergents	detergents; for saponification of fatty acids
Textiles	In the manufacture of textiles; in cotton/fabric bleaching
Water and Waste Treatment	pH and alkalinity control, softener (recarbonation), ion exchange regeneration
Gas Treatment	Flue gas scrubbing for removal of SO ₃



## OCI CHEMICAL CORPORATION

1/99

Two Corporate Drive, PO Box 902 Shelton, CT 06484 (203) 225-3100 All information is offered in good faith, without guarantee or obligation for the accuracy or sufficiency thereof, or the results obtained, and is accepted at user's risk. Nothing herein shall be construed as a warranty for a particular use or a recommendation for any use which may infringe or grant a license for any patent, trademark, or tradename.

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Material Safety Data Sheet Date Prepared: 5/23/01 Supersedes Date: 1/29/98

#### 1. CHEMICAL PRODUCT AND COMPANY DESCRIPTION

OCI Chemical Corp. Two Corporate Drive Shelton, CT 06484

**Emergency Phone Numbers:** 

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC (800-424-9300) IN THE UNITED STATES OR OCI (1-203-225-3100 or 1-888-278-1657); IN CANADA CONTACT CANUTEC (613) 996-6666.

#### For Product Information:

\(800) 865-1774

Chemical Name or Synonym:

DISODIUM CARBONATE; SODA ASH; CARBONIC ACID, DISODIUM SALT

Molecular Formula:

Na₂CO₃

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number	OSHA Hazard	Percentage
SODIUM CARBONATE	497-19-8	Υ	100
	100		

#### 3. HAZARDS IDENTIFICATION

#### A. Physical Appearance and Odor:

White granules solid, odorless

Warning Statements:

WARNING: CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION

B. POTENTIAL HEALTH EFFECTS

End of Page 1



Material Safety Data Sheet Date Prepared: 5/23/01 Supersedes Date: 1/29/98

#### 3. HAZARDS IDENTIFICATION (Continued)

#### Acute Eye:

Causes irritation.

#### Acute Skin:

May cause redness, swelling.

#### Acute Inhalation:

May cause upper respiratory tract irritation, lung irritation.

#### **Acute Ingestion:**

Low acute oral toxicity. May cause nausea, vomiting, diarrhea, irritation, corrosion.

#### Chronic Effects:

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

#### 4. FIRST AID MEASURES

#### FIRST AID MEASURES FOR ACCIDENTAL:

#### Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention.

#### Skin Exposure:

In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

#### Inhalation:

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek immediate medical attention.

OCI CHEMICAL CORP.

Material Safety Data Sheet Date Prepared: 5/23/01 Supersedes Date: 1/29/98

# 4. FIRST AID MEASURES (Continued)

#### Ingestion:

If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

#### MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

#### **NOTES TO PHYSICIAN:**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

#### 5. FIRE FIGHTING MEASURES

#### FIRE HAZARD DATA:

#### Flash Point:

Not Applicable

#### Extinguishing Media:

Not combustible. Use extinguishing method suitable for surrounding fire.

#### **Special Fire Fighting Procedures:**

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

#### Unusual Fire and Explosion Hazards:

Not combustible.

# Hazardous Decomposition Materials (Under Fire Conditions)

Carbon dioxide

End of Page 3

CCi	OCT	CHEMICAL	CORP.
	OCI	CUEMICAL	CUKP.

Material Safety Data Sheet Date Prepared: 5/23/01 Supersedes Date: 1/29/98

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Evacuation Procedures and Safety:**

Ventilate closed spaces before entering. Wear appropriate protective gear for situation. See Personal Protection information in Section 8.

#### Containment of Spill:

Follow procedure described below under Cleanup and Disposal of Spill.

#### Cleanup and Disposal of Spill:

Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Collect washings for disposal. Decontaminate tools and equipment following cleanup. Clean up residual material by washing area with water. Avoid creation of dusty conditions.

#### **Environmental and Regulatory Reporting:**

Do not flush to drain. If spilled on the ground, the affected area should be scraped clean placed in an appropriate container for disposal. Prevent material form entering public sewer system or any waterways. Large spills should be handled according to a predetermined plan. For assistance in developing a plan contact with the Technical Service Department using the Product Information phone number in Section 1.

#### 7. HANDLING AND STORAGE

#### Minimum/Maximum Storage Temperatures:

Not Available

#### Handling

Do not get in eyes. Do not breathe dusts. Avoid direct or prolonged contact with skin.

#### Storage

Store in an area that is cool, dry, well-ventilated

End of Page 4



Material Safety Data Sheet Date Prepared: 5/23/01 Supersedes Date: 1/29/98

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Introductory Remarks:

8.

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

#### **Exposure Guidelines:**

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. The following limits (AGGIH, OSHA and other) apply to this material, where, if indicated, S=skin and C=ceiling limit:

# PARTICULATES NOT OTHERWISE REGULATED RESPIRABLE FRACTION

Notes

TWA

STEL

OSHA

5 mg/cum

#### **Engineering Controls:**

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures.

#### **Respiratory Protection:**

When respirators re required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by OSHA / ANSI: Airpurifying (half-mask / full-face) respirator with cartridges / canister approved for use against dusts, mists and fumes.

OCI CHEMICAL CORP.

End of Page 5

Material Safety Data Sheet Date Prepared: 5/23/01 Supersedes Date: 1/29/98

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

#### Eye / Face Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

#### Skin Protection:

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

#### **Work Practice Controls:**

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

#### Physical Appearance:

White granules solid.

#### Odor:

Odorless



End of Page 6

Material Safety Data Sheet

Date Prepared: 5/23/01

3/01 Supe

Supersedes Date:

1/29/98

#### 9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)

#### pH:

11.3 at 1 wt / wt %

# Specific Gravity:

2.53 at 20°C (68 F)

#### Water Solubility:

Soluble

7 Wt / Wt % at 25°C (77 F)

#### Melting Point Range:

851°C (1564 F)

# **Boiling Point Range:**

Not Available

#### Vapor Density:

Not Available

#### Molecular Weight:

105.99

### 10. STABILITY AND REACTIVITY

#### Chemical Stability:

This material is stable under normal handling and storage conditions described in Section 7.

#### Conditions To Be Avoided:

Extreme Heat

#### Materials / Chemicals To Be Avoided:

Aluminum

Fluorine

Humid Air

Moisture

Sulfuric Acid

Acids

Magnesium

Phosphorus Pentoxide

End of Page 7



Material Safety Data Sheet Date Prepared: 5/23/01 Supersedes Date: 1/29/98

#### 10. STABILITY AND REACTIVITY (Continued)

#### **Decomposition Temperature Range:**

400°C (752 F)

The Following Hazardous Decomposition Products Might Be Expected:

**Decomposition Type: Thermal** 

Carbon Dioxide

Hazardous Polymerization Will Not Occur.

Avoid The Following To Inhibit Hazardous Polymerization:

Not Applicable

#### 11. TOXICOLOGICAL INFORMATION

#### Acute Eve Irritation:

# Toxicological Information and Interpretation

Eye - Eye Irritation, 50 mg, Rabbit. Severely Irritating.

#### Acute Skin Irritation:

# Toxicological Information and Interpretation

Skin - Skin Irritation, Rabbit. Mildly Irritating.

#### **Acute Dermal Toxicity:**

No Test Data Found For Product.

#### Acute Respiratory Irritation:

No Test Data Found For Product.

#### **Acute Inhalation Toxicity:**

#### Toxicological Information and Interpretation

LC50 - Lethal Concentration. 50% Of Test Species, 2300 mg/cu m/2hr, rat.

#### **Acute Oral Toxicity:**

# Toxicological Information and Interpretation

LD50 - Lethal Dose 50% Of Test Species, 4090 mg/kg, rat.

End of Page 8



Material Safety Data Sheet Date Prepared: 5/23/01 Supersedes Date: 1/29/98

#### 11. TOXICOLOGICAL INFORMATION (Continued)

#### **Chronic Toxicity:**

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

No additional test data found for product.

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicological Information:**

No data found for product.

#### Chemical Fate Information:

No data found for product.

#### 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Method:

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different form federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

### Container Handling and Disposal:

Rinse containers before disposal.

EPA Hazardous Waste - NO

#### 14. TRANSPORTATON INFORMATION

#### **Transportation Status:**

US Department of Transportation

#### **DOT Shipping Name:**

NOT REGULATED

End of Page 9



Material Safety Data Sheet Date Prepared: 5/23/01 Supersedes Date: 1/29/98

#### 15. REGULATORY INFORMATION

#### FEDERAL REGULATIONS

#### TSCA Inventory Status:

All ingredients of this product are listed on the TSCA Inventory.

#### SARA Title III Hazard Classes:

Fire Hazard - NO
Reactive Hazard - NO
Release of Pressure - NO
Acute Health Hazard - YES
Chronic Health Hazard - NO

#### **STATE REGULATIONS:**

This product does not contain any components that are regulated under California Proposition 65.

#### 16. OTHER INFORMATION

#### National Fire Protection Association Hazard Ratings - NFPA(R):

- 2 Health Hazard Rating - Moderate
- 0 Flammability Rating - Minimal
- 0 Reactivity Rating - Minimal

#### National Paint & Coating Hazardous Materials Identification System - HMIS(R):

- 2 Health Hazard Rating - Moderate
- 0 Flammability Rating - Minimal
- 0 Reactivity Rating - Minimal

Certified to ANSI/NSF 60 – Soda Ash Dense Bulk: This product is certified ANSI/NSF 60 when used in treatment of drinking water at maximum dosage of 100 mg/L.

#### Reason for Revisions:

Change and / or addition made to Section 1.

End of Page 10
OCI CHEMICAL CORP.

Material Safety Data Sheet Date Prepared: 5/23/01 Supersedes Date: 1/29/98

# 16. OTHER INFORMATION (Continued)

# **Key Legend Information:**

NAV

- Not Available

NAP

- Not Applicable

ND

- Not Determined

ACGIH

- American Conference of Governmental Industrial Hygienists

OSHA

- Occupational Safety and Health Administration

TLV

- Threshold Limit Value

PEL

- Permissible Exposure Limit

TWA STEL - Time Weighted Average

NTP

Short Term Exposure LimitNational Toxicology Program

IARC

- International Agency for Research on Cancer

#### Disclaimer:

The information herein is given in good faith but no warranty, expressed or implied, is made.

District 1
1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Road, Aztec, NM 87410
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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 March 17, 1999

Submit Original Plus I Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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Oil Conservation Division
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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

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 March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ATTROVAL TO ACCE						
1. RCRA Exempt: Non-Exempt: 🖂	4. Generator: 1. Key Energy Services, Inc.					
Verbal Approval Received: Yes No: D Received yer box 9/7/86 from Brandon fowell	5. Originating Site: Peoples Energy: Gardner # 13					
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:					
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499	8. State: NM					
7. Location of Material (Street Address or ULSTR) S-35, T-30N, R-14W						
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  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  All transporters must certify the wastes delivered are only the BRIEF DESCRIPTION OF MATERIAL: 2% KCL water w/trace amount of Hydro (empty) transport that had 7.5% Hydrochloric acid and an unknown amount of the location. —MSDS and Analyticals to measure Total Cyanide and Total Sulfide.  Estimated Volumebbls Known Volume (to be entered by the operator at the state of the location is a second and the location of the location.	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be use consigned for transport.  Ochloric acid. Water had backflowed into an fluid overflowed form the transport onto					
SIGNATURE Waste Management Facility Authorized Agent  TITLE: Operation	ns Manager DATE: <u>9/27/2006</u>					
TYPE OR PRINT NAME: <u>Joel Owens</u> TELEPHONE NO. <u>(505) 632-1782</u>						
E-MAIL ADDRESS: jtowens@industrialecosystems.com						
(This space for State Use)  APPROVED BY: BP TITLE:	DATE					
APPROVED BY: TITLE:	DATE:					



5055643524



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Joanne Prukop Cabinet Secretary

Director Oil Conservation Division

# **CERTIFICATE OF WASTE STATUS**

	1. Generator Name and Address	2. Destination Name:
	Key Energy Services, Inc.	J.F.J. Landfarm C/o Industrial Ecosystems Inc.
	Pressure Pumping Services	#81 CR 3250
	708 S. Tucker	Azicc, NM 87410
	Farmington, NM 87401	·
	3. Originating Site (name):	cation of the Waste (Street address &/or ULSTR):
	Peoples Energy; Well Name Gardner #13 San Juan County	,
		S-35, T-30N, R-14W
	attach list of originating sites as appropriate	, 5 ,
	4. Source and Description of Waste	
	2% KCL water with a trace amount of Hydrochloric acid. Water	er had back flowed into an (empty) transport that had 7.5%
	Hydrochloric acid and an unknown amount of the fluid overflo	
		*
I.	Craig Fortney, District Safety Coordinator, r	epresentative for:
<u>-</u>	Print Name	
	A A SAN A ANDRON	
	Key Energy Services, Inc. Pressure Pumping Services d	o hereby certify that, according to the Resource Conservation
and Re	covery Act (RCRA) and Environmental Protection Agency's July	1988 regulatory determination, the showe described waste is:
(Checi	appropriate classification)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(01.00.		
,	EXEMPT oilfield waste X NON-EXEM	PT oilfield waste which is non-hazardous by characteristic
		SPANISOF ARABIT TOPOTOMS
		product identification
		Droduct Identification
and the		
and the	at nothing has been added to the exempt or non-exempt non -haza	
	at nothing has been added to the exempt or non-exempt non -haza	ardous waste defined above.
	at nothing has been added to the exempt or non-exempt non -haze	eck appropriate items):
	nt nothing has been added to the exempt or non-exempt non -haze  ON-EXEMPT waste the following documentation is attached (che  X MSDS Information Oth	ardous waste defined above.
	ON-EXEMPT waste the following documentation is attached (check MSDS Information Other RCRA Hazardous Waste Analysis	eck appropriato items):
	nt nothing has been added to the exempt or non-exempt non -haze  ON-EXEMPT waste the following documentation is attached (che  X MSDS Information Oth	eck appropriato items):
For NO	at nothing has been added to the exempt or non-exempt non -haze  ON-EXEMPT waste the following documentation is attached (che  X MSDS InformationOth  RCRA Hazardous Waste Analysis Chain of Custody	eck appropriate items): er (description
For NO	on nothing has been added to the exempt or non-exempt non hazardon.  DN-EXEMPT waste the following documentation is attached (chean MSDS Information Othean RCRA Hazardous Waste Analysis Chain of Custody  Taste is in compliance with Regulated Levels of Naturally Occupations.	eck appropriate items): er (description
For NO	at nothing has been added to the exempt or non-exempt non -haze  ON-EXEMPT waste the following documentation is attached (che  X MSDS InformationOth  RCRA Hazardous Waste Analysis Chain of Custody	eck appropriate items): er (description
For NO	on nothing has been added to the exempt or non-exempt non hazardon.  DN-EXEMPT waste the following documentation is attached (chean MSDS Information Othean RCRA Hazardous Waste Analysis Chain of Custody  Taste is in compliance with Regulated Levels of Naturally Occupations.	eck appropriate items): er (description
For NO	ON-EXEMPT waste the following documentation is attached (ch. X MSDS InformationOtherOtherOtherOtherChain of Custody  aste is in compliance with Regulated Levels of Naturally Occ. 23.1 subpart 1403.C and D.	eck appropriate items): er (description
For NO	on nothing has been added to the exempt or non-exempt non hazardon.  DN-EXEMPT waste the following documentation is attached (chean MSDS Information Othean RCRA Hazardous Waste Analysis Chain of Custody  Taste is in compliance with Regulated Levels of Naturally Occupations.	eck appropriate items): er (description
For NO This w NMAC	ON-EXEMPT waste the following documentation is attached (ch. X MSDS Information Other RCRA Hazardous Waste Analysis Chain of Custody  aste is in compliance with Regulated Levels of Naturally Occ. 3.1 subpart 1403.C and D.  (Original Signature):	eck appropriate items): er (description  urring Radioactive Material (NORM) pursuant to 20
For NO	ON-EXEMPT waste the following documentation is attached (check MSDS Information Other RCRA Hazardous Waste Analysis Chain of Custody  aste is in compliance with Regulated Levels of Naturally Occurs 3.1 subpart 1403.C and D.  (Original Signature):	eck appropriate items): er (description  urring Radioactive Material (NORM) pursuant to 20
For NO This w NMAC Name Citle:	ON-EXEMPT waste the following documentation is attached (ch. X MSDS Information Other RCRA Hazardous Waste Analysis Chain of Custody  aste is in compliance with Regulated Levels of Naturally Occ. 3.1 subpart 1403.C and D.  (Original Signature):	eck appropriate items): er (description  urring Radioactive Material (NORM) pursuant to 20
For NO This w NMAC	ON-EXEMPT waste the following documentation is attached (ch. X MSDS Information Other RCRA Hazardous Waste Analysis Chain of Custody  aste is in compliance with Regulated Levels of Naturally Occ. 3.1 subpart 1403.C and D.  (Original Signature):	eck appropriate items): er (description  urring Radioactive Material (NORM) pursuant to 20
For NO This w NMAC Name Citle:	ON-EXEMPT waste the following documentation is attached (ch. X MSDS Information Other RCRA Hazardous Waste Analysis Chain of Custody  aste is in compliance with Regulated Levels of Naturally Occ. 3.1 subpart 1403.C and D.  (Original Signature):	eck appropriate items): er (description  urring Radioactive Material (NORM) pursuant to 20
For NO This w NMAC Name Citle:	ON-EXEMPT waste the following documentation is attached (ch. X MSDS Information Other RCRA Hazardous Waste Analysis Chain of Custody  aste is in compliance with Regulated Levels of Naturally Occ. 3.1 subpart 1403.C and D.  (Original Signature):	eck appropriate items): er (description  urring Radioactive Material (NORM) pursuant to 20

Oil Conservation Division * 1000 Rio Brazos Road * Aztec, New Mexico 87410 Phone: (505) 334-6178 * Fax (505) 334-6170 * http://www.emmrd.state.mm.us

5055643524



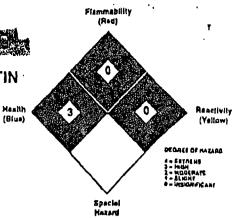


# MATERIAL SAFETY DATA BULLETIN

(CONFORMS TO CFR 1910, 1200g AMENDED)

# REAGENT CHEMICAL & RESEARCH INC.

124 River Road Middlesex, New Jersey 08846



NFPA Designation 704



FLASH POINT (Method Used N.A.		FLAMMABLE Non-flamm	LIMIT	· · · · · · · · · · · · · · · · · · ·	NGUISHING MEDIA				
VAPOR PRESSURE 50 - 60 mm Hg @ 20° C		ILITY (Water) y Soluble	ODOR % VOLATILE BY VOL. Sharp, Pungont, Irritant N.A.						
VAPOR DENSITY (AIR ≈1) ' N.A.		COLOR lightly Yellow		DENSITY 9.908 lb/gal	BOILING POINT 110° C/230° F				
PEARANCE (Solld, Liquid, Gas) Liquid @ 20° C. 1 atm	MOTEC	JLAR WEIGHT 36.5	FREEZ -53°	ING TEMP. C: -83° F	SPECIFIC GRAVITY 1.1600 - 1.1884				
		PHYSICA	L DATA						
Hydrogen Chloride		31,45 - 37,0	Ceiling-5.0 ppm						
COMPONENTS		%		THRESHOLD LIMIT VALU					
•		HAZARDOUS I	INGREDIENT	rs .					
TRADE NAME & Hydrochlorie Acid			CHEMICAL FAMILY Inorganic Acid						
CHEMICAL F					TE NUMBER 202				
PRODUCT CA 7647-0			Se	SARA TITLE ction 312 Ø Yes					
PRODUCT Hydrochloric Acid, 2		lume		bels Required .	RO 5000 lbs. Corrosive 3-0-0-X				
EMERGENCY RESPONSE ID# 1789, 0		K NUMBER	Hazard Packagi HM 181	UN/NA Identification - UN1789 Hazard Class - 8 Packaging Group - II HM 18! Poison? - NO					
EMERGENC 800-231-1807 800-424-9300 - (	- 24 HOUR '	)	TRANSPORTATION INFORMATION Proper Shipping Name - Hydrochloric Acid Hazard Class - Corrosive Liquid						

#### SPECIAL FIRE FIGHTING PROCEDURES, UNUSUAL FIRE OR EXPLOSION HAZARDS

Non-flammable, but Hydrochloric Acid reacts with all metals, except gold and platinum, with rapid evolution of Hydrogen which is flammable and explosive in air. Firefighters exposed to Hydrochloric Acid vapors should wear Scott Air-Pak or equivalent. Hydrogen Chloride vapors are extremely irrating to the respiratory tract and may cause breathing difficulty.

612 E. Murray Drive Farmington, NM 87499

Off: (505) 327-1072 FAX: (505) 327-1496

# iiná bá

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

iiná bá

Date: 19-Sep-06

CLIENT:

Souder, Miller & Associates

Project:

Key Energy

Lab Order:

0609008

**CASE NARRATIVE** 

Test America analyzed for Corrosivity (pH), Ignitability, and Reactivity as Total Cyanide and Total Sulfide. Their report is attached.

Note that the Reactive Cyanide and Reactive Sulfide methods are no longer recognized by the EPA. The sample was analyzed for Total Cyanide and Total Sulfide.

# Test/America

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client lina Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Attn Jeff Engel

Work Order:

NP10556

Project Name:

lina Ba, LTD

Project Number:

8009000

Received:

09/07/06 08:00

#### ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NP10556-01 (060900	8-001A - Soil) S	ampled: 0	9/06/06 13:15					
General Chemistry Parameters								
Cyanide	dи		mg/kg	2.00	1	09/15/06 15:50	SW846 9012A	6092639
Ignitability	>200		۴	80.0	ł	09/07/06 11:28	ASTM D4982B	6090992
Sulfide	ND		mg/kg	20.0	i	09/13/06 17:20	W846 9030B/903	6092088
pH	10.0	HII	pH Units	ΝA	1	09/19/06 14:35	SW846 9045C	6093247



2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client lina Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Attn Jeff Engel

Work Order:

NP10556

Project Name:

lina Ba, LTD

Project Number:

0609008

Received:

09/07/06 08:00

# PROJECT QUALITY CONTROL DATA

#### Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Fime
General Chemistry Parameters 6090992-BLK1 Ignitability	<60.0%		of:	6090992	6090992-B1.K1	
6092088-BLK1 Sulfide	<10.0		mg/kg	6092088	6092088-BLK1	09/±3/06 17:20
<b>6092639-BLK1</b> Cyanide	<0.840		mg/kg	6092639	6092639-BLK1	09/15/06 15:50
6093247-BLK1	<0.00	нті	pH Units	6093247	6093247-BLK1	09/19/06 14:35

# Test America

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client lina Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Attn Jeff Engel

Work Order:

NP10556

Project Name:

lina Ba, LTD

Project Number:

0609008

Received:

09/07/06 08:00

#### PROJECT QUALITY CONTROL DATA

#### Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	l, imit	Batch .	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters 6090992-DUP1 Ignitability	ИD	ND		۰ֈ:		200	6090992	NP10448-01	09/07/06 11:28
6092088-DUP1 Sulfide	מא	ND		mg/kg		41	6092088	NP11134-01	09/13/06 17:20
6092639-DUP1 Cyanide	CIN	ND		nrg/kg		50	6092639	NP10556-01	09/15/06 15:50
6093247-DUP1 pH	10.0	10.0	нті	pH Units	0	200	6093247	NP10556-01	09/19/06 14:35

ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client Iina Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Work Order:

NP10556

Project Name:

lina Ba, LTD

Project Number: Received:

0609008

Atm Jeff Engel 09/07/06 08:00

#### PROJECT QUALITY CONTROL DATA

#### Matrix Spike

Analyse	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
General Chemistry Parameters 6092088-MS1 Sulfide	ND	16.2		ug/mŁ	20.0	R1%	10 - 154	6092088	NP10556-01	09/13/06 17:20
6092639-MS1 Cyanide	0.00210	0.101		ug/mL	0.100	99%	8 - 176	6092639	NP10470-01	09/15/06 15:50



2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax G15-726-3404

Client Fina Ba. LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Attn Jeff Engel

Work Order:

NPI0556

Project Name:

lina Ba, LTD

Project Number: 0609008

Received:

09/07/06 08:00

#### PROJECT QUALITY CONTROL DATA

#### Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rcc.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters 6092088-MSD1 Sulfide	ND	16.2		ug/mL	20.0	81%	10 - 154	0	41	6092088	NP10556-01	09/13/06 17:20
6092639-MSD1 Cyanide	0.00210	0.0737		ng/mL	0.100	72%	8 - 176	31	50	6092639	NP10470-01	09/15/06 15:50



2950 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client Jina Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Attn Jeff Engel

Work Order:

NP10556

Project Name:

lina Ba, LTD 0609008

Project Number: Received:

09/07/06 08:00

#### DATA QUALIFIERS AND DEFINITIONS

>200

>200

HTI

The holding time for this test is immediate. The laboratory measurement, therefore, may not be suitable for compliance purposes.

METHOD MODIFICATION NOTES

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

Form C-138 Revised March 17, 1999

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 NOV n2 word

Sit Constitution Wide.

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR AFTROVAL TO ACCE.									
1. RCRA Exempt: Non-Exempt: 🖂	4. Generator: BP America								
Verbal Approval Received: Yes \ No: \	5. Originating Site: State Gas Com AA 1								
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:								
3. Address of Facility Operator:  JFJ Landfarm  C/o. Industrial Ecosystems Inc.  P.O. Box 2043  Farmington, NM 87499	8. State: NM								
7. Location of Material (Street Address or ULSTR) UL-K, S-36, T-30, R-08									
9. Circle One:  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: contaminated soil around pump jack (lube oil from engine)-RCRA 8 Attached  Estimated Volume									
SIGNATURE TITLE: Operations Manager DATE: 10/17/06  Waste Management Facility Authorized Agent									
TYPE OR PRINT NAME: <u>Joel Owens</u> TELEPHONE NO. (505) 632-1782  E-MAIL ADDRESS: joel.owens@industrialecosystems.com									
APPROVED BY: TITLE FITTE	15 BATE 0/9/06,								

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

APPROVED BY:

APPROVED BY:

# 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 March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 4. Generator: 1. RCRA Exempt: Non-Exempt: 🛛 **BP** America Verbal Approval Received: Yes 🕅 No: 5. Originating Site: Verbal Given By Brandon Powell State Gas Com AA 1 6. Transporter: 2. Management Facility Destination: JFJ Landfarm L.L.C. 3. Address of Facility Operator: JFJ Landfarm 8. State: C/o. Industrial Ecosystems Inc. NM P.O. Box 2043 Farmington, NM 87499 7. Location of Material (Street Address or ULSTR) UL-K, S-36, T-30, R-08 9. Circle One: 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: contaminated soil around pump jack (lube oil from engine)-RCRA 8 Attached cy Known Volume (to be entered by the operator at the end of the haul) Estimated Volume TITLE: Operations Manager DATE: 10/17/06 **SIGNATURE** Waste Management Facility Authorized Agent TYPE OR PRINT NAME: Joel Owens TELEPHONE NO. (505) 632-1782 E-MAIL ADDRESS: joel.owens@industrialecosystems.com (This space for State Use)

TITLE

TITLE:

DATE

DATE:



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop

**Cabinet Secretary** 

Lori Wrotenbery
Director
Oil Conservation Division

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address BP America Production Company 200 Energy Court Farmington, NM 87401	2. Destination Name:  J.F.J. Landfarm C/O Industrial Ecosystems Inc.  #81 CR 3150  Aztec, NM 87410  Phone # 505-632-1782 Fax No# 505-334-1003
3. Originating Site (name):  State Gas Com AA 1	Location of the Waste (Street address &/or ULSTR):  UL- K S- 36 T- 30 R- 8 or attach list
Attach list of originating sites as appropriate  4. Source and Description of Waste  Contaminated Soil Alound for	Street Address:  ump TACK (Lube oil from engine)
1. Billy HERBAugh Print Name	representative for:
Agency's July, 1988, regulatory determination, the above describe	nservation and Recovery Act (RCRA) and Environmental Protection ed waste is: (Check appropriate classification)  N-EXEMPT oilfield waste which is non-hazardous by characteristic
Anal	lysis or by product identification and that nothing has been added to exempt or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentation is attach  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	ed (check appropriate items):Other (description
This waste is in compliance with Regulated Levels of Naturall NMAC 3.1 subpart 1403.C and D.	y Occurring Radioactive Material (NORM) pursuant to 20
Name (Original Signature): Billy Helica Special is t	Phone Contact: 486-0974  P.O#/Pay key No: ZBUDOILSEL
Date: 19/18/00	200611498

From-BP

Client:	Blegg / BP	Project#:	94034-010
Sample ID;	Soll Stackpile	Date Reported;	03-20-08
Laboratory Number;	36469	Date Sampled;	03-16-06
Chain of Custody:	15681	Data Raceived; Data Analyzed; Data Dignated; Analysis Needad;	03-17-06
Sample Matrix:	Soil		03-20-06
Preservative;	N/A		03-17-06
Condition:	Intect		Total Melals
Parameter	Concentration (mg/Kg)	Limit	P Regulatory Level (mg/Kg)

Perameter (mg/Kg)	(mg/Kg)	(mg/Kg)	
Arsenic 0.052	0.001	5.0	
Bartum 6.45	0,001	100	
Cadmium 0.009	0.001	1.0	
Chromium 0.205	0.001	5.0	
Lead 0.244	0.001	5.0	
Mercury	0.001	0.2	
Selenium	0.001	1.0	
Silver	0.001	5.0	

ND - Parameter not detected at the stated detection limit

Mathod 3050B, Acid Digestion of Sedimente, Sludges and Solia,

SW-846, USEPA, December 1996,

Method 80108, Analysis of Metals by Inductively Coupled Plasma Alpmic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR pari 261 subpart C

section 261.24, August 24, 1998.

State GC AA #1 5-Point Composite. Comments:

# CHAIN OF CUSTODY RECORD

BLAGE	BP		Project Location	GC AA "I				ANA	LYSIS / F/	RAMETE	RS	
1-C/50	55		Client No.	4-010	, S	Containers B RCRA					Re	mades
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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., Sunta Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

NOV On cold

Form C-138 Revised March 17, 1999

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Oil Conservation Division 1220 S. St. Francis Fran-Santa Fe, NM 87502 Submit Original Plus I Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: XX	4. Génerator: Aztéc Well Service
Verbal Approval Received: Yes XX No: 10/20/06	5. Originating Site: Forrest Road 314 and Hwy 64
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: Rosenbaum Construction
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499	8. State; NM
7. Location of Material (Street Address or ULSTR) Forrest Road 314 and Hwy 64.	
9. Circle One:  All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accompanied by inaterial is not hazardous and the Generalor's certification of origin. Nonwasterel approved  All transporters must certify the wastes delivered are only the BRIEF DESCRIPTION OF MATERIAL: Diesel from rig saddle tanks that contain Service Rig #545  Estimated Volume 48 cubic wards Known Volume: (to be entered by	necessary chemical analysis to PROVE the assified hazardous by listing or testing will be use consigned for transport.
SIGNATURE TITLE: Operation Waste Management Facility Authorized Agent	ms Manager DATE: 10/30/2006
TYPE OR PRINT NAME: <u>Joel Owens</u> TELEPHONE NO. <u>(505) 632-1782</u>	
E-MAIL ADDRESS: joel.owens@industrialecosystems.com	
(This space for State Use)  APPROVED BY  TITLE: Fig. 100/5	DATE: 10/30/06

District I 1625 N. French Dr., Hobbs, NM 88240 District III

District III

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 March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	I SOLID WASTE					
1. RCRA Exempt: Non-Exempt: XX	4. Generator: Aztec Well Service					
Verbal Approval Received: Yes XX No: 10/30/06	5. Originating Site: Forrest Road 314 and Hwy 64					
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: Rosenbaum Construction					
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499	8. State: NM					
7. Location of Material (Street Address or ULSTR) Forrest Road 314 and Hwy 64						
9. Circle One:  All requests for approval to accept oilfield exempt wastes will be accompanied by a 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 class approved  All transporters must certify the wastes delivered are only tho BRIEF DESCRIPTION OF MATERIAL: Diesel from rig saddle tanks that contam Service Rig #545  Estimated Volume 48 cubic yards Known Volume: (to be entered by	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be see consigned for transport.					
SIGNATURE TITLE: Operations Manager DATE: 10/30/2006  Waste Management Facility Authorized Agent						
TYPE OR PRINT NAME: <u>Joel Owens</u> TELEPHONE NO. (505) 632-1782						
E-MAIL ADDRESS: joel.owens@industrialecosystems.com						
(This space for State Use) APPROVED BY:  TITLE:	DATE:					
APPROVED BY: TITLE:	DATE:					





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** Josana Prukop Cabinet Secretary

Mark Fesmire Director Oil Conservation Division

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address	2. Destination Name:
Aztoc Well Service	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
900 S. Main Aztec, NM 87410	#81 CR 3150
7.216C, 1417 67410	Aztec, NM 87410 Phone # 505-632-1782 Fax No# 505-334-1003
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Forrest Road 314 and Hwy 64	
	UL- S- T- R- or attach list
	Street Address:
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Diesel from rig saddle tanks that contaminated soil due to	vehicle accident of Aztec Well Service Rig #545
<b>3</b>	Tomato and the first the first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first
I Igran Sandal semenananina fass Asses Wall Semina da handa an	
I, Jason Sandel, representative for: Aztoc Well Service, do hereby ce Resource Conservation and Recovery Act (RCRA) and Environment	officery that, according to the New Mexico Administrative Code,
above described waste is: (Check appropriate classification)	mail Procedure Agency 3 July, 1984, regulatory determination, the
, , , , , , , , , , , , , , , , , , , ,	
EXEMPT oilfield waste X NON-I	EXEMPT oilfield waste which is non-hazardous by characteristic
Analys	ils or by product identification and that nothing has been added to
The ex	empt or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentation is attached	(check appropriate items)
X_MSDS Information	Other (description
RCRA Hazardous Waste Analysis	, , , , , , , , , , , , , , , , , , , ,
Chain of Custody	
This waste is in compliance with Decules of Least of Manager	
This waste is in compliance with Regulated Levels of Naturally ( NMAC 3.1 subpart 1403.C and D.	Securring Radioactive Material (NORM) pursuant to 20
2 / 1	
Name (Original Signature):	Phone Contact: 505-334-6191
litle: Vice Prosident	P.O# / Pay key No:
Pate; 10/30/2006	
44.4 m bears	
	·
All A	
Oil Conservation Division / 1000 Ric	Brazos Road * Aztec, New Mexico 87410

Phone: (505) 334-6178 * Fax (505) 334-6170 * http://www.emnyd.state.nm.us

96%

Status: Final

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Date of Issue: 21-Feb-2006

# ConocoPhillips

# **MATERIAL SAFETY DATA SHEET**

#### No. 2 Diesel Fuel

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

No. 2 Diesel Fuel

Synonyms:

CARB Diesel TF3; CARB Diesel; CARB Diesel 10% CARB Diesel Ultra Low Sulfur - Dyed and Undyed EPA Low Sulfur Diesel Fuel - Dyed and Undyed EPA Off Road High Sulfur Diesel - Dyed High Sulfur Diesel Fuel; Low Sulfur Diesel Fuel

No. 2 Diesel Fuel Oil

No. 2 High Sulfur Diesel - Dyed

No. 2 Low Sulfur Diesel - Dyed; No. 2 Low Sulfur Diesel - Undyed

No. 2 Low Sulfur Distillate

No. 2 Ultra Low Sulfur Diesel - Dyed; No. 2 Ultra Low Sulfur Diesel - Undyed

Super Diesel Fuel; Super Diesel Fuel II-LS Virgin Diesel Fuel; No. 2 Distillate

Super Diesel Fuel; Super Diesel Fuel II-LS

Virgin Diesel Fuel

Intended Use:

Fuel

Chemical Family:

Petroleum Hydrocarbon

Responsible Party:

ConocoPhillips

600 N. Dairy Ashford

Houston, Texas 77079-1175

MSDS Information:

800-762-0942

MSDS@conocophillips.com

Customer Service:

800-527-5476

Technical information:

800-527-5476

#### **Emergency Overview**

# 24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident Call CHEMTREC:

North America: (800) 424-9300 Others: (703) 527-388" (collect)

California Poison Control System: (800) 356-3219

Health Hazards/Precautionary Measures: Causes skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use with ventilation adequate to keep exposure below recommended limits, if any. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Flammable liquid and vapor. Keep away from heat, sparks, flames, static electricity or other sources of ignition.

Appearance:

Straw colored to dyed red

Physical Form:

Llquid

Odor:

Diesel fuel

NFPA 704 Hazard Class:

Health:

1 (Slight)

Flammability:

2 (Moderate) 0 (Least)

Status: Final

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#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT		AGGILL	00114	NIGOLI	Osh a st
Component / CAS No:	Concentration (wt %)	ACGIH:	OSHA:	NIOSH:	Other:
Diesel Fuel No. 2 58476-34-6	100	100 mg/m³ TWA- SKIN	NE	NE	
Naphthalene 91-20-3	<1	10 ppm TWA 52 mg/m³ TWA 15 ppm STEL 79 mg/m³ STEL	10 ppm TWA 50 mg/m³ TWA	250 ppm IDLH	***

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM. NE=Not Established

#### 3. HAZARDS IDENTIFICATION

#### Potential Health Effects

Eye: Contact may cause mild eye imitation including stinging, watering, and redness.

Skin: Mild to moderate skin irritant. Contact may cause redness, itching, burning, and skin damage. Prolonged or repeated contact may cause drying and cracking of the skin, dermatitis (inflammation), burns, and severe skin damage. No harmful effects from skin absorption have been reported.

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the respiratory tract, irritation of the digestive tract, nausea, diarrhea, transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: There is inadequate information to evaluate the cancer hazard of this material. See Section 11 for information on the individual components, if any.

Target Organs: Inadequate evidence available for this material. See Section 11 for target-organ toxicity information of individual components, if any.

Developmental: inadequate data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders.

# 4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek medical attention.

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Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

ingestion (Swallowing): Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

#### 5. FIRE-FIGHTING MEASURES

#### Flammable Properties:

Flash Point

125-180°F / 52-82°C

Test Method:

Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

**OSHA Flammability Class:** 

Combustible liquid

LEL%:

0.3 10.0

UEL%:

10.0 6000 | nco

Autoignition Temperature:

500°F / 260°C

Unusual Fire & Explosion Hazards: This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk,

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

#### 6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof electrical equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

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#### 7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM 0-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices,

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

#### Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible imitation, and skin damage. Examples of approved materials are nitrile or Viton® (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

EyelFace: Approved eye protection to safeguard against potential eye contact, irritation, or Injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Status: Final

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Date of issue: 21-Feb-2006

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical Form:

Odor:

Odor Threshold:

:Ha

Vapor Pressure (mm Hg): Vapor Density (air≠1):

Bolling Point: Solubility in Water:

Partition Coefficient (n-octanol/water) (Kow):

Specific Gravity: Bulk Density:

Viscosity cSt @ 40°C; Percent Volatile;

Evaporation Rate (nBuAc=1):

Flash Point: Test Method:

LEL%: UEL%:

**Autoignition Temperature:** 

Straw colored to dyed red

Liquid Diesel fuel No data

Not applicable 0.40 > 3

300-690°F / 149-366°C

Negligible No data

0.81-0.88@ 60°F (15.6°C)

7.08 lbs/gal 1.7-4,1

Negligible@ ambient conditions

<1

125-180°F / 52-82°C

Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

0.3 10.0

500°F / 260°C

#### 10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure, Flammable liquid and vapor. Vapor can cause flash fire.

Conditions to Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Avoid contact with strong exidents such as liquid chlorine, concentrated exygen, sodium hypochlorite, calcium hypochlorite, etc.

Hazardous Decomposition Products: Combustion can yield carbon, nitrogen and sulfur oxides. The use of hydrocarbon fuel in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur and nitrogen, benzene and other hydrocarbons) and/or dangerously low oxygen levels. See Section 11 for additional information on hazards of engine exhaust. LARC has classified Diesel exhaust as probably carcinogenic in humans.

Hazardous Polymerization: Will not occur.

# 11. TOXICOLOGICAL INFORMATION

Chronic Data:

#### Diesel Fuel No. 2 (68476-34-6)

Carcinogenicity: Petroleum middle distillates have been shown to cause skin tumors in mice following repeated and prolonged skin contact. Follow-up studies have shown that these tumors are produced through a non-genotoxic mechanism associated with frequent cell damage and repair, and that they are not likely to cause tumors in the absence of prolonged skin irritation. Animal studies have also shown that washing the skin with soap and water can reduce the tumor response. Middle distillates with low polynuclear aromatic hydrocarbon content have not been identified as a carcinogen by NTP, IARC or OSHA.

Target Organs: Limited evidence of renal impairment has been noted from a few older case reports involving excessive exposure to diesel fuel No. 2. However, renal toxicity has not been demonstrated to be a consistent finding of diesel fuel exposure.

#### Naphthalene (91-20-3)

Carcinogenicity: Naphthalene has been evaluated in two year inhalation studies in both rats and mice. The National Toxicology Program (NTP) concluded that there is clear evidence of carcinogenicity in male and female rats based on increased incidences of respiratory epithelial adenomas and olfactory epithelial neuroblastomas of the nose. NTP found some evidence of carcinogenicity in female mice (alveolar adenomas) and no evidence of carcinogenicity in male mice. Naphthalene has been identified as a carcinogen by IARC and NTP.

Status: Final

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#### 14. TRANSPORT INFORMATION

Labels: Flammable

Placards/Marking (Bulk): Flammable/1202 Packaging - Non-Bulk: P001, LP01

EMS: F-E. S-E

#### **САОЛАТА**

UN/ID #: UN1202

Proper Shipping Name: Diesel fuel Hazard Class/Division: 3

Packing Group: III Subsidiary risk: None

Non-Bulk Package Marking: Diesel fuel, UN1202

Labels: Flammable

	LID. QIT.	Passenger Aircraft	Cargo Aircran Uniy	
Packaging Instruction #:	Y309	309	310	
Max. Net Qty. Per Package:	10 L	60 L	220 L	

#### 15. REGULATORY INFORMATION

#### U.S. Regulations:

# EPA SARA 311/312 (Title III Hazard Categories)

Acute Health:

Yes

Chronic Health:

No.

Fire Hazard:

Yes

Pressure Hazard:

Reactive Hazard:

No No

SARA - Section 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

Naphthalene.....91-20-3.....<1%

#### EPA (CERCLA) Reportable Quantity (in pounds):

EPA's Petroleum Exclusion applies to this material - (CERCLA 101(14)).

# CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPOs (in pounds):

This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372: - None Known -

#### California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section

Benzene - Cancer, Developmental and Reproductive Toxicant

Naphthalene - Cancer

Toluene - Developmental Toxicant

Diesel engine exhaust, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer,

#### Carcinogen identification:

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

Diesel exhaust is a probable cancer hazard based on tests in laboratory animals. It has been identified as a carcinogen by IARC.

All components are listed on the TSCA inventory.

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#### International Regulations:

Canadian Requistions:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Domestic Substances List: Listed WHMIS Hazard Class: B2 - Flammable Liquids D2B - Materials Causing Other Toxic Effects - Toxic Material

#### 16. OTHER INFORMATION

Issue Date:

Previous Issue Date: **Product Code:** 

**Previous Product Code:** 

Revised Sections or Basis for Revision:

MSDS Code:

21-Feb-2008

13-Feb-2003

Multiple

Multiple

Product Name / Synonyms (Section 1)

001847

Disclaimer of Expressed and implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license,

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#### Acute Data:

Diesel Fuel No. 2 (68476-34-6) Dermal LD50= >5ml/kg (Rabbit) LC50= No data available Oral LD50= 9 mi/kg (Rat)

Naphthalene (91-20-3)

Dermal LD50= >2.5 g/kg (rat)

LC50= >340 mg/m³/1H (rat)

Oral LD50= 490 mg/kg; 2.6 g/kg (rat)

#### 12. ECOLOGICAL INFORMATION

When middle distillate hydrocarbons escape into the environment due to leaks or spills, most of their constituent hydrocarbons will evaporate and be photodegraded by reaction with hydroxyl radicals in the atmosphere. The half-lives in air for many of the individual hydrocarbons is less than one day. Less volatile hydrocarbons can persist in the aqueous environment for longer periods. They remain floating on the surface of the water; those that reach soil or sediment biodegrade relatively slowly. Soil contaminated with middle distillates can develop adapted microbial species able to use the fuel as a carbon source; soil aeration and nutrient supplementation can enhance this biodegradation.

Reported LC50/EC50 values for water-soluble fractions of middle distillates are usually in the range of 10 to 100 mg/liter. Adverse effects on the gills, pseudobranch, kidney and nasal mucosa have been reported in fish involved in spills of middle distillates. Juvenile clams may be particularly sensitive to marine sediments contaminated as a result of spilled material. Direct toxicity and fouling of sea birds can occur if birds dive through floating layers of spilled material.

Phytotoxic effects of middle distillate hydrocarbons have been reported following exposure of plants to sprays or vapors. Lack of seed germination and inhibition of seedling growth may also occur. There is evidence for moderate bloaccumulation of the water-soluble hydrocarbons present in middle distillates.

#### 13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not a RCRA "listed" hazardous waste. However, it should be fully characterized for ignitability (D001) and benzene (D018) prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

#### 14. TRANSPORT INFORMATION

#### DOT

Shipping Description: Diesel Fuel, Combustible liquid, NA1993, III

Non-Bulk Package Marking: Not regulated in non-bulk quantities Non-Bulk Package Labeling: Not regulated in non-bulk quantities

Bulk Package/Placard Marking: Combustible/1993

Packaging - References (Exceptions, Non-Bulk, Bulk): 49 CFR 173.150(f), 173.203, 173.241

Hazardous Substance: None Emergency Response Guide: 128

Note: This product has been reclassified as a Combustible Liquid for domestic land transportation using 49 CFR 173.150(f).

#### IMDG

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Shipping Description: UN1202, Diesel fuel, 3, III (52°C) Non-Bulk Package Marking: Diesel fuel, UN1202 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., Sunta Fe, NM 87505

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 HOV () " (Wh) Form C-138 Revised March 17, 1999 If Conservation Divisio Submit Original

Oil Conservation Divisio Submit Original 1220 S. St. Francis Francis Santa Fe, NM 87500 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: X Non-Exempt:	4. Generator: Aztec Well Service
Verbal Approval Received: Yes X No: X Brandan Powell - OCA	5. Originating Site: Carson Federal I I C
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:  Rosenbaughm Trucking 325-6367
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o Box 2043 Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR) 4. NM, S-34, T-27N, R-4W	
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accompanied be one certificate per job.     B. All requests for approval to accept non-exempt wastes must be accompanied by a material is not-hazardous and the Generator's certification of origin. No waste of approved  All transporters must certify the wastes delivered are only the	nccessary chemical analysis to PROVE the assified hazardous by listing or testing will be
BRIEF DESCRIPTION OF MATERIAL: Diesel Contaminated Soil from ruptured	diesel storage tank
Estimated Volume 48 Known Folume to be entered by the operator at the end	d of the hauf)
SIGNATURE TITLE: Operations Man Waste Management Excility Authorized Agent	<u>1ager</u> DATE: 10/31/2006
TYPE OR PRINT NAME: <u>JOEL OWENS</u>	TELEPHONE NO. <u>(505) 632-1782</u>
E-MAIL ADDRESS: joel.owens@industrialecosystems.com	·
APPROVED BY: Down (STIFLE: Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of the Explosion of	DATE VOG
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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

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 March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: X Non-Exempt:	4. Generator: Aztec Well Service
Verbal Approval Received: Yes X No: X	5. Originating Site: Carson Federal I 1 C
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: Rosenbaughm Trucking 325-6367
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o. Box 2043 Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR)  1/4 NM, S-34, T-27N, R-4W	·
<ul> <li>9. Circle One:</li> <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 no material is not-hazardous and the Generator's certification of origin. No waste cla approved</li> </ul>	ecessary chemical analysis to PROVE the ssified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only tho	
Estimated Volume 48 Known Folume to be entered by the operator at the end  SIGNATURE  Waste Managemont Excitity Authorized Agent	of the haul)
	ELEPHONE NO. <u>(505) 632-1782</u>
(This space for State Use)	
APPROVED BY: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TITLE: TIT	DATE:



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Joanna Prukop Cabinet Secretary

Mark Fesmire Director Oil Conservation Division

#### CERTIFICATE OF WASTE STATUS

nec Well Service S. Main Sec. NM 87410  Originating Site (name); Carson Federal I I C	J.F.J. Landfarm C/O Industrial Ecosystems Inc. #81 CR 3150 Aztec, NM 87410 Phone # 505-632-1782 Fax No# 505-334-1003 Location of the Waste (Street address &/or ULSTR):
ec, NM 87410 Originating Site (name);	Aztec, NM 87410 Phone # 505-632-1782 Fax No# 505-334-1003
Originating Site (name):	Phone # 505-632-1782 Fax No# 505-334-1003
	Location of the Waste (Street address &/or ULSTR):
	Location of the Waste (Street address &/or ULSTR):
	UL- 1/2 NM S- 34 T- 27N R- 4 Wor attach list Street Address:
Attach list of originating sites as appr	opriate
Source and Description of Waste	
escl Contaminated soil from rupture	ed diesel storage tank
opriace classification)	
APT oilfield waste	X_NON-EXEMPT oilfield waste which is non-hazardous by characteristic Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.
XEMPT waste the following docume (_MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ntation is attached (check appropriate items):Other (description
s in compliance with Regulated Lev subpart 1403.C and D.	els of Naturally Occurring Radioactive Material (NORM) pursuant to 20
inal Signature):	Phone Contact; 320-5535
	Barrier 1 N
Manager	P.O# / Pay key No:
Manager /06	P.O# / Pay key No:
	Source and Description of Waste seel Contaminated soil from rupture things representative for: Aztec Well (RCRA) and Environmental Protect opriate classification)  APT oilfield waste  KEMPT waste the following document MSDS Information  RCRA Hazardous Waste Analysis Chain of Custody  s in compliance with Regulated Level uppart 1403.C and D.

Oil Conservation Division * 1000 Rio Brazos Road * Aztec, New Mexico 87410 Phone: (505) 334-6178 * Fax (505) 334-6170 * http://www.einnrd.state.nm.us

Status: Final

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Date of Issue; 21-Feb-2006

## ConocoPhillips

### MATERIAL SAFETY DATA SHEET

#### No. 2 Diesel Fuel

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 

No. 2 Diesel Fuel

Synonyms:

CARB Diesel TF3; CARB Diesel; CARB Diesel 10% CARB Diesel Ultra Low Sulfur - Dyed and Undyed EPA Low Sulfur Diesel Fuel - Dyed and Undyed EPA Off Road High Sulfur Diesel - Dyed

High Sulfur Diesel Fuel; Low Sulfur Diesel Fuel

No. 2 Diesel Fuel Oil

No. 2 High Sulfur Diesel - Dyed

No. 2 Low Sulfur Diesel - Dyed; No. 2 Low Sulfur Diesel - Undyed

No. 2 Low Sulfur Distillate

No. 2 Ultra Low Sulfur Diesel - Dyed; No. 2 Ultra Low Sulfur Diesel - Undyed

Super Diesel Fuel; Super Diesel Fuel II-LS

Virgin Diesel Fuel; No. 2 Distillate

Super Diesel Fuel; Super Diesel Fuel II-LS

Virgin Diesel Fuel

Intended Use:

Chemical Family:

Petroleum Hydrocarbon

Responsible Party:

ConocoPhillips

600 N. Dairy Ashford

Houston, Texas 77079-1175

MSDS Information:

800-762-0942

MSDS@conocophillips.com

**Customer Service:** 

800-527-5476

Technical Information:

800-527-5476

#### **Emergency Overview**

#### 24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident Call CHEMTREC:

North America: (800) 424-9300 Others: (703) 527-3887 (collect)

California Poison Control System: (800) 356-3219

Health Hazards/Precautionary Measures: Causes skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use with ventilation adequate to keep exposure below recommended limits, if any. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Flammable liquid and vapor. Keep away from heat, sparks, flames, static electricity or other sources of ignition.

Appearance:

Straw colored to dyed red

Physical Form: Odor:

Llquid Diesel fuel

NFPA 704 Hazard Class:

Health:

1 (Slight)

Flammability:

2 (Moderate)

Instability:

0 (Least)

Status: Final

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Date of Issue: 21-Feb-2006

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component / CAS No:	Concentration (wt %)	ACGIH:	OSHA:	NIQ\$H:	Other:
Diesel Fuel No. 2 88476-34-6	100	100 mg/m³ TWA- SKIN	NE	NE	
Naphthalene 91-20-3	<1	10 ppm TWA 52 mg/m³ TWA 15 ppm STEL 79 mg/m³ STEL	10 ppm TWA 50 mg/m³ TWA	250 ppm IDLH	****

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM. NE=Not Established

#### 3. HAZARDS IDENTIFICATION

#### Potential Health Effects

Eye: Contact may cause mild eye imitation including stinging, watering, and redness.

Skin: Mild to moderate skin imitant. Contact may cause redness, itching, burning, and skin damage. Prolonged or repeated contact may cause drying and cracking of the skin, dermatitis (inflammation), burns, and severe skin damage. No harmful effects from skin absorption have been reported.

Inhatation (Breathing); No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the respiratory tract, irritation of the digestive tract, nausea, diarrhea, transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: There is inadequate information to evaluate the cancer hazard of this material. See Section 11 for information on the individual components, if any.

Target Organs: Inadequate evidence available for this material. See Section 11 for target-organ toxicity information of individual components, if any.

Developmental: Inadequate data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders.

#### 4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek medical attention.

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Date of Issue: 21-Feb-2006

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

#### 5. FIRE-FIGHTING MEASURES

#### Flammable Properties:

Flash Point

125-180°F / 52-82°C

**Test Method:** 

Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

**OSHA Flammability Class:** 

Combustible liquid

LEL%: UÉL%: 0.3 10.0

**Autoignition Temperature:** 

500°F / 260°C

Unusual Fire & Explosion Hazards: This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Ory chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk,

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

#### 6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof electrical equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk, Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

Status: Final

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Date of Issue: 21-Feb-2006

#### 7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

#### Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation, and skin damage. Examples of approved materials are nitrile or Viton® (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or Injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Status: Final

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Date of issue: 21-Feb-2006

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical Form:

Odor:

Odor Threshold:

pH:

Vapor Pressure (mm Hg): Vapor Density (air=1): Bolling Point:

Solubility in Water:

Partition Coefficient (n-octanol/water) (Kow):

Specific Gravity: Bulk Density: Viscosity cSt @ 40°C;

Percent Volatiki:

Evaporation Rate (nBuAc=1):

Flash Point: Test Method; LEL%:

UEL%:

**Autoignition Temperature:** 

Straw colored to dved red

Liquid Diesel fuel No data Not applicable

0.40 > 3

300-690°F / 149-366°C

Negligible No data

0.81-0.88@ 60°F (15,6°C)

7.08 lbs/gal 1.7-4.1

Negligible@ ambient conditions

<1

125-180°F / 52-82°C

Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

0.3 10.0

500°F / 260°C

#### 10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Flammable liquid and vapor. Vapor can cause flash fire.

Conditions to Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

Hazardous Decomposition Products: Combustion can yield carbon, nitrogen and sulfur oxides. The use of hydrocarbon fuel in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur and nitrogen, benzene and other hydrocarbons) and/or dangerously low oxygen levels. See Section 11 for additional information on hazards of engine exhaust. IARC has classified Diesel exhaust as probably carcinogenic in humans.

Hazardous Polymerization: Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

Chronic Data:

#### Diesel Fuel No. 2 (68476-34-6)

Carcinogenicity: Petroleum middle distillates have been shown to cause skin tumors in mice following repeated and prolonged skin contact. Follow-up studies have shown that these tumors are produced through a non-genotoxic mechanism associated with frequent cell damage and repair, and that they are not likely to cause tumors in the absence of prolonged skin irritation. Animal studies have also shown that washing the skin with soap and water can reduce the tumor response. Middle distillates with low polynuclear aromatic hydrocarbon content have not been identified as a carcinogen by NTP, IARC or OSHA.

Target Organs: Limited evidence of renal impairment has been noted from a few older case reports involving excessive exposure to diesel fuel No. 2. However, renal toxicity has not been demonstrated to be a consistent finding of diesel fuel exposure.

#### Naphthalene (91-20-3)

Carcinogenicity: Naphthalene has been evaluated in two year inhalation studies in both rats and mice. The National Toxicology Program (NTP) concluded that there is clear evidence of carcinogenicity in male and female rats based on increased incidences of respiratory epithelial adenomas and olfactory epithelial neuroblastomas of the nose. NTP found some evidence of carcinogenicity in female mice (alveolar adenomas) and no evidence of carcinogenicity in male mice. Naphthalene has been identified as a carcinogen by IARC and NTP.

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Date of Issue: 21-Feb-2006

MSDS Code: 001847

Status: Final

#### 14. TRANSPORT INFORMATION

Labels: Flammable

Placards/Marking (Bulk): Flammable/1202 Packaging - Non-Bulk: P001, LP01

EMS: F-E, S-E

#### **КАОЛАТА**

UN/ID #: UN1202

Proper Shipping Name: Diesel fuel

Hazard Class/Division: 3 Packing Group: III Subsidiary risk: None

Non-Bulk Package Marking: Diesel fuel, UN1202

Labels: Flammable

	LID. QIT.	Passenger Alician	Cargo Aircraft Only
Packaging Instruction #:	Y309	309	310
Max. Net Qty. Per Package:	10 L	60 L	220 L

#### 15. REGULATORY INFORMATION

#### U.S. Regulations:

#### EPA SARA 311/312 (Title III Hazard Categories)

Acute Health:

Yes

Chronic Health:

No Yes

Fire Hazard:

No

Pressure Hazard; Reactive Hazard:

No No

,

SARA - Section 313 and 40 CFR 372:
This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

Naphthalene.....91-20-3.....<1%

#### EPA (CERCLA) Reportable Quantity (in pounds):

EPA's Petroleum Exclusion applies to this material - (CERCLA 101(14)).

#### CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPOs (in pounds):

This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372:

- None Known -

#### California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Benzene - Cancer, Developmental and Reproductive Toxicant

Naphthalene - Cancer

Toluene - Developmental Toxicant

Diesel engine exhaust, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer.

#### Carcinogen identification:

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

Diesel exhaust is a probable cancer hazard based on tests in laboratory animals. It has been identified as a carcinogen by IARC.

#### TSCA:

All components are listed on the TSCA inventory.

Status: Final

Page 8/8

Date of Issue: 21-Feb-2006

#### International Regulations:

Canadian Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Domestic Substances List: Listed

WHMIS Hazard Class:

B2 - Flammable Liquids

D2B - Materials Causing Other Toxic Effects - Toxic Material

#### 16. OTHER INFORMATION

lasue Date:

21-Feb-2008

Previous Issue Date:

13-Feb-2003

Product Code:

Multiple

**Previous Product Code:** 

Multiple

Revised Sections or Basis for Revision:

Product Name / Synonyms (Section 1)

MSDS Code:

001847

Disclaimer of Expressed and implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices, The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. in addition, no authorization is given nor implied to practice any patented invention without a license.

Status: Final

Page 6/8

Date of Issue: 21-Feb-2006

P.007

#### Acute Data:

Diesel Fuel No. 2 (68476-34-6) Dermai LD50= >5mt/kg (Rabbit) LC50= No data available Oral LD50= 9 mt/kg (Rat)

Naphthalene (91-20-3)

Dermal LD50= >2.5 g/kg (rat)

LC50= >340 mg/m³/1H (rat)

Oral LD50= 490 mg/kg; 2.6 g/kg (rat)

#### 12. ECOLOGICAL INFORMATION

When middle distillate hydrocarbons escape into the environment due to leaks or spills, most of their constituent hydrocarbons will evaporate and be photodegraded by reaction with hydroxyl radicals in the atmosphere. The half-lives in air for many of the individual hydrocarbons is less than one day. Less volatile hydrocarbons can persist in the aqueous environment for longer periods. They remain floating on the surface of the water, those that reach soil or sediment biodegrade relatively slowly. Soil contaminated with middle distillates can develop adapted microbial species able to use the fuel as a carbon source; soil aeration and nutrient supplementation can enhance this biodegradation.

Reported LC50/EC50 values for water-soluble fractions of middle distillates are usually in the range of 10 to 100 mg/liter. Adverse effects on the gills, pseudobranch, kidney and nasal mucosa have been reported in fish involved in spills of middle distillates. Juvenile clams may be particularly sensitive to marine sediments contaminated as a result of spilled material. Direct toxicity and fouling of sea birds can occur if birds dive through floating layers of spilled material.

Phytotoxic effects of middle distillate hydrocarbons have been reported following exposure of plants to sprays or vapors. Lack of seed germination and inhibition of seedling growth may also occur. There is evidence for moderate bloaccumulation of the water-soluble hydrocarbons present in middle distillates.

#### 13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not a RCRA "listed" hazardous waste. However, it should be fully characterized for ignitability (D001) and benzene (D018) prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

#### 14. TRANSPORT INFORMATION

#### DOT

Shipping Description: Diesel Fuel, Combustible liquid, NA1993, III

Non-Bulk Package Marking: Not regulated in non-bulk quantities Non-Bulk Package Labeling: Not regulated in non-bulk quantities

Bulk Package/Placard Marking: Combustible/1993

Packaging - References (Exceptions, Non-Bulk, Bulk): 49 CFR 173.150(f), 173.203, 173.241

Hazardous Substance: None Emergency Response Guide: 128

Note: This product has been reclassified as a Combustible Liquid for domestic land transportation using 49 CFR 173.150(f).

#### IMDG

Shipping Description: UN1202, Diesel fuel, 3, III (52°C) Non-Bulk Package Marking: Diesel fuel, UN1202

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

Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REOUEST FOR	APPROVAL TO ACCEP	T SOLID WASTE	
1. RCRA Exempt: Non-Exempt: 🔀		4. Generator: Basin Disposal	
Verbal Approval Received: Yes	No:	5. Originating Site: Basin Disposal	or coks. 91
2. Management Facility Destination: JFJ La	ndfarm L.L.C.	6. Transporter: Basin Disposal	
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499		8. State: NM	
7. Location of Material (Street Address or UI 200 Montana Ave, CR 5046 Bloomfield, NM	LSTR)		
one certificate per job.  B. All requests for approval to accept non-exer material is not-hazardous and the Generator approved  All transporters must cert  BRIEF DESCRIPTION OF MATERIAL:  Mixture of mostly water and lubrication oil from 1311/8081A, TCLP metals 6000/7000, TCLP 815  Request approval for a 6month period.	's certification of origin. No waste clinify the wastes delivered are only the manner of the pumphouse of the pumphouse	assified hazardous by listing of the consigned for transport.	or testing will be
Known Volume <u>bbls</u> (to be entered by	the operator at the end of the haul	)	
SIGNATURE Waste Management Facility Authorized		ns Manager DATE: <u>12</u> /	/22/2006
TYPE OR PRINT NAME: <u>Joel Owens</u>	ΓΕLΕΡΗΟΝΕ ΝΟ. <u>(505) 632-1782</u>		
E-MAIL ADDRESS: <u>itowens@industrialecosyst</u>	ems.com		
(This space for State Use)			
APPROVED BY: BO	TITLE:	DATE	: 12-26
APPROVED BY:	TITLE:		:



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSO
Governor
Jonana Prukop
Cableet Secretary

Mark Feamire
Director
Oli Conservation Division

#### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address	2. Destination Name:
Rasin Disposal	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
200 Montana Ave, CR 5046	#81 CR 3150
Bloomfield, NM 87413	Aztec, NM 87410
	Phone # 505-632-1782 Fax No# 505-334-1003
3. Originating Site (name):	Location of the Weste (Street address &/or ULSTR):
Basin Disposol	UL- S- T- R- or attach list
	Street Address: 200 Montana Ave. CR 5046
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Mixture of mostly water and Inbrication oil from pump	s operating the pumphouse sump.
7 N L DA AL III AL	416 At
I. John M. Volkeriling representative for Barin Disposal do hereby o	
Recovery Act (RCRA) and Environmental Protection Agency's July,	1988, regulatory determination, the above described waste is:
(Check appropriate classification)	
EXEMPT oilfield waste X NON-E	XEMPT oilfield waste which is non-bazardous by characteristic
	or by product identification and that acthing has been added to
	apt or non-exempt non-bazardous waste defined above.
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
For NON-EXEMPT waste the following documentation is attached (a	check appropriate items):
	Other (description ) Full TCLP
RCRA Hazardons Waste Analysis	. ,
X Chain of Custody	
This waste is in compliance with Regulated Levels of Naturally Oc	curring Radioactive Material (NORM) pursuant to 20
NMAC 3.1 subpart 1403.C and D.	
Name (Original Signature):	Phone Contact: <u>595-334-3013</u>
Titles Coursel Manager	D Chil / Bear hear Was
Title: General Manager	P.O# / Pay key No:
Date: 12/26/2006	
Pare Marketin	

Oil Conservation Division * 1000 Rio Brazos Road * Aztec, New Mexico 87410 Phone: (505) 334-6178 * Fax (505) 334-6170 * http://www.emard.state.rim.us

612 E. Murray Drive Farmington, NM 87401

> Off: (505) 327-1072 Fax: (505) 327-1496

# iiná bá

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

November 20, 2006

John Hagstrom Souder, Miller & Associates 612 E. Murray Dr Farmington, NM 87401

TEL: 505-325-5667 FAX: 505-327-1496

RE: Basin Disposal

Dear John Hagstrom:

Order No.: 0611010

iiná bá received 1 sample on 11/8/2006 10:45:00 AM for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By: _

Jeffrey L. Engels, Laboratory

Edwina F. Aspaas, Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at (505) 327-1072.



612 E. Murray Drive Farmington, NM 87499

Off: (505) 327-1072 FAX: (505) 327-1496

# iiná bá

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

iiná bá

Date: 20-Nov-06

CLIENT:

Souder, Miller & Associates

Project:

Basin Disposal

Lab Order:

0611010

CASE NARRATIVE

Test America analyzed for TCLP metals, volatiles, semi-volatiles, pesticides, and herbicides. Their report is attached.

#### iiná bá

#### Sample Receipt Checklist

Cliant Name: SMA1005			Date and T	ime Received:	11/8/2006 10:45:00 AM
Work Order Number: 0611010			Received b	y: jem	
Checklist completed by: 27/2002	C 11/3/	16	Reviewed I	by: <u> </u>	11/9/06
Matrix:	Carrier name:	John Had	strom	·	
Shipping container/cooler in good condition?		Yes 🗹	No ∐	Not Present	
Custody seals intact on shippping container/coo	ler?	Yes 🗌	No 🗀	Not Present	$\mathbf{Z}$
Custody seals intact on sample bottles?		Yes 🗌	No []	Not Present	
Chain of custody present?		Yes 🔽	No 🗔		
Chain of custody signed when relinquished and	n≩ceived?	Yes 🗹	No 🗆		
Chain of custody agrees with sample labels?		Yes 🗹	No 🗀		
Samples in proper container/bottle?		Yes 🔽	No CO		
Sample containers intact?		Yes 🗹	No 🗌		
Sufficient sample volume for indicated test?		Yes 🔽	No 🗆		
All samples received within holding time?		Yes 🗹	No 🗆		•
Container/Temp Blank temperature in compliant	≎ <b>e</b> ?	Yes 🗹	No □ Io	2°Com	icl
Water - VQA visis have zero headspace?	No VOA vials subm	illed 🗹	Yes [	No □	
Water - pH acceptable upon receipt?		Yes 🗹	No 🗔		
	Adjusted?		Checked by:		
Any No and/or NA (not applicable) response mu	st be detailed in the co	ornments se	ection below.	=====	=======
Client contacted:	Date contacted:		Per	son contacted:	. , ,
Contacted by:	Regarding:				
9 0	. 1 .		4 2 0	0	1.
Comments: Samples second	wed on see		the Lhou	us of s	ampling event,
Corrective Action:					



2900 Foster Creighton Road Nashville, TN 37204 * 800-765-XXIIO * Fax 615-726-3404

November 20, 2006

Client

lina Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Am:

Jeff Engels

Work Order:

NPK 1622 tion Ba. LTD

Project Name: Project Nbr:

0611010

P/O Nbr:

Date Received:

11/10/06

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE AND TIME

0611010-001A

NPK 1622-01

11/08/06 09:10

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify as immediately at 615-726-0177.

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:

Roxanne Connor

Program Manager - Conventional Accounts

Roxanne L. Connor



2960 Foster Creighton Road Newtyllio, TN 37204 * 800-765-0080 * Fax 615-726-3404

Ctient lina Ba, LTD (3130)

612 E. Murray Drive

Fannington, NM 87401

Ann Jeff Engels

Work Order:

NPK1622

Project Number:

tion Ba, LTD 0611010

Received:

11/10/06 07:50

#### ANALYTICAL REPORT

Analyte	Result	Flug	Units .	MŘL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPK1622-01 (0611010	)-001 A - Water	r) Sumpled:	11/08/06 09:10					
TCLP Metals by 6000/7000 Series Me	thods							
Amenic	טא		mg/L	0.100	1	11/13/06 14:57	W846 1311/6010	6112564
Barium	0.143		mg/L	0,100	1	11/13/06 14:57	W846 1311/6010	6112564
Cadmium	ND		mg/L	0.0100	1	11/13/06 14:57	W846 1311/6010	6112564
Chromium	מא		m⊮l.	0,0500	1	11/13/06 14:57	W846 1311/6010	6112564
Lead	ND		mg/L	0,0500	i	11/13/06 14:57	W846 1311/6010	6112564
Selenium	ND		mg/L	0,100	1	11/13/06 14:57	W846 1311/6010	6112364
Silver	ND		mg/L	0.0300	1	11/13/06 14:37	W846 1311/6010	6112564
Mercury	ND		ing/L	0.0100	1	11/14/06 11:53	W846 1311/7470.	
TCLP Chlorinated Herbicides by EPA	Method 8151							
2.4-D	ND		mg/L	0.100	1	11/15/06 17:33	W846 1311/8151.	6112666
2.4.5-TP (Silvex)	NO		mg/L	0.100	1		W846 1311/8151,	
Surr: Dichloroacetic Acid (27-151%)	78 %		•		•		WS40 1311/8151.	
TCLP Volatile Organic Compounds by	EPA Method 13	311/8260B						
Benzene	0.201		ng/L	0.100	10	11/15/06 23:22	W846 1311/8260	6112257
2-Butanone	ND		mg/L	2.50	10	11/15/06 23:22	W846 1311/8260	
Carbon Totrachloride	ND		ng/L	0.100	10	11/15/06 23:22	W846 1311/8260	
Chlorobenzene	ND		mg/L	0.100	10	11/15/06 23:22	W846 1311/8260	
Chlorotorm	ÜИ		mg/L	0.100	10	11/15/06 23:22	W846 1311/8260	
1,2-Dichloroethane	ND		mg/L	0.100	10	11/15/06 23:22	W846 1311/8260	
1,1-Dichlorocthene	ND		mg/l.	0.100	10	11/15/06 23:22	W846 1311/8260	
Tetrachloroethene	ND		mg/L	0.100	10	11/15/06 23:22	W846 1311/8260	-
Prichloroethene	ND		mg/L	0.100	10	11/15/06 23:22	W846 1311/8260	
Vinyl chloride	ND		mg/L	0.100	10	11/15/06 23:22	W846 1311/8260	
Surr: 1,2-Dichlaroethune-d4 (62-142%)	93 %			0.100	10	11/15/06 23:22		6112757
Surr: Dibromofluoromethane (78-123%)	94 %					11/13/06 23:22		6112737
Surr: Tolwene-d8 (79-120%)	ys %						W844 1311/8260	6112757
iur: 4-Bromofluorobenzene (75-133%)	95 %							6113757
TCLP Semivolatile Organic Compound		d 1311/8270Č						
Cresol(s)	ND		mg/L	0.0200	2	11/17/06 11:37	W846 1311/8270-	6112655
.4-Dichlorobenzene	ND		mg/L	0.0200	2	11/17/06 11:37	W846 1311/8270	6112655
4-Oinitrotoluene	ND		nı⊈∕L	0.0200	2	11/17/06 11:37	W846 1311/8270	6112655
1exachlorobenzene	ND		mg/L	0.0200	2	11/17/06 11:37	W846 1311/8270	6112655
lexachlorobigadiene	ND		mg/L	0.0200	2	11/17/06 11:37	W846 1311/8270	6112655
lexachloroethane	NĎ		mg/L	0.0200	2	11/17/06 11:37	W846 1311/6270 (	6112655
licrobenzene	ND		nig/L	0.0200	2	11/17/06 11:37	W\$46 1311/8270- (	6112655
crachiorophenol	מא		ing/L	0.0200	2	11/17/06 11:37	W846 1311/8270 (	6112633
yridine	מא		mg/L	0.0200	2	[]/17/06 11:37	W846 1311/8270 (	112655
.4,6-Trichlorophenol	מא		mg/L	0.0200	2	11/17/06 11:37	W846 1311/8270 6	5112655
4,5-Trichlorophenol	ND		ing/L	0,0200	2		W846 1311/8270- 6	
-Methylphenol	ND		mg/L	0.0200	2		W846 (311/8270) 6	
/4-Methylphenol	NĎ		mg/L	0.0200	2		W846 1311/8270 6	
urr: Terphenyl-d1d (29-149%)	72 %		-		-		W8+6 1311/8270	
ur: 2.4,6-Tribromophenol (40-161%)	76 %						W846 1311/8270	



2960 Faster Creighton Road Nachvillo, TN 37204 * 800-765-0980 * Fax 015-726-3404

Client lina Ba, LTD (3130)

612 E. Marray Drive

Farmington, NM 87401

Jeff Engels Aπn

Work Order:

NPK 1622

Project Name:

lina Ba, LTD

Project Number:

0611010

Received:

11/10/06 07:50

#### ANALYTICAL REPORT

Analyte	Result	Flag	Vuits	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NPK1622-01 (0611010-0	)01A - Water)	- cont. Sa	mpled: 11/08/0	6 09:10				
TCLP Semivolatile Organic Compounds	by EPA Metho	d 1311/8270	C - cont.					
Surr: Phenol-d5 (11-76%)	48 %					11/17/06 11:37	W846 1311/8270	6112655
Surr: 2-Fluorobiphenyl (30-120%)	74 46					11/17/06 11:37	W846 1311/827U	6112655
Sure: 2-Fluorophenul (20-86%)	58 %					11/17/46 11:37	W846 1311/8270	6/12655
Surr: Nitrobunzane-d5 (24-125%)	69 36					11/17/06 11:37	W846 1311/8270	6112655
TCLP Pesticides by EPA Method 1311/8	1081 A							
gamma-BHC (Lindane)	ND		mg/L	0.000500	1	11/14/06 21:11	W846 1311/8081.	6112650
Chlordane	ND		mg/L	0.00100	1	11/14/06 21:11	W846 1311/8081,	6112650
Endrin	ND		mg/L	0.000300	1	11/14/06 21:11	W846 1311/8081.	6112650
Heptachlor	ND		mg/L	0.000500	1	11/14/06 21:11	W846 1311/8081.	6112650
Heptachior epoxide	מא		mg/i.	0.000500	1	11/14/06 21:11	W846 [311/80X].	6112650
Methoxychlor	ND		mg/L	0,000500	1	11/14/06 21:11	W846 1311/8081.	6112650
Toxuphene	ÜN		my/L	0.0500	1	11/14/06 21:11	W846 1311/8081.	6112650
Surr: Tetrachloro-mota-xylone (46-127%)	1084 %	25	•			11/14/06 21:11	WS46 1311/8081.	6112680
Surv. Decachtorohiphenyl (25-144%)	101 %					11/14/06 21:11	WX46 1311/8031	



2960 Factor Craighton Road Nashville, TN 37204 * 900-765-0980 * Fox 615-726-3404

Client line Ha, LTD (3130) 612 E. Murray Drive

Farmington, NM 87401

Jeff Engels Aun

Work Order:

NPK1622

Project Name:

lina Ba, LTD

Project Number:

0611010

Received:

11/10/06 07:50

#### SAMPLE EXTRACTION DATA

		,					
			Wı∕Vəl				Extraction
Parameter .	Batch	Lah Number	Extracted	Extracted Vol	Date	Analysi	Method
TCLP Chlorinated Herbicides by EP.	A Method 8151						
SW846 1311/H151A	0112nnn	NPK 1622-Ú1	5.00	5.00	11/14/06 10:35	Siti	UPA KISIA
TCLP Extraction by EPA 1311							
SW846 1311	6112393	NPK 1622-01	100.00	2000.00	11/11/06 12:48	18\$	EPA 1311
SW846 1311	6112393	NPK (622-0)	100.00	2000.00	11/11/06 12:48	188	EPA 1311
SW846 (3))	6112393	NPK1622-01	100.00	2000.00	11/11/06 12:48	155	EPA 1311
TCLP Metals by 6000/7000 Series M	lethods						
SW846 1311/6010H	6112564	NPK1622-01	5.00	\$0,00	11/13/06 11:30	1.73	EPA 3015
SW846 1311/6010B	6112564	NPK 1622-01	5.00	50,00	11/13/06 11:30	LTB	EPA 3015
SW846 1311/6010B	6112564	NPK 1622-01	5.00	50.00	11/13/06 11:30	LTB	BPA 3015
SW846 1311/6010B	6112564	NPK 1622-01	5.00	50,00	11/13/06 11:30	g.TB	EPA 3015
SWR46 1311/6010B	6112364	NPK1622-01	5,00	\$0.00	11/13/06 11:30	LTB	EPA 3015
SW846 1311/60108	6112564	NPK (632-01	5.00	50.00	1371,3706 11:30	LTB	EPA 3015
SW846-1311/6010B	6112564	NPK 1622-01	5.00	50.00	11/13/06 11:30	LTH	EPA 3015
SWE46 1311/6010B	6112393	NPK (622-01	100.00	2000,00	11/11/06 15:15	JSS	EPA 1311
SW846 1311/7470A	6112494	NPK 1622-01	3.00	30.00	11/13/06 07:58	JMR	EPA 7470
TCLP Pesticides by EPA Method 131	11/8081A						
SW846  31 /8081A	6112650	NPK 1623-01	100.00	10.00	11/14/06 10:40	KLG	BPA 3510C Leading
TCLP Semivolatile Organic Compoun	nds by EPA Metho	od 1311/8270C					
SW#46 1311/#270C	4112655	NPK1622-01	Suu.00	00.1	11/14/06 11:30	KLG	EPA 3510C Leachaid
SW846 1311/8270C	6112393	NPK 1622-01	100,00	2000.00	11/11/06 12:48	221	EPA 1311



296t) Faster Creighton Road Nashville. TN 37204 * 800-765-0980 * Fax 615-726-3404

Client lina Ba, LTD (3130)

612 E. Murray Drive Farmington, NM 87401

Attn Jeff Engels

Work Order:

NPK 1622

Project Name:

tina Ba, LTD 0611010

Project Number: Received:

11/10/06 07:50

### PROJECT QUALITY CONTROL DATA Blank

Austyte	Blank Value	Q	Units	Q.C. Baseb	Lab Number	Analyzed Date/Time
TCLP Metals by 6000/7000 Serie	s Methods					
6112494-BLK1						
Mercury	-:0.00500		กาเปร	4112494	6112494-BLK1	11/14/06 11:11
6112564-BLK1						
Arbonic	u.(J.34t)		ntg/L	6112564	6112364-BLK1	11/13/06 13:49
Barium	< 0.00100		mg/L	611256-1	6112564-BLK1	11/13/06 13;49
Codmiun	~:0.(N)04(N)		m _t ∠L	6112564	6112564-BLK1	(1/13/96 13:49
Chromium	<2),00130		my/l,	6112564	6112564-BLK1	11/13/06 13:49
Lead	< 0.00220		mu./L	n112564	6112564-BLK1	11/13/06 13:49
Selenium	0.0231		₩₽∕L	6112564	6112564-BLK1	11/13/06 13:49
Silver	<0.00190		m _t .⁄L	6112564	6112564-BI.KI	14/13/06 13:49
CLP Chlorinated Herbicides by	EPA Method 8151					
6112666-BLK1						
2,4-D	<0.0220		m⊭∕L	61 12 ño ñ	6112666-BLK1	17/15/06 17:56
2,4,5-TP (Silvex)	-:0.00400		لير au L	6112666	6112666-BLKI	11/15/06 17:56
Surrogate: Dichtoroacette Acid	93%			6112666	6112666-BLK1	11/15/06 17:56
CLP Volatile Organic Compour	nds by EPA Method 1:	311/8260B				
5112757-BLK1						
Benzene	01 EQU, 0:-		mg/L	6112757	6112757-BLKI	11/15/06 22:07
2-8 տասա	<0.00310		mg/L	6112757	61 12757-BLK1	11/15/06 22:07
Curbon Terrachlocide	<0.00220		നൃ/L	6112757	6112757-BLK1	11/15/06 23:07
Chlorobennene	-:0.00340		mg/L	6112757	6112757-BLK1	11/15/06 22:07
Chloroform	<0.(#)510		יואוויי	61 12757	6112757-BLK1	11/15/06 22:07
1,2-Dichloroethane	<0.00370		mu∕L	6112757	6112757-BLK1	. 11/15/06 22:07
1.1-Dichlorouthene	<0.00270		ing/l.	61 12757	6112757-BLK1	11/15/06 22:07
Totrachlorochere	<0.00320		ın⊵/L	6112757	6112757-BLK1	11/15/06 22:07
Trichloroethene	<0.00250		mg/L	6112757	6112757-BLK1	11/15/06 22:07
Viayl chloride	<0.00260		m⊭L	6112757	6112757-BLK1	11/15/06 22:07
urragute: 1.2.Dichtoroethane-d-t	96%			0112757	6112757-BLK1	11/15/06 22:07
nerogute: Dibromofluoromethune	94%			6112757	6112757-BLK1	11/15/06 22:07
urruguis: Tuliwine-18	94%			6112737	6112757-BLK1	11/15/96 33:07
iurrogese: 4-Branufluurahenzene	96%			6112757	6112757-BLKI	11/15/06 22:07
CLP Sumivolatile Organic Comp	sannds by EDA Matha	A 1211/8970	c			
112655-BLK1	Jounus by EFA Metho	u 1311/02/0	C			
Crossi(s)	<0.0188		ang/L	6112655	6112655-BLK1	11/16/06 14:43
4-Diahlumhenzene	<0.0112		neg L	6112655	6112655-BLK1	11/16/06 14:43
2.4-Diniuorotuene	<0.0104		ın⊭L	6112655	6112655-BLKI	11/16/06 14:43
Househlerobonzone	0.08KM).0>		mg/L	6112655	6112655-BLK1	11/16/06 14:43
			-			
tlexachlorobutadiono	<0.0104		בו לענח	6112655	611265S-BLK1	11/16/06 14:43



1960 Foster Craighton Roud Nashville, TN 37204 1800-765-0980 1 Fax 615-726-3404

Client lina Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Ann Jeff Engels

Wark Order:

NPK 1622

Project Name: Project Number: lina Ba, LTD 0611010

Received:

11/10/06 07:50

#### PROJECT QUALITY CONTROL DATA Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Barch	Lab Number	Analyzed Date/Time
TCLP Semivolatile Organic Com	ipounds by EPA Meth	od 1311/827	юC			
6112655-BLK1						
Niumbenzone	0.00000		mg/L	6112655	6112N55-BLK1	11/16/06 14:43
Pentachterophenol	<0.00900		mg/L	6112655	6112655-BI,KI	11/16/06 14:43
Pyridine	<0.6402		mg/L	6112655	6112655-BLK1	11/16/06 14:43
2,4,6-Trichlorophenol	<0,00840		mg/L	n112655	6112655-BLK1	11/16/06 14:43
2.4.5-Trickluraphenol	-co.up#40)		m⊯/t.	6112655	6112655-BLK1	11/16/06 14:43
2-Methylphanal	-=0.00560		mg/L	6112455	6112655-BLK1	11/16/06 14:43
3/4-Methytphenol	<0,00620		ıng/L	6112655	6112655-BI-KI	[1/16/06 ]4:43
Surrogeas: Terphenyl-d14	78%			6112655	6112655-BLK1	11/16/06 14:43
Surrogue: 2.4.6-Tribromophenol	74%			6112655	6112655-BLK1	11/10/06 14:43
Surragace: Phenol-d5	39%			0112655	6)12655-BLK1	11/16/0G 14;43
Surrayate: 2-Fluorabiphenyl	74%			6132055	61 (2n55-BLK)	11/16/06 14:43
Surrogate: 2-Fluorophenot	50%			6112655	6112655-BLK1	11/16/06 14:43
Surrugute: Nitrohensene-4/5	72%			6112055	6112455-BLK1	11/16/06 14:43
TCLP Pesticides by EPA Method	1311/8081A					
5112650-BLK1						
gatunas-BHC (Linduce)	<0.000100		ing/L	6112650	61 (2650-BLK)	11/14/06 19:41
Chloribuc	<0.000700		turE∖r	61 (2650)	6112650-HLK1	11/14/06 19:41
Endrin	<0,000400		mg/1_	6112650	6112650-BLK1	11/14/06 19:41
Heptachlor	≈0.000300		տը/L	61 12650	6112650-BLK1	11/14/06 19:41
l tepmehlar epaxide	<0,000300		mg/1.	6112650	6112650-BLK1	11/14/06 19:41
Medioxyddor	<4).00v300		mg/L	61 (2650	6112650-BLK1	11/14/06 19:41
Turaphate	<0.0170		m⊌/L	6112650	6112650-BLK1	13/14/06 19:41
Surrogute: Tetrachturo-meta-xylona	106%			6112630	6112650-BLK1	11/14/06 19:41
Surrogute: Decachlorohiphenyi	113%			6112650	6112650-BLK1	11/14/06 [9:4]



2960 Fester Creighton Read Nashville. TN 37204 * 800-765-0960 * Fax 616-726-3404

Client line Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Ann Jeff Engels

Work Order:

NPK 1622

Project Name: Project Number:

tina Ba, LTD 0611010

Received:

11/10/06 07:50

#### PROJECT QUALITY CONTROL DATA

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Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	- Target Range	Batch	Analyzed Dete/Time
TCLP Metals by 6000/7000 Series	Methods							
6112494-BS1								
Moreury	0.0200	0.0202		mg/L	101%	7K = 124	P11348H	11/14/0s 11:20
6112564-BS1								
Albanic	10.0	9.87		m∉⁄t.	99%	80 - 120	6112564	11/13/06 13:58
8:wium	100	102		ing/L	102%.	80 - 120	6112564	11/13/06 13:58
Cadmium	13,61	9.85		ings/l.	98%	80 - 120	6112564	11/13/06 13:5×
Chromium	\$0.0	48.0		մայ/Լ	Y6%	KA - 120	6112564	11/13/06 13:58
Lead	50.0	48.6		mµ/L	97%	80 - 120	6112564	11/13/06 13:58
Selenium	10.0	9.82		mp/L	48%	80 - 120	6112564	11/13/06 13:58
Silver	10,0	9.42		mg/L	9.1%	80 - 12u	0112504	11/13/06 13:5%
TCLP Chlorinated Herbicides by	EPA Method 8151							
6112666-BS1								
2,4-1)	1.00	0.666		mg/L	67%	39 - 140	6112666	11/15/06 18:07
2.4.5-TP (Silven)	1.00	0.652		ing/L	65%	32 - 125	6112666	11/15/06 18:07
Surroguto: Dichlaroacetic Açid	1,00	u,¥94			k9%	o0 - 150	6112666	11/15/06 14:07
TCLP Volutile Organic Compound	is by EPA Method 1311	/8260B						
6112757-B\$1	<b>,</b>							
Benzene	Su.0	47.1		uu/L	94%	80 - 129	6112757	11/15/06 20:49
2-Butanona	250	340		4½/L	96%	72 - 132	6112757	11/15/86 20:49
Curbon Tetrachloride	50.0	30.0		ارين. L	101%	66 - 147	6112757	11/15/06 20:49
Chlorobenzene	50.0	48.2		uy/l.	96%	N3 - 119	6112757	11/15/06 20:49
Chloroferus	50,0	48,3		uy'L	97%	77 - 12K	6112737	11/15/06 20:49
1,2-Dichlornethune	5u.0	47.7		ug/L	95%	78 - 126	6112757	11/15/06 20:49
1,1-Dichteroothene	50.0	40.8		սբ/ե.	94%	77 - 134	6112757	11/15/06 20:49
Tetrachioroethese	\$0,0	50.2		ليوں/L	100%	KI - 124	6112757	11/15/06 20:49
Triphloroethene	50.0	48.0		uլք/L	ዓሉ%	77 - 134	6112757	11/15/06 20:49
Viayi chloride	<b>30.0</b> 2	50,3		11g/L	10176	55 - 150	0112757	11/15/06 20:49
Surrogate: 1,2-Dichlornethane-d4	50.0	49,3			411%	62 - 142	6112757	11/15/06 20:49
Surrogaie: Dihmmofluoromethune	50.u	47.7			<b>95%</b>	78 - 123	6112757	11/15/06 20:49
Swyn)gate: Taluene-els	50.u	48.0			90%	79 - 120	6112757	11/15/06 20:49
Surrogue: 4-Brownfluorchenzene	\$0.u	49.1			98%	75 - 133	6112757	11/15/06 20:49
TCLP Semivolatile Organic Compo	unds by EPA Method 1	311/8270C						
6112655-BS1	•							
Cresol(s)	0,400	0.276		mg/L	69%	44 - 116	6112655	11/16/06 15:11
1.4-Dichlorobenzeue	0,200	0.143		mg/L	72%	28 - 95	6112655	11/10/06 15:11
2.4-Dinitrotoluene	0.200	0.163		nıg/L	82%	59 - 125	6112655	11/16/06 15:11
Hexachlorobonzono	0.200	0.174		rag/L	87%	52 - 125	6112655	11/16/06 15:11
Hoxadalurahuudiene	0.200	0.158		mg/L	79%	24 - 102	6112655	11/16/06 15:11
riexpehioroethane	0.200	0.168		me/L	84%	28 - 92	6112655	11/16/06 15:11



2960 Foster Crospinos Road Numitrities, TN 37204 1800-765-0980 1 Fax 619-726-2404

Client lina Ba, LTD (3130)

612 E. Murray Orive

Fermington, NM 87401

Ann Jeff Engels

Work Order:

NPK 1623 1

Project Name:

tina Ba, LTD 0611010

Project Number: Received:

11/10/06 07:50

## PROJECT QUALITY CONTROL DATA LCS - Cont.

Analyto	Knawn V:4,	Analyzed Val	. 0	Units	% Rec.	Target Range	Batch	Analyzed Disse/Fime
TCLP Semivolatile Organic Compu	ounds by EPA Method	1311/8270C						
6112655-BS1								
Nitrobouzene	0.260	0.141		n⊭L	70%	45 - 111	n112655	11/16/06 15:11
Pontachturophenol	0.200	0.159		rng/L	84%	44 - 17A	6112655	11/16/0s 15:11
Pycidino	v.20 <del>0</del>	0.0605		m _e /i.	30%	12 - X2	6112655	11/10/06 15:11
2.4.6-Trichtorophunot	0.200	0.152		mg/L	76%	53 - 11ú	n112655	11/16/06 15:11
2.4.5-Trichlorophenot	0.200	0.145		nig/L	\$2%	55 - 120	6112055	11/16/06 15:11
2-Methylphenol	0.200	0.135		m _e /L	68%	15 - 90	o112655	11/16/06 15:11
3/4-Methylphenoi	0.200	U.14U		mg/l.	70%	4 . 99	6112655	11/16/06 15:11
Surregue: Terphenel-114	ถ, (งิน	0.0759			76%	24 - 144	6112633	11/16/06 15:11
Surregute: 2.4.6-Tribromophenal	0.100	0.0796			KU%	40 - 161	6112655	11/16/06 15:11
Surrogute: Phenol-15	D. 100	0.0418			42%	11 - 76	6112655	11/16/06 15:11
Surrogue: 2-Finornhiphenyl	0.100	0.0760			76%	30 - 120	6112055	11/16/06 15:11
Surrogute: 2-Flauraphenot	0.100	0.0517			\$2%	20 - KG	6112655	11/16/06 15:11
Surrugate: Nitrobenzene-d5	0.100	0.0689			69%	24 - 125	6112655	11/16/06 15:11
TCLP Pesticides by EPA Method 13	311/8081A							
6112650-BS1								
gumna-BHC (Lindane)	0.0100	0,00812		mg/L	K1%	48 - 142	6112650	11/14/06 19:56
Radrin	0.0100	0.00841		my/L	84%	43 - 165	6112650	11/14/06 19:56
Hopiachior	0.0100	0,(X)F44		mg/L	84%	30 - 134	6113650	11/14/06 19:56
Hapuchlar epoxide	0.0100	0.00853		mg/L	K5%	47 - 140	6112650	11/14/06 19:56
Methoxychian	0.0100	0,00677		mg/L	6×%	40 - 145	61126SU	11/14/06 19:56
Surroguie: Tetrochloro-meta-xylene	0,00250	0,00251		•	100%	40 - 127	o112650	11/14/06 19:56
Surrugute: Decuchturubiphonyt	0.00250	0.04259			104%	25 - 144	6) 12650	11/14/06 19:50
5112650-BS2								
Chlordane	0.6500	0.0640		រោដ្ឋ/L	126%	70 - 1 K4	0112050	11/14/06 20:11
Toxaphone	u.100	0.0919		mg/L	92%	85 - 172	6112650	11/14/06 20:11
Surrogan: Tetrachtara-meta-xylene	0.00250	0.00281			112%	46 - 127	6112050	11/14/06 20:11
Surregute: Decachlarahiphenyl	0.00250	0,00284			114%	25 - 144	6112650	11/14/06 20:11



2060 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 815-726-3404

Client lina 8a, LTD (3130)

612 E. Murray Drive

Fannington, NM 87401

Ann Jeff Engels

Work Order:

NPK1622

Project Name:

lina Ba, LTO 0611010

Project Number: Received:

11/10/06 07:50

## PROJECT QUALITY CONTROL DATA LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Unite	Spike Cone	₩ Rac.	Taryot Range	מיוא	Limir	Barch	Sample Duplicated	Analyzed Date/Time
TCLP Metals by 6000/7000 Se	ries Methods											
6112494-BSD1												
Mereury		0.0200		møL	0.0200	HOUY.	7× - 124	l	22	ù1124 <b>9</b> 4		11/14/06 11:23
6112564-B\$D1												
Arsenic		10.4		mg/L	10,01	104%	AO - 120	5	30	6112564		11/13/06 14:02
Burium		108		ma/ L	160	105%	80 - 120	3	20	6112564		11/13/06 14:02
Cadmiun		10.4		mg/L	(0.0	104%	80 - 120	5	20	6113364		11/13/06 14:02
Chromium		50.5		nıy∕L	50.0	101%	¥0 - 120	5	30	6112564		11/13/06 14:02
Land		51.0		mg/L	50.6	102%	80 - 120	ŝ	20	6112564		11/13/06 14:02
Scienium		10.3		ng/L	(0,0	103%	d0 - 120	5	30	6112504		11/13/06 14:02
Silva		4,85		ing/L	10.0	98%	80 - 120	4	20	6112564		11/13/06 14:02
TCLP Semivolutile Organic Co 6112655-BSD1 Cresol(s)	ompounds by EFA	0.262	311/62/		(1)-00	ሰና‰	44 - 116	5	50	6112633		il/là/dn (5:3x
•				mg/L	0.400	ሰሰ%	44 - I lá	.5	50	6112633		11/16/0n 15:38
1.4-Dichlornbenzene		0.0697	ĸ	17187, F	(1 <u>.2(</u> w	35%	28 - 95	64	15	G112n55		11/10/06 15:38
2.4-Dinisrotologia		0.154		ıng∕L	6.200	77%	59 - 125	٨	33	6112655		11/16/On 15:3H
Hexachlorobenzene		0.162		ing/L	0.200	X 1%	52 - 125	7	19	6112655		11/16/06 15;3K
Hexachlorobutadiene		0.0954	R	m <i>u</i> /1.	0,2(4)	48%	24 - 102	49	29	6112n55		11/16/06 15:38
Hecsehloroothane		0.0710	R	באיינוני L	0,200	36%	2× - ×2	81	37	61 12a55		11/16/06 15:38
Nitrobenkene		0.132		ເດ _ຢ ∕1₋	0.200	66%	45 - 111	7	2.3	6112655		11/16/06 15:3%
Pentachlorophenol		U.13X		mg/L	u.200	79%	48 - 139	7	50	6112655		11/16/06 15:38
Pyridine		0.0950		mg/L	6.200	48%	13 - 82	44	50	6112635		11/16/06 15:38
2.4.6-Tricksturuphoaut		0.14K		mg/L	0.200	74%	53 - 116	3	รับ	6112655		11/16/06 15:38
2,4,5-Tricillarophonal		0.155		n,tat, Γ	v.200	78%	55 - 120	6	50	6112655		11/10/06 15:38
2-Mediylphonol		0.136		ոդչ∕∟	0.200	<b>65%</b>	13-40	4	52	6112655		11/16/06 15:38
3/4-McWylphenol		0.132		mu/L	6.2(N)	66%	4 - 99	6	54	6112055		11/16/06 15:38
urrogate: Terphenyl-414		0.0720		ואאַ√L	U. LOO	72%	29 - 149			6112655		11/16/06 15;3X
urrogute: 2,4,6-Tribromophenut		0.0734		רוּשׁוּ	6,100	73%	40 - 161			6112655		11/16/06 15:38
irrigue: Phenol-d5		0.0364		my'L	44 ( (22)	36%	11 - 76			6112655		11/14/06 15:38
iaregule: 2-Fluoribiphwild		0.0723		mg/L	WIN	72%	30 - 120			6112655		11/16/06 15:3K
urrogute: 2-Fluorophenul		0.0489		ן/שַווו.	0.160	49%	20 - 86			6112055		11/16/06 15:38
arrogute: Nitrohenzene-dS		0.0656		m⊯L	0.100	66%	24 - 125			6112n55		11/16/06 15:38

# Test America ANALYTICAL TESTING COMPORATION

2980 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-720-3404

Client line Bo. LTD (3130)

613 E. Murray Drive

Farmington, NM k7401

Attn Jeff Engels

Work Order:

NPK 1622

Project Name:

lina Ba, LTD 0611010

Project Number: 06 Received: 11

11/10/06 07:50

### PROJECT QUALITY CONTROL DATA

### TCLP Metals by 6000/7000 Series Methods  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12564-MS1  ### 12		Mutrix Spike												
Marcury   No   0,0206   mg/L   0,0206   10356   8.1   10   101244   NPK   119-01   119-06   119-06   119-06   101-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06   105-06	Analyte	Orig. Vol.	MS Val	Q	Units	Spike Cone	K Rec.	•	Bauch	•	Analyzed Date/Time			
### PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECONS   PATECON	TCLP Metals by 6000/7000 Serie	s Methods												
ST12564-MS1														
Archeric   S.AR	Mercury	ND	0.020á		mg/L	0.0200	103%	63 - 13K	61 (2444	NPK (319-0)	11/14/06 11:27			
Barian	6112564-M\$1													
Calmium	Arsenie	3,88	16.4		mg/L	10.0	105%	75 - 125	6112564	NPK1319-01	11/13/06 14:11			
Clusterinan   Quilibro   My   My   My   My   My   My   My   M	Barium	Q. 164	106		mg/L	100	106%	75 - 125	61 (2564)	NPK1319-01	11/13/06 14:11			
Lead 0.010700 50.1 mg/L 50.10 100%, 75 - 125 6112564 NPK 1319-01 11/1306 142 5450000000000000000000000000000000000	Cadmion	0.00600	10,1		ալլ/Լ	10,0	101%	75 - 125	611236-1	NFK1319-01	11/13/06 14:11			
Scientium   D.O.   10.4   mg/L   10.0   10.9%   75 - 125   6112564   MPK1314-01   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306   14:15167   11/1306	Cluomiun	0860.0	49.0		mg/L	50.0	98%	75 - 125	6113264	NFK   319-0	11/13/06 14:11			
Silver 0,0/40 9,82 mg/l, 10,0 98% 75 - 125 8112561 NPK (3) 9-40 121/1006 14:1  TCLP Chlorinuted Herbicides by EPA Method 8151  611266-MS1 2,4-D ND 0,547 mg/L 1,00 65% 33 . 142 611266 NPK (129-01 17/1506 14:1 2,4-SP (Silvex) ND 0,547 mg/L 1,00 55% 12 - 125 611266 NPK (129-01 17/1506 14:1 2,4-SP (Silvex) ND 0,547 mg/L 1,00 55% 12 - 125 611266 NPK (129-01 17/1506 14:1 2,4-SP (Silvex) ND 0,547 mg/L 1,00 55% 12 - 125 611266 NPK (129-01 17/1506 14:1 2,4-SP (Silvex) ND 0,547 mg/L 1,00 55% 12 - 125 611266 NPK (129-01 17/1506 14:1 2,4-SP (Silvex) ND 0,447 mg/L 0,500 85% 58 - 160 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,4416 mg/L 0,500 85% 58 - 160 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,446 mg/L 0,500 85% 12 - 122 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,446 mg/L 0,500 89% 52 - 158 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,446 mg/L 0,500 89% 52 - 158 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,446 mg/L 0,500 89% 52 - 158 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,424 mg/L 0,500 89% 52 - 158 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,424 mg/L 0,500 89% 52 - 158 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 78% 59 - 169 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 78% 59 - 169 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 79% 58 - 165 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 79% 58 - 165 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 97% 78 - 165 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 97% 78 - 165 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 97% 78 - 165 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 97% 78 - 165 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 97% 78 - 165 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 97% 78 - 165 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 97% 78 - 165 6112757 NPK (135-01 17/1606 04:2 2-Bunanoa ND 0,407 mg/L 0,500 97% 78 - 165 6112757 NPK (135-01 17/1	Load	0.00700	50,1		ing/L	50.0	100%	75 - 125	6112564	NPK1319-01	11/13/06 14:11			
### TCLP Chlurinuted Herbicides by EPA Method 8151 6112668-MS1 2.4-D ND 0.654 mg/L 1.00 65% 33 - 142 6112666 NPK129-01 11/15/06 18:1 2.4-3-TP (Kilves) ND 0.547 mg/L 1.00 55% 32 - 123 6112666 NPK129-01 11/15/06 18:1 2.4-3-TP (Kilves) ND 0.547 mg/L 1.00 55% 32 - 123 6112666 NPK129-01 11/15/06 18:1 2.4-3-TP (Kilves) ND 0.476 mg/L 1.00 55% 32 - 123 611266 NPK129-01 11/15/06 18:1 2.4-3-TP (Kilves) ND 0.476 mg/L 0.500 85% 58 - 160 6112757 NPK129-01 11/15/06 18:1 2.4-3-TP (Kilves) ND 0.427 mg/L 0.500 85% 58 - 160 6112757 NPK129-01 11/16/06 18:2 2.4-3-TP (Kilves) ND 0.427 mg/L 0.500 85% 58 - 160 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.416 mg/L 0.500 85% 58 - 130 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.416 mg/L 0.500 85% 49 - 182 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.417 mg/L 0.500 85% 49 - 182 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.416 mg/L 0.500 85% 58 - 130 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.416 mg/L 0.500 85% 58 - 130 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.424 mg/L 0.500 85% 59 - 160 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.436 mg/L 0.500 75% 59 - 160 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.436 mg/L 0.500 75% 58 - 165 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.446 mg/L 0.500 75% 58 - 165 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.446 mg/L 0.500 75% 58 - 165 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.446 mg/L 0.500 75% 58 - 165 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.446 mg/L 0.500 75% 59 - 160 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.446 mg/L 0.500 75% 59 - 160 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.446 mg/L 0.500 75% 58 - 165 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.446 mg/L 0.500 75% 59 - 160 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.446 mg/L 0.500 75% 59 - 160 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP (Kilves) ND 0.446 mg/L 0.500 75% 75 - 133 6112757 NPK133-01 11/16/06 04:2 2.4-3-TP	Setenium	0.0161	10.4		ing/L	0,01	104%	75 - 125	611256+	NPK1319-01	11/13/06 14:11			
1.00	Silver	0,0340	y.K2		mg/[,	10.0	98%	75 - 125	R113204	MBK 1314-01	11/13/06 14:11			
1.00	TCLP Chlorinated Herbicides by	EPA Method 81	51											
2.4.5-TP (Silves) ND 0.547 mg/L 1.00 s55% 32 - 125 6112666 NPK 1299-01 11/15/06 18:1  Surrayane: Dichlaroucetic steid 0.876 mg/L 1.00 s874 od - 150 6112/66 NPK 1299-01 11/15/06 18:1  TCLP Volatile Organic Compounds by EPA Method 3311/82608  6112757-MS1  Renowa ND 0.427 mg/L 0.500 85% 58 - 160 6112/57 NPK 1595-01 11/16/06 04:2  2-Buinnone ND 0.416 mg/L 0.500 83% 49 - 182 6112/57 NPK 1595-01 11/16/06 04:2  Carbon Tetrachloride ND 0.416 mg/L 0.500 83% 49 - 182 6112/57 NPK 1595-01 11/16/06 04:2  Chlorobonicane ND 0.4417 mg/L 0.500 83% 70 - 142 6112/57 NPK 1595-01 11/16/06 04:2  Chlorobonicane ND 0.4416 mg/L 0.500 85% 52 - 158 6112/57 NPK 1595-01 11/16/06 04:2  1.1-Dichlorosthine ND 0.424 mg/L 0.500 85% 52 - 158 6112/57 NPK 1595-01 11/16/06 04:2  1.1-Dichlorosthine ND 0.391 mg/L 0.500 85% 52 - 158 6112/57 NPK 1595-01 11/16/06 04:2  Tetrachlorosthine ND 0.390 mg/L 0.500 78% 59 - 169 6112/57 NPK 1595-01 11/16/06 04:2  Tetrachlorosthine ND 0.391 mg/L 0.500 78% 59 - 169 6112/57 NPK 1595-01 11/16/06 04:2  Tetrachlorosthine ND 0.407 mg/L 0.500 78% 59 - 169 6112/57 NPK 1595-01 11/16/06 04:2  Surrayane: 1.1-Dichlorosthine-std 46.2 mg/L 0.500 77% 61 - 150 6112/57 NPK 1595-01 11/16/06 04:2  Surrayane: Dichlorosthine-std 48.1 mg/L 0.500 92% 58 - 165 6112/57 NPK 1595-01 11/16/06 04:2  Surrayane: Dichlorosthine-std 48.1 mg/L 0.500 92% 78 - 120 6112/57 NPK 1595-01 11/16/06 04:2  CCLP Pesticides by EPA Method 1311/8081A  CCLP Pesticides by EPA Method 1311/8081A  CCLP Pesticides by EPA Method 1311/8081A														
Surrogane: Dichlaroacetic stein	2,4-D	ND	0.654		mg/L	1.00	65%	33 - 142	6112666	NPK 1299-01	11/15/06 18:18			
### TCLP Volatile Organic Compounds by EPA Method 1311/82608 ####################################	2.4,5-TP (Silvex)	ND	0.547		mg/L	0.00	55%	32 - 125	6112666	NPK 1399-01	11/15/06 1X;tX			
Benome   ND   0.427   mg/L   0.500   85%   58 - 160   6112757   NPK1535-01   11/16/06   04:22	Surrague: Dichlaroucetic Acid		U.K76		տք∕Ն.	1.00	er44	au - 150	6112066	NPK 1299-01	11/15/06 18:18			
Benome   ND   0.427   mg/L   0.500   85%   58 - 160   6112757   NPK1535-01   11/16/06   04:22	TCLP Volatile Organic Compoun	nds by EPA Meth	od 1311/8260	)B										
2-Butanone:  ND 2.01 mg/L 2.50 N7% 58 - 130 6112757 NPK1535-01 11/16/16 04:2  Carbon Tetrachloride:  ND 0.416 mg/L 0.500 N3% 49 - 182 6112757 NPK1535-01 11/16/16 04:2  Chlorobenscane:  ND 0.417 mg/L 0.500 N3% 49 - 182 6112757 NPK1535-01 11/16/16 04:2  Chlorobenscane:  ND 0.417 mg/L 0.500 N8% 70 - 142 6112757 NPK1535-01 11/16/16 04:2  Chlorobenscane:  ND 0.424 mg/L 0.500 N8% 52 - 158 6112757 NPK1535-01 11/16/16 04:2  L1-Dichlorosthene:  ND 0.391 mg/L 0.500 N8% 59 - 169 6112757 NPK1535-01 11/16/16 04:2  Tetrachlorosthene:  ND 0.393 mg/L 0.500 78% 59 - 169 6112757 NPK1535-01 11/16/16 04:2  Trichlorosthene:  ND 0.393 mg/L 0.500 79% 58 - 165 6112757 NPK1535-01 11/16/16 04:2  Trichlorosthene:  ND 0.407 mg/L 0.500 N1% 38 - 183 6112757 NPK1535-01 11/16/16 04:2  Sitrogate: 1.3-Dichlarosthane-state:  46.2 mg/L 50.0 92% 62 - 142 6112757 NPK1535-01 11/16/16 04:2  Sitrogate: 1.3-Dichlarosthane-state:  46.1 mg/L 50.0 92% 62 - 142 6112757 NPK1535-01 11/16/16 04:2  Sitrogate: Ditrimmigliarimmethane:  46.1 mg/L 50.0 92% 62 - 142 6112757 NPK1535-01 11/16/16 04:2  Sitrogate: Ditrimmigliarimethane  47.1 mg/L 50.0 92% 78 - 133 6112757 NPK1535-01 11/16/16 04:2  CCLP Pesticides by EPA Method 1311/8081A  ***T12650-MS1**  pamma-BHC (Lindane) ND 0.00823 mg/L 0.0100 82% 37 - 149 6112650 NPK1534-01 11/14/06 20:26  Endrin ND 0.00823 mg/L 0.0100 86% 32 - 169 6112650 NPK1534-01 11/14/06 20:26	6112757-MS1													
Carbon Tetraehloride ND 0.416 mg/L 0.500 83% 49-182 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:22 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/16/06 04:24 6112757 NPK1535-01 11/	Benzene	ND	0.423		mg/L	0.500	H5%	5x - 160	6112757	NPK 1535-01	11/16/06 04:24			
Chlorobenzene ND 0.417 mg/L 0.50kl 83% 70 - 142 6112757 NPK1535-01 11/16/06 04:2 Chlorobenzene ND 0.446 mg/l 0.50b 89% 52 - 158 6112757 NPK1535-01 11/16/06 04:2 1.2-Dichlorosihane ND 0.424 mg/L 0.50b 85% 52 - 153 6112757 NPK1535-01 11/16/06 04:2 1.1-Dichlorosihane ND 0.391 mg/L 0.50b 75% 59 - 169 A112757 NPK1535-01 11/16/06 04:2 Tetrachlorosihane ND 0.390 mg/L 0.50b 77% 61 - 156 6112757 NPK1535-01 11/16/06 04:2 Tetrachlorosihane ND 0.391 mg/L 0.50b 77% 61 - 156 6112757 NPK1535-01 11/16/06 04:2 Trichlorosihane ND 0.393 mg/L 0.50b 79% 58 - 165 6112757 NPK1535-01 11/16/06 04:2 Surreguie: 1.3-Dichlorosihane ND 0.407 mg/L 0.50b 81% 38 - 183 6112757 NPK1535-01 11/16/06 04:2 Surreguie: 1.3-Dichlorosihane-sid 46.2 ug/L 50.0 93% 62 - 142 6112757 NPK1535-01 11/16/06 04:2 Surreguie: Ditrimugliarimethane 46.1 ug/L 50.0 93% 62 - 142 6112757 NPK1535-01 11/16/06 04:2 Surreguie: Ditrimugliarimethane 48.1 ug/L 50.0 93% 62 - 142 6112757 NPK1535-01 11/16/06 04:2 Surreguie: Ditrimugliarimethane 48.1 ug/L 50.0 93% 62 - 142 6112757 NPK1535-01 11/16/06 04:2 Surreguie: Altimoreliarimethane 48.1 ug/L 50.0 93% 62 - 142 6112757 NPK1535-01 11/16/06 04:2 Surreguie: Altimoreliarimethane 48.1 ug/L 50.0 93% 70 - 120 6112757 NPK1535-01 11/16/06 04:2 Surreguie: Altimoreliarimethane 47.1 ug/L 50.0 93% 70 - 120 6112757 NPK1535-01 11/16/06 04:2 Surreguie: Altimoreliarimethane 47.1 ug/L 50.0 93% 70 - 120 6112757 NPK1535-01 11/16/06 04:24 Surreguie: Altimoreliarimethane 47.1 ug/L 50.0 93% 70 - 120 6112757 NPK1535-01 11/16/06 04:24  FCLP Pesticides by EPA Method 1311/8081A Surreguie: Altimoreliarimethane ND 0.00823 ug/L 0.0100 85% 32 - 169 6112650 NPK1534-01 11/16/06 20:26  Endrin ND 0.00823 ag/L 0.0100 86% 32 - 169 6112650 NPK1534-01 11/16/06 20:26	2-Виниююс	ND	2.01		m _t /L	2.50	80%	58 - 139	6112757	NPK 1333-01	11/16/06 04:24			
Chlorotorm ND 0.446 mg/l. 0.300 k9% 52 - 15x 6112757 NPK1335-01 11/16/06 04:24  1.2-Dichlorochane ND 0.424 mg/L 0.500 k5% 52 - 15x 6112757 NPK1335-01 11/16/06 04:24  1.1-Dichlorochane ND 0.391 mg/L 0.500 78% 59 - 169 A112757 NPK1335-01 11/16/06 04:24  Tetrachlorochane ND 0.386 mg/L 0.300 77% 61 - 150 6112757 NPK1335-01 11/16/06 04:24  Tetrachlorochane ND 0.393 mg/L 0.500 79% 58 - 165 6112757 NPK1335-01 11/16/06 04:24  Trichlorochane ND 0.393 mg/L 0.500 79% 58 - 165 6112757 NPK1335-01 11/16/06 04:24  Surragate: 1,3-Dichlarochane-tdd 46.2 ug/L 50.0 92% 62 - 142 6112757 NPK1335-01 11/16/06 04:24  Surragate: Dibracqlaromethane 46.1 ug/L 50.0 92% 62 - 142 6112757 NPK1335-01 11/16/06 04:24  Surragate: Thinocq-l/N 48.4 ug/L 50.0 97% 79 - 120 6112757 NPK1335-01 11/16/06 04:24  FCLP Pesticides by EPA Method 1311/8081A  Sirragate: 4-Bramajharobenzene 47.1 ug/L 50.0 97% 79 - 120 6112757 NPK1335-01 11/16/06 04:24  FCLP Pesticides by EPA Method 1311/8081A  Sirragate: 4-Bramajharobenzene 47.1 ug/L 50.0 97% 79 - 120 6112757 NPK1535-01 11/16/06 04:24  FCLP Pesticides by EPA Method 1311/8081A  Sirragate: 4-Bramajharobenzene 47.1 ug/L 50.0 97% 75 - 133 6112757 NPK1535-01 11/16/06 04:24  FCLP Pesticides by EPA Method 1311/8081A  Sirragate: 4-Bramajharobenzene 47.1 ug/L 50.0 97% 75 - 133 6112757 NPK1535-01 11/16/06 04:24  FCLP Pesticides by EPA Method 1311/8081A  Sirragate: 4-Bramajharobenzene 47.1 ug/L 50.0 97% 75 - 133 6112757 NPK1535-01 11/16/06 04:24	Carbon Tetrachloride	ND	0.416		mg/L	0.500	83%	49 - 182	6112757	NPK1535-01	11/16/06 04:24			
1.2-Dichlorosihane ND 0.424 ing/L 0.500 85% 52 - 133 6112757 NPK1535-01 11/16/06 04:22 1.1-Dichlorosihane ND 0.391 ing/L 0.500 78% 59 - 169 6112757 NPK1535-01 11/16/06 04:22 Tetrachlorosihane ND 0.386 ing/L 0.500 77% 61 - 156 6112757 NPK1535-01 11/16/06 04:22 Trichlorosihane ND 0.393 ing/L 0.500 79% 58 - 165 6112757 NPK1535-01 11/16/06 04:22 Trichlorosihane ND 0.393 ing/L 0.500 NI% 38 - 165 6112757 NPK1535-01 11/16/06 04:22 Surrogate: 1,3-Dichlarosihane-idd 46.2 ing/L 50.0 92% 62 - 142 6112757 NPK1535-01 11/16/06 04:23 Surrogate: Dibromajharomethane 46.1 ing/L 50.0 92% 62 - 142 6112757 NPK1535-01 11/16/06 04:23 Surrogate: Talmangharomethane 48.4 ing/L 50.0 97% 79 - 120 6112757 NPK1535-01 11/16/06 04:24 Surrogate: Talmangharobenzene 47.1 ing/L 50.0 97% 79 - 120 6112757 NPK1535-01 11/16/06 04:24 FCLP Pesticides by EPA Method 1311/8081A S112650-MS1 gamina-BHC (Lindane) ND 0.00823 ing/L 0.0100 82% 37 - 149 6112650 NPK1534-01 11/16/06 20:26	Chlutobenzene	ND	0.417		1337.F	O. \$(%)	#3%	70 - 142	ú112757	NPK1535-01	11/16/06 04:24			
1.1-Dichlarmellione	Chloroform	ND	U.446		mg/l.	U. SU()	89%	52 - 15X	6112757	NPK (535-0)	Li/Id/0ri 04:24			
Tevachlorociticis ND 0.386 mg/L 0.500 77% 61-150 6112757 NPK1335-01 11/16/06 04:24  Trichlorociticis ND 0.393 mg/L 0.500 79% 5K-165 6112757 NPK1335-01 11/16/06 04:24  Vinyl chloride ND 0.407 mg/L 0.500 M1% 3K-183 6112757 NPK1535-01 11/16/06 04:24  Surrogate: 1,3-Dichlorocitiune-dd 46.2 mg/L 50.0 92% 62-142 6112757 NPK1535-01 11/16/06 04:24  Surrogate: Dibromofluorumethane 46.1 mg/L 50.0 92% 7K-123 6112757 NPK1535-01 11/16/06 04:24  Surrogate: Talmone-dK 48.4 mg/L 50.0 97% 79-120 6112757 NPK1535-01 11/16/06 04:24  Surrogate: 4-Bromofluorubenzene 47.1 mg/L 50.0 94% 75-133 6112757 NPK1535-01 11/16/06 04:24  FCLP Pesticides by EPA Method 1311/8081A  S112650-MS1  gamina-BHC (Lindane) ND 0.00823 mg/L 0.0100 85% 12-169 6112650 NPK1534-01 11/14/06 20:26	1,2-Dichloroethane	พับ	0.424		ıng/L	0.500	K5%	52 - 153	6112757	NPK 1335-01	11/16/06 04:24			
Trichloroothane ND 0.393 mg/L 0.500 79% 5K - 165 6112757 NPK1535-01 11/16/06 04:24  Vinyl chloride ND 0.407 mg/L 0.500 N1% 3K - 183 6112757 NPK1535-01 11/16/06 04:24  Surrogate: 1,3-Dichlaroethane-ild 46.2 ug/L 50.0 93% 62 - 142 6112757 NPK1535-01 11/16/06 04:24  Surrogate: Dibronoglascomethane 46.1 ug/L 50.0 92% 7K - 123 6112757 NPK1535-01 11/16/06 04:24  Surrogate: Taluenc-ilk 48.4 ug/L 50.0 97% 79 - 120 6112757 NPK1535-01 11/16/06 04:24  Surrogate: 4-Bronoglascobenzene 47.1 ug/L 50.0 97% 75 - 133 6112757 NPK1535-01 11/16/06 04:24  FCLP Pesticides by EPA Method 1311/8081A  S112650-MS1  gamina-BHC (Lindane) ND 0.00823 ug/L 0.0100 82% 37 - 149 6112650 NPK1534-01 11/14/06 20:26  Endrin ND 0.00863 mg/L 0.0100 86% 32 - 169 6112650 NPK1534-01 11/14/06 20:26	1,1-Dichlornethene	מא	0.391		mg/L	0,500	78%	59 - 169	6112757	NPK1535-01	11/16/06 04:24			
Vinyl chloride ND 0.407 mg/L 0.500 H1% 3K - 183 6112757 NPK1535-01 11/16/06 04:24  Surrogate: 1.3-Dichlaroethane-ald 46.2 mg/L 50.0 93% 62 - 142 6112757 NPK1535-01 11/16/06 04:24  Surrogate: Dibranaflusramethane 46.1 mg/L 50.0 92% 7K - 133 6112757 NPK1535-01 11/16/06 04:24  Surrogate: Talicac-alk 48.4 mg/L 50.0 97% 79 - 120 6112757 NPK1535-01 11/16/06 04:24  Surrogate: 4-Bromaflusrabenzene 47.1 mg/L 50.0 94% 75 - 133 6112757 NPK1535-01 11/16/06 04:24  FCLP Pesticides by EPA Method 1311/8081A  S112650-MS1  gamma-BHC (Lindane) ND 0.00823 mg/L 0.0100 82% 37 - 149 6112650 NPK1534-01 11/14/06 20:26  Endrin ND 0.00863 mg/L 0.0100 86% 32 - 169 6112650 NPK1534-01 11/14/06 20:26	Tetrachloroctions	ND	0.386		mg/L	0.500	77%	61 - 150	6112757	NPK1335-01	11/10/06 04:24			
Surrogate: 1,3-Dichlaroethune-ild  46.2 ug/L 50.0 93% 62-142 6112757 NPK1535-01 11/16/06 04:24  Surrogate: Dibromofluoromethune  46.1 ug/L 50.0 92% 78-123 6112757 NPK1535-01 11/16/06 04:24  Surrogate: Taluene-ilk  48.4 ug/L 50.0 97% 79-120 6112757 NPK1535-01 11/16/06 04:24  Surrogate: 4-Bromofluorobenzene  47.1 ug/L 50.0 94% 75-133 6112757 NPK1535-01 11/16/06 04:24  FCLP Pesticides by EPA Method 1311/8081A  S112650-MS1  gamma-BHC (Lindane)  ND 0.00823 ug/L 6,0100 82% 37-149 6112650 NPK1534-01 11/14/06 20:26  Endrin  ND 0.00863 mg/L 0.0100 86% 32-169 6112650 NPK1534-01 11/14/06 20:26	Trichloroothene	ND	0.393		տը/L	0,500	79%	SK - 165	6112757	NPK 1535-01	11/10/05 04:24			
Surrogate: 1,3-Dichlaroethune-utd   46.2   ug/L   50.0   93%   62 - 142   6112757   NPK1535-01   11/16/06   04:24     Surrogate: Ditrimuflucramethune   46.1   ug/L   50.0   92%   78 - 133   6112757   NPK1535-01   11/16/06   04:24     Surrogate: Taluene-dN   48.4   ug/L   50.0   97%   79 - 120   6112757   NPK1535-01   11/16/06   04:24     Surrogate: 4-Bromoflucrobenzene   47.1   ug/L   50.0   94%   75 - 133   6112757   NPK1535-01   11/16/06   04:24     CLP Pesticides by EPA Method 1311/8081	Vinyl chloride	ИП	0.407		mg/L	0.500	H1%	3K - 183	6112757	NPK (535-0)	11/16/06 04:24			
Shrrogate: Dibromofluoromethane	Surrogute: 1,3-Dichlaroethune-44		46.2		ug/L	50.u	92%	62 - 142	6112757	NPK 1535-01				
Shrrogule: Talhenc-dk	Surrogate: Dittrimoffuncimethane		46.1		ս <u>ս</u> /L	50.0	92%	78 - 123	6112757	NPK 1535-01				
Surroyan: 4-Bromoflianobenzene 47.1 ug/L 50,0 94%, 75 - 133 6112757 NPK 1535-01 11/16/06 ()4:24  FCLP Pesticides by EPA Method 1311/8081 A  F112650-MS1  gamina-BHC (Lindane) ND 0.00823 uig/L 0.0100 82%, 37 - 149 6112650 NPK 1534-01 11/14/06 20:26  Endrin ND 0.00863 mg/L 0.0100 86%, 32 - 169 6112650 NPK 1534-01 11/14/06 20:26	Surraguie: Taluene-dit		48.4			30.0								
### ##################################	Surraguiç: 4-Bromoflicorobenzene		47.1								11/16/06 1)4:24			
### ##################################	CLP Pesticides by EPA Method 1	1311/8081A												
Endrin ND 0.00863 Mg/L 0.0100 86% 32 - 169 6112650 NPK1534-01 11/14/06 20:26	5112650-MS1													
Endrin ND 0.00863 mg/L 0.0100 86% 32 - 169 6112650 NPK1534-01 11/14/06 20:26	gammu-BHC (Lindane)	מא	0.00823		սւբ/L	0,0100	82%	37 - 149	61 12650	NPK1534-01	11/14/06 20:26			
Her die	Endrin	ND	0.00863			0.0100								
	Hopiuchlor	ND	0.00833			0.0100					11/14/06 20:26			



2950 Foster Creighton Road Nashville. TN 37204 * 800-765-0980 * Fax d15-726-3404

Client lina Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Atm Jeff Engels

Work Order:

NPK1622

Project Name: Project Number: tina Ba, LTD 0611010

Received:

11/10/06 07:50

#### PROJECT QUALITY CONTROL DATA

Wight's Spike - Cont.											
Analyte	Orig. Val,	MS Val	Q	Uniu	Splke Cone	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Firms	
TCLP Pesticides by EPA Method 6112650-MS1	1311/8081A										
Heptachlor epoxide	ND	0.(X)849		ing/L	0.0100	K5%	43 - 140	6112650	NPK 1534-U1	11/14/06 20:26	
Methoxychlor	CIN	0.00759		my/1.	0.0100	76%	26 - 151	6113650	NPK1534-01	11/14/06 30:26	
Surrigate: Tetrachluru-meta-xelene	•	0.00247		Jugen	0.00250	99%	46 - 127	6112650	NPK 1534-01	11/14/06 20:26	
Surrogate: Decachlumhiphenyl		0.00274		uig/L	0.00250	110%	25 - 144	6112650	NPK 1534-01	11/14/06 20:26	



2960 Foster Craighton Road Nachville, TN 37204 * 800-765-9980 * Fax 615-726-3404

Client lina Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Attn Jeff Engels

Work Order:

NPK 1622

Project Name: Project Number: lina Ba, LTD 0611010

Received:

11/10/06 07:50

## PROJECT QUALITY CONTROL DATA Matrix Spike Dup

					p	r 						
Analyte	Örig. Val.	Duplicate	ų	Unitz	Spike Cone	% Kee.	Targe Range	RPD L	insit	Úatch	Sample Duplicated	Analyzed Daw/Time
TCLP Metals by 6000/7000 Ser	ics Methods											
6112494-MSD1												
Mercury	מא	0,0200		ing/L	0.0200	100%	63 - 138	3 :	22	6112494	NPK1319-01	11/14/06 11:29
6112564-MSD1												
Amenic	3.Xr	16.0		mg/L	0.137	101%	75 - 125	2 2	20	6112364	NPK(3194))	11/13/06 14:16
therium	0,169	103		mg/L	RO	103%	75 - 125	3 3	30	n l l 2564	NPK1319-01	11/13/06 14;16
Cadmiun	0,60600	4, 7		ıny/L	10.0	ينظينا ا	75 - 125	1 :	2u	6112564	NPK1319-01	11/13/06 14:1n
Chromium	0.0380	48.1		ing/L	\$(1.t)	40%	75 - 125	2 2	žυ	6112564	NPK(3(9-0)	11/13/06 14:16
Luad	0.00700	49.2		ny∕l.	\$61,0	<b>ሃ</b> 8%	75 - 125	2 :	20	6112564	MPK1319-01	11/13/06 14:16
Selenium	10100	10.2		mg/L	10.0	102%	75 - 125	2 :	(6	0112564	NPK1319-01	11/13/06 14:16
Silver	0.0340	9.55		നഇ/1.	(6,0	43%	75 - 125	3 3	20	6112304	NIK(11)9-01	11/13/06 14:16
TCLP Chlorinated Herbicides b	ov EPA Method	8151										
6112666-MSD1	•											
2,4-D	ND	0.672		mg/L	1.00	67%	33 - 142	3 4	K	6112666	NPK1299-01	11/15/06 18:30
2.4.5-TP (Silvex)	ND	0.538		mg/L	1.00	54%	32 - 125		ש	6112666	NPK1299-01	11/15/06 18:30
Surrogate: Dichlaroccette Acid		0.740		nıµ/L	1.00	74%	60 - 150			611266B	NPK 1299-01	11/13/06 18:30
TC) B Volumita Organica Company			/A= / A VA									
TCLP Volatile Organic Compos 6112757-MSD1	ings by EPA M	ethod 1311/	8200R									
Benzene	UN	0.478		mud	(), <b>S(</b> 14)		£11 140			*******		
2-Buttanne	מא			me/L		96%	5% - 160	12 .1		6112757	NPK1535-01	11/16/06 04:49
Carbon Tutrachloride		2.23		m _e yl.	2,50	90%	38 - 139	11 2		6112757	NPK1535-01	11/10/00 01:40
Chlorobenzene	מא	0.541		uit/T	U.SiKI	1(14)%	49 - 182	26 4		6112757	NPK1535-01	11/16/06 64:49
Chioroform	dN	(),490)		เมษ⁄⊾	(J. 5 (M)	98%	70 - 142	16 3		6112757	NPK 1535-01	11/16/06 04:49
1,2-Dichloroothano	מא	0.487		mu/L	U.S(K)	97%	\$2 - 15H	9 2		6112757	NPK 1535-11)	11/10/06 04:49
1.1-Dichtoroothane	ND	0.468		my/L.	().5(n)	N-1%	52 - 153	10 2		6112757	NPK1535-01	11/16/06 04:49
Totaldiloractions	ND	0.467		ເກy∕L	(I.SUAI	93%	59 - 169	18 3		6112757	NPK 1535-01	11/16/06 ()4;49
Trichlorosthene	ND	U.50U		ing/L	m 34K1	HAIY.	61 - 156	26 43		6112757	NPK 1535-01	11/16/06 04:49
Vinyl chloride	ND	0.485		ו/שוח.	0.500	97%	58 - 165	21 39		6112757	NPK (535-0)	11/16/06 (14:49
	מא	0.467		mg/L	(1.518)	9.3%	38 - 1K3	14 3	4	6112757	NPK 1535-01	11/16/06 ()4:49
Surrogate: 1.2-Dichloroethane-da		4K.7		ď <b>K</b> /Γ	\$0,0	9 <b>7%</b>	62 - 142			6112757	NPK 1535-01	11/16/06 (14:49
Surrogute: Dibromofluoromethone		47.5		սg/L	SD,C	95%	78 - 123			6112737	NPK 1535-01	11/16/06 04:49
Surrogate: Taluene-di		47.7		<b>ա</b> բ/L	Su.u	95%	79 - 120			6112757	NPK1535-01	11/1(406-04:49
Surrogae; 4-Bromojluorohenzene		4X.X		ug/L	\$11.61	<b>ሃ</b> ጽ%	75 - 133			6112757	NPK1535-01	11/16/06 04:49
TCLP Pesticides by EPA Method	1 1311/8081A											
6112650-MSD1												
painma-BHC (Lindane)	ND	1),(3(18))K		nig/L	0.0100	81%	37 - 149	2 33		6112650	NPK1534-01	11/14/06 20:41
Seutrin	ND	0.00846		mg/L	9010,0	85%	32 - In9	2 29		6112650	NPK1534-01	11/14/06 20:41
Hepmehlor	ии	0.00826		my/L	0.0100	£3%	2K - 13K	3 38		6113650	NPK1534-01	11/14/06 20:41
Hoptachlor epoxide	מא	0.00829		mg/L	0.0100	83%	43 - 140	2 23		6112650	NPK1534-01	11/14/06 20:41
Methoxyelitar	ND	0.00719		mg/L	0,0100	72%	26 - 151	5 27		6112650	NPK (534-0)	11/14/06 20:41
•	1.0					1 = 74	-0 - 131	- 41		01120Ju		1774704 20:41



2960 Foster Creighton Road Nashville, TN 37204 * 600-765-0080 * Fox G15-726-3404

Client line Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Attn Jeff Engels

Work Order:

NPK 1622

Project Nume: Project Number: lina Ba, LTD 0611010

Received:

11/10/06 07:50

#### PROJECT QUALITY CONTROL DATA Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Parger Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
TCLP Posticides by EPA Method 13	311/8081A											
6112650-MSD1												
Surregule: Tetrachluro-meta-xylene		0,00262		mg/L	0.00250	105%	46 - 127			6112650	NPK 153-1-01	11/14/06 20:41
Surremente: Decurblummingent		0.00278		m./	0.66250	11196	25 - 144			6117450	NUK I CALIII	11/14/06 20mm

## Test ∧ merica

ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client line Ba, LTD (3130)

612 E. Murray Drive

Farmington, NM 87401

Ann Jeff Engels

Work Order: Project Name:

NPK1622 Jina Ba, LTD

Project Number:

0611010

Received:

11/10/06 07:50

#### TCLP REGULATORY LIMITS

Anulyte	Regulatory Lim
1,1-Dichloroethene	0.7
1,2-Dichloroethune	0.5
1,4-Dichlorobenzene	7.5
2.4.5-TP (Silvex)	1
2,4,5-Trichlorophenol	2
2,4,6-Trichlorophenol	400
2,4+D	10
2,4-Dinitrotoluene	0.13
2-Butunone	200
Arsenic	5
Barium	100
Benzene	0.5
Cadmium	1
Curbon Tetrachloride	0.5
Chlordane	0.03
Chlorobenzene	100
Chloroform	6
Chromium	5
Cresol(4)	200
Endrin	0.02
gammu-BHC (Lindane)	0.4
Lieptuchio:	800.0
Heptachlor epoxide	800.0
Hexachlurobenzene	0.13
Hexachlorobutadiene	0.5
Hexachioroethone	3
Lesd	5
Mercury	0.2
Methoxychlor	10
Nitrobenzene	2
Pentuchlorophenol	100
Pyridine	5
Selonium	l
Silver	5
Tetrachloroethene	0.7
Poxaphene	0.5
Trichlorouthene	0.5
Vinyl ebloride	0.2



2960 Fostor Craighton Road Nashville, TN 37204 * 800-755-0980 * Fax 615-726-3404

Client lina Ba, LTD (3130)

612 E. Muray Drive

Farmington, NM 87401

Ann Jeff Engels

Work Order:

NPK1622

Project Number:

tina Ba, LTD 0611010

Received:

11/10/06 07:30

#### DATA QUALIFIERS AND DÉFINITIONS

R The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.

Z5 Due to sample matrix effects, the surrogate recovery was outside acceptance limits. Secondary surrogate recovery was within the acceptance limits.

METHOD MODIFICATION NOTES





BC#

NPK1622

Cooler Received/Opened On: 11/10/06@7:50 1. Indicate the Airbiff Tracking Number (last 4 digits for Fedex only) and Name of Courier below:	2740
Fed-Ex Temperature of representative sample or temperature blank when opened: 5.2 Degree (indicate IR Gun ID#)	ces Celsius
92171982	·
3. Were custody seals on outside of cooler?	YESNUNA
a. If yes, how many and where:	
4. Were the seals intact, signed, and dated correctly?	VES NO NA
5. Were custody papers inside eoxider?	YES NO NA
I certify that I opened the cooler and answered questions 1-5 (jurtal).	
6. Were custody seals on containers: YES NO and Intact	YES NO N
were these signed, and dated correctly?	YESNO.NA
7. What kind of packing material used? Bubblewrap Peanuts Vermiculite	Fonin Insert
Plustic bag Paper Other N	une
8. Cooling process: (Ice ) tee-pack Ice (direct contact) Dry ice	Other None
9. Did all containers arrive in good condition ( unbroken)?	YES Z.NONA
tu. Were all container labets complete (#, date, signed, pres., etc)?	TEBLINONA
11. Did all container labels and tags agree with custody papers?	YES NONA
12. a. Were VOA viats received?	YEY NO. 2NA
b. Was there any observable head space present in any VOA vini?	YESNONA
I certify that I unloaded the cooler and answered questions 6-12 (initial)	M_
13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH lev	el? YES
h. Did the bottle labels indicate that the correct preservatives were used	NONA
If preservation in-house was needed, record standard ID of preservative used here	
14. Was residual chlorine present?	YESNO
I certify that I checked for chloring and pH as per SOP and answered questions 13-14 (intial)	
15. Were custody papers properly filled out (luk, signed, etc)?	723NONA
16. Did you sign the custudy papers in the appropriate place?	MannoNA
17. Were correct containers used for the analysis requested?	SNONA
18. Was sufficient amount of sample sent in each container?	YESNONA
I corpily that I entered this project into LIMS and answered questions 15-18 (intial)	TIL
I certify that I attached a label with the unique LIMS number to each container fintial)	<u> </u>
19. Were there Nau-Conformance issues at logic YES (ND) Was a PIPE generated YES	NO #

1

#### iiná bá

612 F. Murray Drice Farmington, NM 87401 (505) 327-1072

## **CHAIN-OF-CUSTODY RECORD**

Page 1 of i

Sutconlactor:

Test America, Inc.

2960 Foster Creighton Drive Nashville, TN 372C40566

TEL: (800) 765-0980 FAX: (615) 726-3404 NPK1622 11/20/06 23:59

Acct #: 3130SP

09-Nov-06

				Requested Tests								
Sample 10	Matrix	Collection Date	Bottle Type	SW1311	SV/1311/60101	\$W1311/8081	ASW131118150	SW1311/82608	SW1311/82700	SW7470	ز	
			NPK 16	22							_	
0611010-001.A	if A Multiple Pha	11/8/2006 9:10:00 AM	1LAMGU	1 1	1	1	1	, 1	1	į į	j	

Comments: Please analyze one (1) sample for TCLP metals (6010B/7470), Pesticides/Herbiedes, Volatiles, and Semi-volatiles, Thank you,

	Date/Time		Date/Time
Relinquished by: Laleura Centy	11/9/06 16:10	Received by:	11/10/06 7:50 5.2%
Relinquished by:		Received by:	

	Niná bá	CHA	O NIA	F C	USTO	DDY	REC	COF	RD						5571
	(for the's sake) 612 E. Murray Dr. • P.O. Box 2 Phone: (505) 327-1072 • Fax:	2606 • Fa (505) 32	rminglon, 7-1496	, NM 874	499 C	Date	11/8/	oL					Page		of
	Report to: J. J. Acs FROM						PO N	o.:				Jo	b No.:		
EPOF SULTS	Company: 5171 A					٦Ë	Name:								
	Address: (612 E. MURLAY	IRRAY DR.					Company:								
	City: FARMINGTON, NM					SEND INVOICE TO:	Address:								
	Phone: Fax:	En	Email:			1	City:								
Turnaround Time:  10 days (normal)  24-48 hours (100%)  3-5 days (50%)  On ics			Subcontract Yes		NUMBER OF CONTAINERS:	Analysis Requested									
			Ho			<del>                                     </del>									
Sampling Location:  BASIN DISPUSAL							<u></u>								
	Sample Identification	Sa Date	mple Time	Matrix	Pres.	NUM	1/					/_			Lab ID
OIL	1470 OUERFLOW PIT	11/1/10	. 6910	الين	Cool	4									Nallein -a
				<u> </u>											
					ļ		<u> </u>			<u> </u>		1	ļ		
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				-	<del> </del>			<del>                                     </del>	-	-				-	
			+		1	1		-	1	<b>†</b>	T	1	1		
Reli	nquished by:	Date/Time: #14/04 1041		1045	Rece	Received by: ////www					Da	te/Tim	e: 11/6/06 10%		
Relinquished, by:  Date/Time:				Rece	Received by:					Dale/Time:					
Relinquished by: Date/Time:				Rece	leceived by: Date/Time:					e:					
Con	nments:														

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 Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

	TO ALL TO ALL		
1. RCRA Exempt: Non-Exempt: ⊠		4. Generator: Red Willow Production	Company
Verbal Approval Received: Yes No	5. Originating Site: McElvain Compressor	KLVU JEVA-	
2. Management Facility Destination: JFJ Landfarm	ı L.L.C.	6. Transporter:	GEL CONS. D
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o Box 2043 Farmington, NM 87499		8. State: NM	DIST. S
7. Location of Material (Street Address or ULSTR) S-25, T-33N, R-08W			
locat	stes must be accompanied fication of origin. No was wastes delivered are only ture of sand/gravl/engine	by necessary chemical analysis to the classified hazardous by listing the those consigned for transport oil (15W40) from clean-up are CLP, Chain of Custody forms a	o PROVE the or testing will be
SIGNATURE Waste Management Facility Authorized Agent	TITLE: Operations	<u>Manager</u> DATE: <u>12/15/06</u>	į
TYPE OR PRINT NAME: <u>JOEL OWENS</u>		TELEPHONE NO(505)	632-1782
E-MAIL ADDRESS: joel.owens@industrialecosystems.	com		
(This space for State Use) APPROVED BY: BD	TITLE:	DATI	E: 12-26-06
APPROVED BY:	TITLE:	DATI	B Secretary

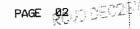
DUPLICATE

INDUSTRIALECOSYSTEMC

12/17/2006 22:08

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# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** Governor Joanna Prukop Cabinet Secretary

Wayne Price Director Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

	1. Generator Name and Address:	2. Destination Name:
	Red Willow Production Company	J.F.J. Landfarm C/O Industrial Ecosystems Inc.
	14933 Hwy 172	#81 CR 3150
	Ignacio, Colorado 81137	Aztec, NM 87410
		Phone # 505-632-1782 Fax No# 505-334-1003
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Market Comments	
	McElvain Compressor	UL- S-25 T-33N R-08W or attach list
		Street Address:
	Attach list of originating sites as appropri	
	4. Source and Description of Waste	
	Mixture of Sand/Gravel/Engine oil (15W	40) from clean up around engine and location.
1 Yam	Akan Samul annuannestina San Dad Withan	Designation of the second of householders of the second in the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of
		Production Company do hereby certify that, according to the Resource
	rvation and Recovery Act (RCRA) and Environment waste is:	nmental Protection Agency's July, 1988, regulatory determination, the above
ucsti j	Ded Waste 15.	
(Chec	( appropriate classification)	
(	appropriate situations	
E	XEMPT oilfield waste	X_NON-EXEMPT oilfield waste which is non-hazardous by characteristic
		A TOTAL POLITICAL MASIC WILLIAM IS NOT TRANSPORTED BY CHARACTERISTIC
		Analysis or by product identification and that nothing has been added to
		Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.
For N	ON-EXEMPT waste the following documentar	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):
For N	X MSDS Information	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.
For N	X MSDS Information X RCRA 8 Hazardous Waste Analysis	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):
For N	X MSDS Information	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):
-	X MSDS Information X RCRA 8 Hazardous Waste Analysis X Chain of Custody	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  tion is attached (check appropriate items): X Other (description) TCLP
This v	X MSDS Information X RCRA 8 Hazardous Waste Analysis X Chain of Custody  vaste is in compliance with Regulated Levels	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):
This v	X MSDS Information X RCRA 8 Hazardous Waste Analysis X Chain of Custody	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  tion is attached (check appropriate items): X Other (description) TCLP
This v	X MSDS Information X RCRA 8 Hazardous Waste Analysis X Chain of Custody  raste is in compliance with Regulated Levels C 3.1 subpart 1403.C and D.	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  tion is attached (check appropriate items): X Other (description) TCLP  of Naturally Occurring Radioactive Material (NORM) pursuant to 20
This v	X MSDS Information X RCRA 8 Hazardous Waste Analysis X Chain of Custody  vaste is in compliance with Regulated Levels	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  tion is attached (check appropriate items): X Other (description) TCLP
This v NMA Name	X MSDS Information X RCRA 8 Hazardous Waste Analysis X Chain of Custody  vaste is in compliance with Regulated Levels C 3.1 subpart 1403.C and D.  (Original Signature):	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):  X Other (description) TCLP  of Naturally Occurring Radioactive Material (NORM) pursuant to 20  Phone Contact: 970-563-5193
This v NMA Name	X MSDS Information X RCRA 8 Hazardous Waste Analysis X Chain of Custody  raste is in compliance with Regulated Levels C 3.1 subpart 1403.C and D.	Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):  X Other (description) TCLP  of Naturally Occurring Radioactive Material (NORM) pursuant to 20  Phone Contact: 970-563-5193
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Status: Final

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Date of Issue: 06-May-2004



# **MATERIAL SAFETY DATA SHEET** Conoco HD Fleet Supreme Engine Oil

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Conoco HD Fleet Supreme Engine Oil

**Product Code:** 

46261

Intended Use:

Heavy Duty Diesel Engine Oil Conoco MSDS #MOTC0090

Synonyms:

Conoco HD Fleet Supreme Engine Oil (AP Region) Conoco HD Fleet Supreme Engine Oil 10W-30 Conoco HD Fleet Supreme Engine Oil 15W-40

Conoco HD Fleet Supreme Engine Oil 20W-50

Chemical Family:

Not Given

Responsible Party:

Conoco Lubricants

A Division of ConocoPhillips 600 N. Dairy Ashford

Houston, Texas 77079-1175

**Customer Service:** 

800-255-9558 800-255-9556

Technical Information:

Information number listed.

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical

# **EMERGENCY OVERVIEW**

24 Hour Emergency Telephone Numbers: Spill, Leak, Fire or Accident Call CHEMTREC:

North America: (800) 424-9300 Others: (703) 527-3887 (collect)

California Poison Control System: (800) 356-3219

Health Hazards/Precautionary Measures: Causes eye and skin initation. Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Keep away from all sources of ignition.

Appearance: Physical Form: Light brown Liquid

Odor:

Light petroleum

NFPA 704 Hazard Class:

**HMIS Hazard Class:** 

Health: Flammability: 1 (Slight) 1 (Slight) Health: Flammability: 1 (Slight) 1 (Slight)

instability:

0 (Least)

Physical Hazards:

0 (Least)

Status: Final

Page 2/8

Date of Issue: 06-May-2004

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONEN	rs				
Component / CAS No:	Percent (%)	ACGIH:	OSHA:	NIOSH:	Other:
Zinc Compound	1-2	NE	NE	NE	
PROPRIETARY					

NON-HAZARDOUS COMPA	DNENTS				
Component / CAS No:	Percent (%)	ACGIH:	OSHA:	NIOSH:	Other:
Lubricant Base Oil (Petroleum) VARIOUS	70 - 80	5mg/m ² TWA 10 mg/m ² STEL		2500 mg/m³ IDLH	as Oil Mist, if Generated 5 mg/m³ NOHSC TWA
Additives PROPRIETARY	20 - 30	NE	NE	NE	

All components are listed on the TSCA inventory.

The base oil for this product can be a mixture of any of the following highly refined petroleum streams: CAS 64741-88-4; CAS 64741-96-4; CAS 64741-97-5; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-55-8; CAS 64742-56-9; CAS 64742-57-0; CAS 64742-62-7; CAS 64742-63-8; CAS 64742-65-0; CAS 72623-85-9; CAS 72623-86-0; CAS 72623-87-1

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM. NE=Not Established

# 3. HAZARDS IDENTIFICATION

## Potential Health Effects:

Eye: Eye irritant. Contact may cause stinging, watering, redness, and swelling.

Skin: Skin irritant. Contact may cause redness, itching, burning, and skin damage. No harmful effects from skin absorption are expected.

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): No harmful effects expected from ingestion.

Signs and Symptoms: Effects of overexposure may include imitation of the nose and throat, imitation of the digestive tract, nausea, and, diarrhea.

Cancer: Inadequate evidence available to evaluate the cancer hazard of this material. See Section 11 for carcinogenicity information of individual components, if any.

Target Organs; No data available for this material.

Developmental: No data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders.

Status: Final

Page 3/8

Date of Issue: 06-May-2004

# 4. FIRST AID MEASURES

Eye: Move victim away from exposure and into fresh air. If initiation or redness develops, flush eyes with clean water and seek medical attention. For direct contact, hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.

Skin; Wipe material from skin, remove contaminated shoes and clothing and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention, if skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild scap and water and, if necessary, a waterless skin cleanser. If imitation or redness develops, seek medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

Notes to Physician: High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. Often these injuries require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury.

Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

# 5. FIRE-FIGHTING MEASURES

## Flammable Properties:

Flash Point:

380°F / 193°C

Test Method:

OSHA Flammability Class: Not applicable

LEL%:

No data

UEL%:

No data

Autoignition Temperature: No data

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily, if water is applied to heated material, it can cause violent foaming and boilover. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

Status: Final

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Date of Issue: 06-May-2004

# 6. ACCIDENTAL RELEASE MEASURES

This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. Notify appropriate federal, state, and local agencies.

## 7. HANDLING AND STORAGE

Handling: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.148. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing of high pressure hydraulic oil equipment.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Storage temperatures above 113°F may lead to thermal decomposition, resulting in the generation of hydrogen sulfide and other sulfur containing gases. Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Use and store this material in cool, dry, well-ventilated areas. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required.

Personal Protective Equipment (PPE):

Status: Final

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Date of Issue: 06-May-2004

Respiratory: Inhalation is not an expected route of exposure. However, a NIOSH certified air purifying respirator with a Type 96 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure-limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible initiation, and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin, Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Appearance: Light brown Liquid

Odor: Light petroleum
Odor Threshold: No data

Odor Threshold:

PH:

No data

Not applicable

Vapor Pressure (mm Hg): <1
Vapor Density (air=1): >1
Boiling Point: No data
Melting/Freezing Point: No data
Solubility in Water: No data
Partition Coefficient (n-octanol/water): No data
Specific Gravity: 0.88
Bulk Density: 7.33

Specific Gravity:

Bulk Density:

Bulk Density Units

Viscosity cSt @ 100°C:

Viscosity cSt @ 40°C;

Evaporation Rate (nBuAc=1):

0.88

7.33

bs/gal

15.1

Viscosity cSt @ 40°C;

115

Flash Point: 380°F / 193°C

Test Method: PM
Flammable/Explosive Limits: No data
Decomposition Temperature: No data

Status: Final

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Date of Issue: 06-May-2004

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to avoid: Can become unstable at elevated temperatures and pressures.

Materials to Avoid (incompatible Materials): Avoid contact with acids and strong exidizing agents.

Hazardous Decomposition Products: Combustion can yield carbon, nitrogen, sulfur, phosphorus, and zinc oxides. Hydrogen sulfide and alkyl mercaptans may also be released. Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 113°F.

Hazardous Polymerization: Will not occur.

# 11. TOXICOLOGICAL INFORMATION

## Lubricant Base Oil (Petroleum) - VARIOUS

Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, hydrotreating, and dewaxing to remove aromatics and improve performance characteristics. None of the oils used are listed as a carcinogen by NTP, IARC, or OSHA.

#### Acute Data:

## Lubricant Base Oil (Petroleum) - VARIOUS

Dermal LD50 = >2 g/kg LC50 = No information available Oral LD50 = >5 g/kg

# Additives - PROPRIETARY

Dermal LD50 = No information available LC50 = No information available Oral LD50 = No information available

## Zinc Compound - PROPRIETARY

Sec. & Sugarage Bligg . P.

Dermal LD50 = No information available LC50 = No information available Oral LD50 = No information available

# 12. ECOLOGICAL INFORMATION

Not evaluated at this time.

Status: Final

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Date of Issue: 06-May-2004

# 13. DISPOSAL CONSIDERATIONS

This material under most intended uses would become used oil due to contamination by physical or chemical impurities. RECYCLE ALL USED Oil. While being recycled, used oil is regulated by 40 CFR 279. Use resulting in chemical or physical change or contamination may also subject it to regulation as hazardous waste. Under federal regulations, used oil is a solid waste managed under 40 CFR 279. However, in California, used oil is managed as hazardous waste until tested to show it is not hazardous. Consult state and local regulations regarding the proper handling of used oil. In the case of used oil, the intent to discard it may cause the used oil to be regulated as hazardous waste.

Contents should be completely used and containers emptied prior to discard. Rinsate may be considered a RCRA hazardous waste and must be disposed of with care and in compliance with federal, state and local regulations. Large empty containers, such as drums, should be returned to the distributor or a drum reconditioner. To assure proper disposal of small empty containers, consult with state and local regulations and disposal authorities.

# 14. TRANSPORTATION INFORMATION

DOT Shipping Description: Not classified as hazardous

Note: Material is unregulated unless in container of 3500 gallons or more, then provisions of 49 CFR Part 130 apply for land shipment.

IMDG Shipping Description: Not regulated

ICAO/IATA Shipping Description: Not regulated

# 15. REGULATORY INFORMATION

# U.S. Regulations:

EPA SARA 311/312 (Title III Hazard Categories)

Acute Health:

Yes

Chronic Health:

No

Fire Hazard: Pressure Hazard: No No

Reactive Hazard:

No

SARA - Section 313 and 49 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372: Zinc Compound 1-2%

- **EPA (CERCLA) Reportable Quantity:** 
  - -None Known-
- CERCLA/SARA Section 302 Extremely Hazardous Substances and TPOs
  - This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372:
  - None Known -
- California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

- None Known -
- Carcinogen identification:

SEP-19-2006 12:31

DIAL OIL COMPANY

505 634 4791

P.017

MSBS Code: 776084

Status: Final

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Date of Issue: 06-May-2004

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

TSCA

All components are listed on the TSCA inventory.

# 16. OTHER INFORMATION

Issue/Revision Date:

06-May-2004

Previous Issue Date:

5/13/2003

**Product Code:** 

46261

Reason for revision:

Formulation Change. SEE SECTION 2.

Previous Product Code:

46261, 46260, 46272

MSDS Code:

776084

Disclaimer of Expressed and Implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

# Green Analytical Laboratories, Inc. 75 Suttle Street Durango, CO 81303

Red Willow Production

PO Box 369

Ignacio, CO 81137

Attention: Andy Young

PROJECT NAME:

**PROJECT NUMBER:** 

SAMPLE I.D.:

McElvain Comp

GAL I.D.:

610-043-01

Date Received: Date Reported: 10/05/06 11/20/06

QC Balches:

Sample Date:

10/05/06

Sample Matrix:

Soil

Units:

mg/L

# **TCLP Metals**

# RESULTS

		REPORT		DATE
PARAMETER	METHOD	LIMIT	RESULT	DILUTION ANALYZED ANALYST
Arsenic	6010B	0.10	<0.10	1
Barlum	6010B	0.01	1.25	1
Cadmium	6010B	0.01	0.01	1
Chromium	6010B	0.01	<0.01	1
Lead	6010B	0.05	<0.05	1
Mercury	7470A	0.0002	<0.0002	1
Selenium	6010B	0.20	<0.20	1
Silver	6010B	0.01	<0.01	1

Nov-20. 2006 11:18AM

970-247-4227

No.7234 P. 4

Green Analytical Laboratories, Inc. 75 Suttle Street Durango, CO 81303

Red Willow Production

PO Box 369

Ignacio, CO 81137

Attention: Andy Young

GAL I.D.:

610-043-01

Date Received: Date Reported: 10/05/06 11/20/06

QC Batches:

PROJECT NAME:

**PROJECT NUMBER:** 

SAMPLE I.D.:

McElvain Comp

- Totals -

Sample Date:

10/05/06

Sample Matrix:

Soil

Unils:

mg/kg

# **RCRA Metals**

# RESULTS

		REPORT	DATE								
PARAMETER	METHOD	LIMIT.	RESULT	DILUTION	<b>ANALYZED</b>	ANALYST					
Arsenic	6010B	10	<10	100							
Barium	6010B	1.0	146	100							
Cadmium	6010B	1.0	2.0	100							
Chromium	6010B	1.0	5.9	100							
Lead	6010B	50	6.6	100							
Mercury	7470A	0.10	0.19	500							
Selenium	6010B	20	<20	100							
Silver	6010B	1.0	<1.0	100							

John Citeen Laboratory Manager

# Green Analytical Laboratories, Inc.

# 3050 METALS SRM

LAB ID#													
610-043	SRM Data												
	SRM	True	SRM %	AccaptanceR									
PARAMETER	Result	Value	Rec	ange									
Arsenic	5.10	5.00	102	90-110 %									
Barium	2.45	2.50	98	90-110 %									
Cadmium	2.48	2.50	99	90-110 %									
Chromium	2.53	2.50	101	90-110 %									
Lead	5.15	5.00	103	90-110 %									
Mercury	0.0021	0.0020	105	90-110 %									
Selenium	10.2	10.0	102	90-110 %									
Silver	0,55	0.50	110	90-110 %									

NA=Data not available

# Green Analytical Laboratories, Inc.

# TCLP METALS SRM

LAB ID#				
610-043		SR	M Data	
	SRM	True	SRM %	AccaptanceR
PARAMETER	Result	Value	Rec	ange
Arsenic	9.93	10.00	99,3	90-110 %
Barium	4.80	5.00	96	90-110 %
Cadmium	4.98	5.00	100	90-110 %
Chromium	2.51	2.50	100	90-110 %
Lead	10.0	10.0	100	90-110 %
Mercury	0.0019	0.0020	95	90-110 %
Selenium	9.94	10.00	99	90-110 %
Silver	0.24	0.25	96	90-110 %

NA=Data not available

Analytical Laboratories, inc.	
Client: Red Willow Product	
Contact Andy Young	_
Address:	
Phone Number: 970-563-5192	_

FAX Number: '970

# CHAIN OF CUSTODY RECORD

Page of

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.
- PO#

Project Name: W

lable 1. - Matrix Type

1 = Surface Water, 2 = Ground Water

3 = Soil/Sediment, 4 = Rinsate, 5 = Oil

S = Waste, 7 = Other (Specify)

GAL JOB #

Semplers Signature:

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^{*} Sample Reject: [ ] Return [ ] Dispose [ ] Store (30 Days)

PAGE 01

# Certificate From Out of State Agency Authorizing Removal of Non-exempt, Non-hazardous Oilfield Waste from Their Jurisdiction to New Mexico

I have reviewed the enclosed information concerning the Non-Exempt, Non-hazardous oilfield waste material from <u>McElvain Compressor</u> and agree that by its description it is non-hazardous as defined by the resource Conservation & Recovery Act (RCRA) and my jurisdiction's rules, regulations or statutes.

- The Material is Non-Exempt oilfield waste.
- The Material is Non-hazardous according to total RCRA8 & TCLP Metals.

# Therefore:

As a representative for the Southern Ute Indian Tribe I have no objection to the material being removed to New Mexico.

Name:

Title.

Date: 10/27/06

Agency Address & Phone:

BIA Southern Ute Agency Ignacio, Colorado

District I
1625 N. French Dr., Hobbs, NM 88240
District III
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 March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ATTROVAL TO ACCEPT	I BOLID WADIE	
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Burlington Resources	
Verbal Approval Received: Yes ⊠ No: ☐  12/15/06 – Charlie-District Supervisor, OCD	5. Originating Site: Reid # 23	
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter: Riley	
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.O. Box 2043 Farmington, NM 87499	8. State: NM	
7. Location of Material (Street Address or ULSTR) S-17, T-28N, R-09W		
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  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 classification approved  All transporters must certify the wastes delivered are only the BRIEF DESCRIPTION OF MATERIAL: Soil generated from a diesel spill release incident. Raw diesel contaminated soil approx. 330 gallons diesel lost on location contaminated soil approx. 340 gallons diesel lost on location contaminated soil approx. 350 gallons diesel lost on location contaminated soil approx. 350 gallons diesel lost on location contaminated soil approx. 360 gallons diesel lost on location contaminated soil approx. 360 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons diesel lost on location contaminated soil approx. 370 gallons d	ecessary chemical analysis to Pussified hazardous by listing or use consigned for transport.  from a completion rig air pac	PROVE the testing will be
SIGNATURE TITLE: Operation  Waste Management Facility Authorized Agent	ns Manager DATE: 12/1	5/2006
TYPE OR PRINT NAME: <u>Joel Owens</u> TELEPHONE NO. <u>(505)</u> 632-1782		
E-MAIL ADDRESS: <u>itowens@industrialecosystems.com</u>		
(This space for State Use)  APPROVED BY: BP  TITLE:  TITLE:	DATE:	12-19-06





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**Bill Richardson** Governor Joanna Prukop **Cabinet Secretary** 

Lori Wrotenbery Director **Oil Conservation Division** 

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address	2. Destination Name:				
Burlington Resources 3401 E 30 th . St.	J.F.J. Landfarm C/O Industrial Ecosystems Inc. #81 CR 3150				
Farmington, New Mexico 87499	Aztec, NM 87410				
1 minington, New Mexico 07477	Phone # 505-632-1782 Fax No# 505-334-1003				
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):				
Reid #23	U- L S- 17 T- 28N R- 09W				
API# 30045074370000	San Juan County, New Mexico				
hBR					
4. Source and Description of Waste					
	mpletion rig air package vandalism incident. Raw diesel				
contaminated soil approx. 300 gailons diesel lost of Industrial.	n location combined with soil impacted. Transporter Riley				
5. Attn: 267993					
5. Atta: 201995					
I, Gregg Wurtz representative for:					
Print Name					
Burlington Resources	do hereby certify that, according to the Resource				
Conservation and Recovery Act (RCRA) and Environmental Protect	ction Agency's July, 1988, regulatory determination, the above				
described waste is: (Check appropriate classification)					
EXEMPT oilfield waste X NON-E	EXEMPT oilfield waste which is non-hazardous by characteristic				
	by product identification				
and that nothing has been added to the exempt or non-exempt non-	-hazardous waste defined above.				
D. NON BURDON d. C.II d	d (all cale ammunulate literaci)				
For NON-EXEMPT waste the following documentation is attached X MSDS Information	Other (description				
RCRA Hazardous Waste Analysis	_outer (description				
Chain of Custody					
•					
This waste is in compliance with Regulated Levels of Naturally	Occurring Radioactive Material (NORM) pursuant to 20				
NMAC 3.1 subpart 1403.C and D.					
Name (Original Signature):					
Title: Env. Rep					
Date: December 15, 2006					
Oil Conservation Division * 1000 R	tio Brazos Road * Aztec, New Mexico 87410				

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# **Conoco**Phillips

# MATERIAL SAFETY DATA SHEET

# No. 2 Diesel Fuel

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 

No. 2 Diesel Fuel

Synonyms:

CARB Diesel TF3; CARB Diesel; CARB Diesel 10% CARB Diesel Ultra Low Sulfur - Dyed and Undyed EPA Low Sulfur Diesel Fuel - Dyed and Undyed EPA Off Road High Sulfur Diesel - Dyed

High Sulfur Diesel Fuel; Low Sulfur Diesel Fuel

No. 2 Diesel Fuel Oil

No. 2 High Sulfur Diesel - Dyed

No. 2 Low Sulfur Diesel - Dyed; No. 2 Low Sulfur Diesel - Undyed

No. 2 Low Sulfur Distillate

No. 2 Ultra Low Sulfur Diesel - Dyed; No. 2 Ultra Low Sulfur Diesel - Undyed

Super Diesel Fuel; Super Diesel Fuel II-LS

Virgin Diesel Fuel; No. 2 Distillate

Super Diesel Fuel; Super Diesel Fuel II-LS

Virgin Diesel Fuel

Intended Use:

Fuel

Chemical Family:

Petroleum Hydrocarbon

Responsible Party:

ConocoPhillips 600 N. Dairy Ashford

Houston, Texas 77079-1175

MSDS Information:

800-762-0942

MSDS@conocophillips.com

**Customer Service:** 

800-527-5476

Technical Information:

800-527-5476

#### **Emergency Overview**

#### 24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident Call CHEMTREC:

North America: (800) 424-9300 Others: (703) 527-3887 (collect)

California Poison Control System: (800) 356-3219

Health Hazards/Precautionary Measures: Causes skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use with ventilation adequate to keep exposure below recommended limits, if any. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Flammable liquid and vapor. Keep away from heat, sparks, flames, static electricity or other sources of ignition.

Appearance:

Straw colored to dyed red

Physical Form:

Liquid

Odor:

Diesel fuel

NFPA 704 Hazard Class:

Health:

1 (Slight) 2 (Moderate)

Flammability: Instability:

0 (Least)

Status: Final

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# 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component / CAS No:	Concentration (wt %)	ACGIH:	OSHA:	NIOSH:	Other:
Diesel Fuel No. 2 68476-34-6	100	100 mg/m³ TWA- SKIN	NE	NE .	
Naphthalene 91-20-3	<1	10 ppm TWA 52 mg/m³ TWA 15 ppm STEL 79 mg/m³ STEL	10 ppm TWA 50 mg/m³ TWA	250 ppm IDLH	

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM. NE=Not Established

## 3. HAZARDS IDENTIFICATION

#### Potential Health Effects

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Mild to moderate skin inftant. Contact may cause redness, itching, burning, and skin damage. Prolonged or repeated contact may cause drying and cracking of the skin, dermatitis (inflammation), burns, and severe skin damage. No harmful effects from skin absorption have been reported.

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

**Ingestion (Swallowing):** Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the respiratory tract, irritation of the digestive tract, nausea, diarrhea, transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: There is inadequate information to evaluate the cancer hazard of this material. See Section 11 for information on the individual components, if any.

Target Organs: Inadequate evidence available for this material. See Section 11 for target-organ toxicity information of individual components, if any.

Developmental: Inadequate data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may Include skin disorders.

## 4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek medical attention.

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Inhalation (BreathIng): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

## 5. FIRE-FIGHTING MEASURES

## Flammable Properties:

Flash Point:

125-180°F / 52-82°C

Test Method:

Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

**OSHA Flammability Class:** 

Combustible liquid

LEL%:

0.3 10.0

UEL%:

10.0

Autoignition Temperature:

500°F / 260°C

Unusual Fire & Explosion Hazards: This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

**ExtInguishing Media:** Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

# 6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof electrical equipment is recommended,

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

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#### 7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tigntly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

#### Personal Protective Equipment (PPE):

Respiratory: A NIQSH certified air purifying respirator with an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88,2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation, and skin damage. Examples of approved materials are nitrile or Viton® (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical Form:

Odor:

Odor Threshold:

pH:

Vapor Pressure (mm Hg):

Vapor Density (air≈1):

Bolling Point:

Solubility in Water:

Partition Coefficient (n-octanol/water) (Kow):

Specific Gravity: Bulk Density:

Viscosity cSt @ 40°C:

Percent Volatile:

Evaporation Rate (nBuAc=1):

Flash Point: Test Method:

LEL%: UEL%:

**Autoignition Temperature:** 

Straw colored to dyed red

Liquid Diesel fuel No data Not applicable

0.40

> 3

300-690°F / 149-366°C

Negligible No data

0.81-0.88@ 60°F (15.6°C)

7.08 lbs/gal 1.7-4.1

Negligible@ ambient conditions

<1

125-180°F / 52-82°C

Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

0.3 10.0

500°F / 260°C

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Flammable liquid and vapor. Vapor can cause flash fire,

Conditions to Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (incompatible Materials): Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

Hazardous Decomposition Products: Combustion can yield carbon, nitrogen and sulfur oxides. The use of hydrocarbon fuel in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur and nitrogen, benzene and other hydrocarbons) and/or dangerously low oxygen levels. See Section 11 for additional information on hazards of engine exhaust, IARC has classified Diesel exhaust as probably carcinogenic in humans.

Hazardous Polymerization; Will not occur.

# 11. TOXICOLOGICAL INFORMATION

Chronic Data:

#### Diesel Fuel No. 2 (68476-34-6)

Carcinogenicity: Petroleum middle distillates have been shown to cause skin tumors in mice following repeated and prolonged skin contact. Follow-up studies have shown that these tumors are produced through a non-genotoxic mechanism associated with frequent cell damage and repair, and that they are not likely to cause tumors in the absence of prolonged skin irritation, Animal studies have also shown that washing the skin with soap and water can reduce the tumor response. Middle distillates with low polynuclear eromatic hydrocarbon content have not been identified as a carcinogen by NTP, IARC or OSHA.

Target Organs: Limited evidence of renal impairment has been noted from a few older case reports involving excessive exposure to diesel fuel No. 2. However, renal toxicity has not been demonstrated to be a consistent finding of diesel fuel exposure.

#### Naphthalene (91-20-3)

Carcinogenicity: Naphthalene has been evaluated in two year inhalation studies in both rats and mice. The National Toxicology Program (NTP) concluded that there is clear evidence of carcinogenicity in male and female rats based on increased incidences of respiratory epithelial adenomas and olfactory epithelial neuroblastomas of the nose. NTP found some evidence of carcinogenicity in female mice (alveolar adenomas) and no evidence of carcinogenicity in male mice. Naphthalene has been identified as a carcinogen by IARC and NTP.

T-690 P.006/008 F-529

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#### Acute Data:

Diesel Fuel No. 2 (68476-34-6) Dermal LD50= >5ml/kg (Rabbit) LC50= No data available Oral LD50= 9 ml/kg (Rat)

Naphthalene (91-20-3) Dermal LD50= >2.5 g/kg (rat) LC50= >340 mg/m³/1H (rat) Oral LD50= 490 mg/kg; 2.6 g/kg (rat)

# 12. ECOLOGICAL INFORMATION

When middle distillate hydrocarbons escape into the environment due to leaks or spills, most of their constituent hydrocarbons will evaporate and be photodegraded by reaction with hydroxyl radicals in the atmosphere. The half-lives in air for many of the individual hydrocarbons is less than one day. Less volatile hydrocarbons can persist in the aqueous environment for longer periods. They remain floating on the surface of the water, those that reach soil or sediment biodegrade relatively slowly. Soil contaminated with middle distillates can develop adapted microbial species able to use the fuel as a carbon source; soil aeration and nutrient supplementation can enhance this biodegradation.

Reported LC50/EC50 values for water-soluble fractions of middle distillates are usually in the range of 10 to 100 mg/liter. Adverse effects on the gills, pseudobranch, kidney and nasal mucosa have been reported in fish involved in spills of middle distillates. Juvanile clams may be particularly sensitive to marine sediments contaminated as a result of spilled material. Direct toxicity and fouling of sea birds can occur if birds dive through floating layers of spilled material.

Phytotoxic effects of middle distillate hydrocarbons have been reported following exposure of plants to sprays or vapors. Lack of seed germination and inhibition of seedling growth may also occur. There is evidence for moderate bioaccumulation of the water-soluble hydrocarbons present in middle distillates.

# 13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not a RCRA "listed" hazardous waste. However, it should be fully characterized for ignitability (D001) and benzene (D018) prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

#### 14. TRANSPORT INFORMATION

#### DOT

Shipping Description: Diesel Fuel, Combustible liquid, NA1993, III

Non-Bulk Package Marking: Not regulated in non-bulk quantities Non-Bulk Package Labeling: Not regulated in non-bulk quantities

Bulk Package/Placard Marking: Combustible/1993

Packaging - References (Exceptions, Non-Bulk, Bulk): 49 CFR 173.150(f), 173.203, 173.241

Hazardous Substance: None Emergency Response Guide: 128

Note: This product has been reclassified as a Combustible Liquid for domestic land transportation using 49 CFR 173.150(f).

# MDG

Shipping Description: UN1202, Diesel fuel, 3, III (52°C) Non-Bulk Package Marking: Diesel fuel, UN1202

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## 14. TRANSPORT INFORMATION

Labels: Flammable

Placards/Marking (Bulk): Flammable/1202

Packaging - Non-Bulk: P001, LP01

EMS: F-E, S-E

#### ICAO/IATA

UN/ID #: UN1202

Proper Shipping Name: Diesel fuel

Hazard Class/Division: 3 Packing Group: III Subsidiary risk; None

Non-Bulk Package Marking: Diesel fuel, UN1202

Labels: Flammable

	LTD. QTY.	Passenger Aircraft	Cargo Aircraft Only
Packaging Instruction #:	Y309_	309	310
Max. Net Qty. Per Package:	10 L	60 L	220 L

# 15. REGULATORY INFORMATION

#### U.S. Regulations:

## EPA SARA 311/312 (Title III Hazard Categories)

Acute Health: Chronic Health:

Fire Hazard: Yes
Pressure Hazard: No

Reactive Hazard:

No No

Yes

·No

#### SARA - Section 313 and 40 CFR 372:

# EPA (CERCLA) Reportable Quantity (in pounds):

EPA's Petroleum Exclusion applies to this material - (CERCLA 101(14)).

## CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372:

None Known —

#### California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Benzene - Cancer, Developmental and Reproductive Toxicant

Naphthalene - Cancer

Toluene - Developmental Toxicant

Diesel engine exhaust, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer.

## Carcinogen Identification:

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

Diesel exhaust is a probable cancer hazard based on tests in laboratory animals. It has been identified as a carcinogen by IARC.

#### TSCA:

All components are listed on the TSCA inventory.

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## International Regulations:

Canadian Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Domestic Substances List: Listed

WHMIS Hazard Class:

B2 - Flammable Liquids

D2B - Materials Causing Other Toxic Effects - Toxic Material

# 16. OTHER INFORMATION

Issue Date:

Previous Issue Date: Product Code:

Previous Product Code:

Revised Sections or Basis for Revision:

MSDS Code:

21-Feb-2006

13-Feb-2003 Multiple

Multiple

Product Name / Synonyms (Section 1)

001847

#### Disclaimer of Expressed and implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.