C-138

YEAR(S): 2006-1997

District I	
1625 N. French Dr., Hobbs, NM 88240	
District II	7
1301 W. Grand Avenue, Artesia, NM 88	3210
District III	
1000 Rio Brazos Road, Aztec, NM 8741	0
District IV	
1220 S. St. Francis Dr., Santa Fe, NM 8	7505 .

### 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

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator: Richardson Operating
Verbal Approval Received: Yes ⊠ No □  VERBAL APPROVAL BRANDON POWELL 11/14/06	5. Originating Site: Kirtland compressor Station
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) S 11; T 29N; R 15W	Project # 98094-010
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by no material is not-hazardous and the Generator's certification of origin. No waste claapproved</li> </ul>	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for transp	OOT.
BRIEF DESCRIPTION OF MATERIAL:  Accept 6 bbl hydrocarbon impacted material from site cleanup. RCRA metals testing concomposite 3 oil drum samples: Arsenic 0.013 mg/Kg; Barium 0.722 mg/Kg; Cadmium 0.mg/Kg; Mercury nondetect; Selenium 0.017 mg/Kg; Silver nondetect. Sample composite Aresenic 0.32 mg/KG; Barium 4.93 mg/Kg; Cadmium 0.011 mg/Kg; Chromium 0.823 mg Selenium 0.040 mg/Kg; Silver nondetect.  CWS and analyticals attached	084 mg/Kg; Chromium 0.951 mg/Kg; Lead 0.511 on 3 water drums revealed the following:
Estimated Volume 6 bbl Known Volume (to be entered by the operator at the end	of the haul)bbl
Waste Management Facility Authorized Agent	Geologist DATE: 11/13/2006  NO: (505) 632-0615
(This space for State Use)  APPROVED BY: Brandon Toung TITLE: Enviro Spe	PATE: 11/22/06
APPROVED BY: TITLE:	DATE:

# 2/ 2

11-10-05:03:41PM:



## 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:
Richardson Operating Company	Envirotech Inc. Soil Remediation Facility
5600 S. Quebec St. Ste 13013	Landfarm #2
Greenwood Village CD 80111	Hilltop, New Mexico
	2 C. 37 (C) 1.32 0 ( YT 1999)
	ocation of the Waste (Street address &/or ULSTR):
Kirtland Compressor Station 5	11: T29N: R15W
attach list of originating sites as appropriate  4. Source and Description of Waste	
4. Source and Description of Waste 5 drums hydrocarbon impacted 4 1 drum hazardous material to be	soil from site cleanup
3 contro regarded out in passion	1 CL SafitiKleen
I drum hazardous material to be	ausposed of by safety.
John Allania	
I, John A Heinle	representative for :
Quality to Quality of the A	•
Kichardson Operating Co	do hereby certify that, according to the Resource
Conservation and Recovery Act (RCRA) and Environmental Protection described waste is: (Check appropriate classification)	Agency's July, 1988, regulatory determination, the above
reserved waste is. (Outlook appropriate cutstinguisming)	•
	Toilfield waste which is non-hazardous by characteristic
analysis or by p	product identification
and that nothing has been added to the exempt or non-exempt non-hazz	ardons waste defined above.
For NON-EXEMPT waste the following documentation is attached (ch	
MSDS Information Other X RCRA Hazardous Waste Analysis	er (description
X Chain of Custody	
	·
This waste is in compliance with Regulated Levels of Naturally Occu	urring Radioactive Material (NORM) pursuant to 20
VMAC 3.1 subpart 1483.C and D.	
Name (Original Signature):	John A. Heinle
Fithe: Land / Engineering	
Phone Number: 303 - 830 - 8000	
Pate: 11 / 13 / 0 6	





Client:	Richardson	Project #:	98094-010
Sample ID:	Comp Oil Drums	Date Reported:	07-25-06
Laboratory Number:	37939	Date Sampled:	07-19-06
Chain of Custody:	1232	Date Received:	07-20-06
Sample Matrix:	Liquid	Date Analyzed:	07-25-06
Preservative:	Cool	Date Digested:	07-24-06
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	TCLP Regulatory Level (mg/L)
Arsenic	0.013	0.001	5.0
Barium	0.722	0.001	100
Cadmium	0.084	0.001	1.0
Chromium	0.951	0.001	5.0
Lead	0.511	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.017	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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Kirtland

Analyst

Review Warll





Client:	Richardson	Project #:	98094-010
Sample ID:	Comp Water Drums	Date Reported:	07-25-06
Laboratory Number:	37940	Date Sampled:	07-19-06
Chain of Custody:	1232	Date Received:	07-20-06
Sample Matrix:	Liquid	Date Analyzed:	07-25-06
Preservative:	Cool	Date Digested:	07-24-06
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	TCLP Regulatory Level (mg/L)
Arsenic	0.032	0.001	5.0
Barium	4.93	0.001	100
Cadmium	0.011	0.001	1.0
Chromium	0.823	0.001	5.0
Lead	0.674	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.040	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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Kirtland

Analyst

Review

Jul Wall





Client:	Richardson	Project #:	98094-010
Sample ID:	Comp Unknown Drums	Date Reported:	07-25-06
Laboratory Number:	37941	Date Sampled:	07-19-06
Chain of Custody:	1232	Date Received:	07-20-06
Sample Matrix:	Liquid	Date Analyzed:	07-25-06
Preservative:	Cool	Date Digested:	07-24-06
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	TCLP Regulatory Level (mg/L)
Arsenic	3.27	0.001	5.0
Barium	0.678	0.001	100
Cadmium	0.299	0.001	1.0
Chromium	1.00	0.001	5.0
Lead	0.336	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	2.21	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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Kirtland

Analyst

Review

Sul Wall





## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-25-TM QA/QC	Date Reported:	07-25-06
Laboratory Number:	37939	Date Sampled:	N/A
Sample Matrix:	Liquid	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	07-25-06
Condition:	N/A	Date Digested:	07-24-06

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.013	0.013	0.0%	0% - 30%
Barium	ND	ND	0.001	0.722	0.726	0.6%	0% - 30%
Cadmium	NĐ	ND	0.001	0.084	0.083	1.2%	0% - 30%
Chromium	ND	ND	0.001	0.951	0.955	0.4%	0% - 30%
Lead	ND	ND	0.001	0.511	0.508	0.6%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.017	0.017	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spike	Sample	Spiked	Percent	Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.500	0.013	0.512	99.8%	80% - 120%
Barium	0.500	0.722	1.22	99.8%	80% - 120%
Cadmium	0.500	0.084	0.581	99.5%	80% - 120%
Chromium	0.500	0.951	1.45	99.9%	80% - 120%
Lead	0.500	0.511	1.01	99.9%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	0.017	0.516	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 samples 37939 - 37941

Analyst

Review

Cul D'enll

# CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location					
			ANALYSIS / PARAMETERS	AMETERS		
Richardon	Kitten	ne		,		
Sampler:	Client No.		_	Re	Remarks	
Francis	18085	010-66086	ندر		10	
Sample No./ Sample Sample Identification Date Time	Lab Number	Sample Matrix	NG Cont	ned.	1 Just	0
Comp oil druns 7-19-06 13.00	37439	7				
comp with dray 13:25	i		/ /			
Comp UNKNOWN \$ 13.50		>	\ \ \ \			
Sums						
						T
Relinquished by: (Signature)		Date Time R	Received by (Signardie)	0	Date Time	
		7-20-06 15:45	Study Marth	<u>///</u>	20/0% 15:45	L
Relinquished by: (Signature)			Received by: (Signature)			
Relinquished by: (Signature)		- T	Received by: (Signature)			
				Sample Receipt	eceipt	_
n de la companya de					N/A	⋖
		5796 U.S. Highway 64 Farmington, New Mexico 87401	lighway 64 w Mexico 87401	Received Intact	>	
w, userman		(505) 632-0615	32-0615	Cool - Ice/Blue Ice		
						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

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE				
I. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator: Universal Compression			
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: San Juan 32-9 #285			
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Universal			
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401 8. State: New Mexico				
7. Location of Material (Street Address or ULSTR) "N" Sec 13, T32N, R10W, San Juan County	Project #98059-033			
9. <u>Circle One</u> :				
<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:				
New Coastal High Speed Pegasus 490 oil leaked from day tank contamina  CWS & MSDS attached  Estimated Volume 1bbl cy Known Volume (to be entered by the operator at the end of the contamina)	MAY 2004  MAY 20			
SIGNATURE March 8, 2004 Waste Management Facility Authorized Agent  TITLE: Landfarm Manager DATE: March 8, 2004				
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615				
Denny 2, Fourt				
(This space for State Use) DEPUTY OIL & GAS INSPECTOR APPROVED BY: TITLE:	DATE: 5/6/04			
APPROVED BY: Maty 7 Kg. TITLE: Environm	hill Galgist DATE 5/13/04			



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

#### **BILL RICHARDSON**

Governor

Joanna Prukop

Cabinet Secretary

2-25-04

Date:



Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATES				
1. Generator Name and Address  (Universal Commpnession  3440 monings  Landfarm #2  Hilltop, New Mexico				
3. Originating Site (name):  Location of the Waste (Street address &/or ULSTR):  Saw Jauw 32-9 #285 "N" SU13, T32N, R 10 W  attach list of originating sites as appropriate  SLC 04318104				
4. Source and Description of Waste New Coastal high Speed Fegasus 490 leaked from Day tank. 55 gallow solum OF Diret Oil				
I, Print Name    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  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 (description RCRA 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.				
Name (Original Signature): OK per Rick Mapes 3/8/04 Unj Title: field Strice tech				
Phone Number: (505) 990 33				

#### 605881-00 MOBIL PEGASUS 490 MATERIAL SAFETY DATA BULLETIN

#### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 490

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 (Primary) CHEMTREC: 800-424-9300

(Secondary) 281-834-3296

Product and Technical Information: 800-662-4525 703-846-6693

MSDS Fax on Demand: 613-228-1467, other MSDS information: 856-224-4644

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES GLOBALLY REPORTABLE MSDS INGREDIENTS:
None.

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): > 218(425) (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): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): > 218(425) (ASTM D-92)

FLAMMABILITY (solids): NE

AUTO FLAMMABILITY: NA

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.885

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 132.0

VISCOSITY AT 100 C, cSt: 13.3

POUR POINT C(F): < -15(5)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only

NA=NOT APPLICABLE NE=NOT 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.
- INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.
- EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
- SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.
- OTHER ACUTE TOXICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.
  - ---SUBCHRONIC TOXICOLOGY (SUMMARY) ---
- No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).
  - ---REPRODUCTIVE TOXICOLOGY (SUMMARY) ---

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

---CHRONIC TOXICOLOGY (SUMMARY)---

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

---SENSITIZATION (SUMMARY)---

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

#### 12. ECOLOGICAL INFORMATION

#### ENVIRONMENTAL FATE AND EFFECTS:

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

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is

subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

#### 14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT. RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

#### 15. REGULATORY INFORMATION

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

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

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

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (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) (<0.03%) 7440-66-6 22

PHOSPHORODITHOIC ACID, O,O-DI 68649-42-3 22

C1-14-ALKYL ESTERS, ZINC SALTS (2:

1) (ZDDP) (0.24%)

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

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: 605881-00, CMCS97: 970910, REQ: US - MARKETING, SAFE USE: L

EHS Approval Date: 06DEC2001

\*

\*

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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District I
1623. 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

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: Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Wash Bay
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 4109 E. Main Street, Farmington	Project #92132-001
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste claapproved</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:	
Wash bay grit from 2 bays that have been dried in a drying bed.  CWS, Re-Affirmation Statement, and TCLP dated 7/23/03 attached.	MAY 200A ON. ON. ON. ON.
Estimated Volumecy Known Volume (to be entered by the operator at the en	nd of the haul)cy
SIGNATURE Waste Management Facility Authorized Agent  TITLE: Landfarm Man.	ager DATE: March 25, 2004
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	
(This space for State Deputy on & GAS INSPECTOR  APPROVED BY: DEPUTY ON & GAS INSPECTOR  TITLE: Environment	
APPROVED BY: DEFO.	DATE: 5/6/04
APPROVED BY Muly ply - TITLE: Environment	1 Geologist DATE: 5/13/04

**CERTIFICATE O** 





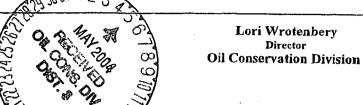
## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

#### **BILL RICHARDSON**

Governor

Joanna Prukop

Cabinet Secretary



		8/11915/30
	1. Generator Name and Address	2. Destination Name:
	Halliburton Energy Service	Envirotech Inc. Soil Remediation Facility
	4109 E. Main Street	Landfarm #2
	Farmington, New Mexico 87402	Hilltop, New Mexico
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Halliburton, 4109 E. Main, Farmington	
	attach list of originating sites as appropriate	
	4. Source and Description of Waste	
	Washbay grit from 2 bays that have been dried i	in a drying bed.
I,	Merle D. Krause III	representative for :
	Print Name	
	Halliburton Energy Service	do hereby certify that, according to the Resource
	vation and Recovery Act (RCRA) and Environmental Protect waste is: (Check appropriate classification)	ection Agency's July, 1988, regulatory determination, the above
E	KEMPT oilfield waste X NON-E analysis of	EXEMPT oilfield waste which is non-hazardous by characteristic or by product identification
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.  MSDS Information  X RCRA Hazardous Waste Analysis  Chain of Custody	ed (check appropriate items): _Other (description
	ste is in compliance with Regulated Levels of Naturally 3.1 subpart 1403.C and D.	Occurring Radioactive Material (NORM) pursuant to 20
Name (	Original Signature):	Jan .
Title:_	Material Control Supervisor	
Phone l	Number: (505) 324-3551	<del></del>
Data	March 25, 2004	



#### REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP

Printed Name

Title / Agency

Address

Signature

Date

P <u>+123/03</u>

Dean Krausell

Halliburton

4109 E. Mair

Farmington, MM

03/25/04



#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:

Halliburton

Project #:

92132-001

Sample ID:

2003 Wash Bay Sludge

Date Reported: 07-23-03

Lab ID#:

26147

Sample Matrix:

Soil

Date Sampled: 07-23-03

Preservative:

Cool

Date Received:

07-23-03

Date Analyzed:

07-23-03

Condition:

Cool and Intact

Chain of Custody:

11169

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 6.78

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:

Halliburton.



#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

	•		
Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Extracted:	07-23-03
Preservative:	Cool	Date Analyzed:	07-25-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0182	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0073	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Halliburton.

Analyst C. Oyline

Mistine of Walters
Review



#### EPA METHOD 8040 PHENOLS

Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147 .	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Extracted:	07-23-03
Preservative:	Cool	Date Analyzed:	07-25-03
Condition:	Cool & Intact	Analysis Requested:	TCLP
Preservative:	Cool	Date Analyzed:	07-25-03

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
,	2-Fluorophenol	99%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Halliburton.

Analyst C. Charles

Mistine m Walters
Review



#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Extracted:	07-23-03
Preservative:	Cool	Date Analyzed:	07-25-03
Condition:	Cool and Intact	Analysis Requested:	TCLP

	Concentration	Det. Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

#### 2-fluorobiphenyl

99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments.

Halliburton.

Analyst C. O.L.

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## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

	•		
Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Analyzed:	07-25-03
Preservative:	Cool	Date Extracted:	07-23-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals
		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.008	0.001	5.0
Barium	0.964	0.001	100
Cadmium	0.002	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
incroury	ND	0.001	U. <u>L</u>
Selenium	0.003	0.001	1.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Halliburton.

Analyst

Review Malters



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client: Sample ID: Laboratory Number:	QA/QC Laboratory Blank 07-25-TCV	Project #: Date Reported: Date Sampled:	N/A 07-25-03 N/A
Sample Matrix: Preservative: Condition:	Water N/A N/A	Date Received: Date Analyzed: Analysis Requested:	N/A 07-25-03 TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Cylenna

<u>Nistere</u> mulateur Review



#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-25-03
Laboratory Number:	07-23-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-25-03
Condition:	N/A	Date Extracted:	07-23-03
		Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
No. 4 Oblactica	ND	0.0004	0.0
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	99%
	1,4-difluorobenzene	98%
	4-bromochlorobenzene	98%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1094.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Office

Mistine M Watles
Review

. 620 . 0615 . Eav 505 . 620 . 1865



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0182	0.0181	0.0001	0.5%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0073	0.0073	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 26147.

Analyst

Review



#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:
Sample ID:

QA/QC Matrix Spike Project #:
Date Reported:

N/A 07-25-03

Laboratory Number: Sample Matrix: 26147 TCLP Extract Date Sampled: Date Received: N/A N/A

Analysis Requested:

TCLP

Date Analyzed:
Date Extracted:

0.0002

99.0%

07-25-03 07-23-03

42-143

Condition:

N/A

			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99.0%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	98.8%	43-143
2-Butanone (MEK)	0.0182	0.050	0.0680	0.0001	99.7%	43-143 47-132
Chloroform	ND	0.050	0.0500	0.0001	100.0%	49-133
Carbon Tetrachloride	ND	0.050	0.0495	0.0001	99.0%	43-143
Benzene	0.0073	0.050	0.0571	0.0001	99.7%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98.0%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99.0%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99.0%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99.0%	38-150

ND - Parameter not detected at the stated detection limit.

References:

1,4-Dichlorobenzene

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

0.050

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 26147.

ND

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0.0495

07404 - 701 505 - 600 - 0645 - 504 505 - 600 - 4



#### EPA METHOD 8040 PHENOLS

#### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID: Laboratory Number:	Laboratory Blank 07-25-TCA	Date Reported: Date Sampled:	07-25-03 N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-25-03
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory	
	Concentration	Limit	Limit	
Parameter	(mg/L)	(mg/L)	(mg/ <b>L</b> )	
o-Cresol	ND	0.020	200	
p,m-Cresol	ND	0.040	200	
2,4,6-Trichlorophenol	ND	0.020	2.0	
2,4,5-Trichlorophenol	ND	0.020	400	
Pentachlorophenol	ND	0.020	100	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-fluorophenol	98 %	
	2,4,6-tribromophenol	99 %	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Qu

Mistani m Wasters
Review



## EPA METHOD 8040 PHENOLS Quality Assurance Report

		,	
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-25-03
Laboratory Number:	07-23-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-23-03
Condition:	Cool & Intact	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

	Concentration	Det. Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	99%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Alexant. Cylen

Review

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## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-23-03
Condition:	Cool & Intact	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference

8040 Compounds

30.0%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Allen C. Cylina Analyst

Ahristine of Watters Review



## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

QA/QC Client: Project #: N/A Sample ID: Laboratory Blank Date Reported: 07-25-03 Laboratory Number: 05-25-TBN Date Sampled: N/A Hexane Date Received: Sample Matrix: N/A Preservative: N/A Date Extracted: N/A Condition: N/A Date Analyzed: 07-25-03 Analysis Requested: TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Lìmit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

#### 2-fluorobiphenyl

101%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Q

Review Muniters



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-25-03
Laboratory Number:	07-23-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-23-03
Condition:	Cool and Intact	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	. ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	96%
References:	· ·	Characteristic Leaching Procedure, S ory Funnel Liquid-Liquid Extraction, S	
	· ·	natics and Cyclic Ketones, SW-846, I	
Note:	Regulatory Limits based	d on 40 CFR part 261 Subpart C sect	ion 261.24, July 1, 1992.

Comments. QA/QC for sample 26147.

Analyst C. QL

A Mistine M Westless



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	07-23-03
Condition:	N/A	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

	Sample Result	Duplicate Result	Percent	Det. Limit
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

## 8090 Compounds

30%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments.

QA/QC for sample 26147.

Analyst C. Que

Allottne milesters
Review



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	N/A	Project #:	N/A
Sample ID:	07-25-TCM QA/QC	Date Reported:	07-25-03
Laboratory Number:	26147 .	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	07-25-03
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	COLUMN SERVICE SERVICES COMPANY	a Duplicate	e % Difference	Acceptance Range
Arsenic	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%
Barium	ND	ND	0.001	0.964	0.961	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Lead	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sampl	e Spiked Sample		Acceptance Range
Arsenic	0.500	0.008	0.507	99.8%	80% - 120%
Barium	0.500	0.964	1.46	99.7%	80% - 120%
Cadmium	0.500	0.002	0.502	100.0%	80% - 120%
Chromium	0.500	0.001	0.500	99.8%	80% - 120%
Lead	0.500	0.001	0.500	99.8%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.003	0.502	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals.

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 26147.

Analyst

/ Milline M Walter

# CHAIN OF CUSTODY RECORD

Project Location 92/3300/	Sample Sample Lab Number Sample Client No.	11.55 26147 50:11		Date Time Received by: (Signature)  Com Received by: (Signature)  Received by: (Signature)	Received by: (Signature)	ENVIROTECHING. Sample Receipt
oject Name bur よい	Sample Sample Date Time	Hall: burton, 003 Wash & 444 Studge 7-23 055		Relinquished by: (Signature)	Relinquished by: (Signature)	

District I
105 N. French Dr., Hobbs, NM 88240
Energy Minerals and Natural Resources
1071 W. Grand Avenue, Artesia, NM 88210
District III
1000 Pio Proce Bood Artes NM 87410

Oil Conservation Division

District III
1000 Rio Brazos Road, Aztec, NM 87410
Oil Conservation Division South St. Francis Dr.
1220 S. St. Francis Dr., Santa Fe, NM 87220 S. Saint Francis Dr. Panta Fe, NM 87505

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
RCRA Exempt:	4. Generator: El Paso Natural Gas Co.
Verbal Approval Received: Yes ☐ No ⊠	5. Originating Site: Goldsmith Pipeline District
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: Texas to Arizona to New Mexico
7. Location of Material (Street Address or ULSTR) 2 miles west of Goldsmith, TX, on State Route 302	Project # 12 13 14
9. Circle One:	o nond
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 no material is not-hazardous and the Generator's certification of origin. No waste classification approved	ecessary chemical analysis to PROVE the ssifted hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for transp	ort. 6212925000
BRIEF DESCRIPTION OF MATERIAL:	
Pigging sludge with slight NORM contamination generated during pigging (material has been through refining). Material was generated in Goldsmith, Phoenix, Arizona, for disposal but did not meet Arizona NORM requirement New Mexico at Envirotech's facility.	Texas, transported with waste shipment to
CWS and analytical attached.	
Estimated Volume 7bbls cy Known Volume (to be entered by the operator at the end	of the haul)cy
SIGNATURE Waste Management Racility Authorized Agent  TITLE: Landfarm Management Racility Authorized Agent	
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	ù31564-
(This space for State Use)  APPROVED BY: Struct TITLE: Fire in 10/1	Engr DATE: 3/1/104
APPROVED BY: Think 9/1/4, TITLE Envilonment	Geologist DATE: 3/15/04

Feb. 2. 2004=10:26AMMIROTECH

,5034NO.9240 P. 4/121 a/



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prusop

Cabinot Secretory



Lord Wrotenbery
Director
Oil Conservation Division

## CERTIFICATE OF WASTE STATUS

	1. Generator Name and Address	2. Destination Name:
	TRASO MATTERE CAS COMPANY	Envirotech Inc. Soil Remediation Facility
	1550 WIND WAY DRIM	Landfarm #2
	Duesca, TY 79761	Hilltop, New Mexico
1		
	3. Originating Sito (name):	Location of the Wasto (Street address &/or ULSTR):
	GOLDSMIN POPELIER ANSTRICT	2 miles west of bocosmill, TX
		CON 5MTE 120075 30'2
[	and the second s	
1	attach list of originating rites as appropriate	
1	4. Source and Description of Waste PIGGINA SHOGE LIEM PIPELINE	La MIRA
	riaging stande alom piper	
	Natural gas transportation	n Une. Has been through
İ	refining.	
Ro	BERT Al. ST. JOHN	representative for:
***********	Print Name	
2	HOW Y HATTICKE CAS CON DRUG	do hereby vertify that, according to the Resource don Agency's July, 1988, regulatory determination, the above
Conserv	ration and Recovery Act (RCRA) and Environmental Protect	tion Agency's July, 1988, regulatory determination, the above
describe	d waste is: (Check appropriate classification)	
	V = 4.000 mm	199 1/199-199 189 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E	EMPI oilfield waste NON-EXI	MPT villield waste which is non-hazardous by characteristic
	. analysis	or by product identification
3 44	t nothing has been added to the exempt or non-exempt non-	harardone mosts defined show
and the	t Hottimk was neen added to the exempt of their exempt you	Marginals assessment about
C 3100	N-EXEMPT wants the following documentation is attached	Critical ammoriate (temp)
KOL MO		Other (description
	Mans information  RCRA Hazardous Waste Analysis	Odiei (describiton
	Chain of Custody	
	Chair or cantody	- —
	A Comment of Designated Legals of Naturally	Occurring Radioactive Material (NORM) pursuant to 20
	3.1 subpart 1403.C and D.	occit traff Wranton article in (MOWIAT) barsastit to Th
TITALEC	J.1 subpart 14002 and Dr	
Lf .	10 1 1 diameter 20 1 1 1 1	
NEME!	On iginal Signature):	$\mathcal{V}_{\ell}$
****** /	PRINCIPAL ENV. Scientst V	- LAW 100G
		- I studied is
n		John Lotos
rnona	Number: 437-686 3268	· March
n	Forwary 3, 2004	
nate;	The rule of the	<u>-                                      </u>
***************************************		
	Oil Conservation Division * 1000 R	io Brazos Road * Aztec, New Mexico 87410 334-6170 * http://www.emmid.stato.nm.us

~~Feb. 9. 2004710:28AMm~~

No.94980 P. 2/220

09/08/03

# El Paso Natural Gas Gold Smith TX

- Sample 47169 3 DM Non Haz Sludge, Line 1105
- Sample 47170 1 DM Haz Sludge (methenol) Ignitability(<140f)
- Sample 47171 1 DM Haz Sludge (methenol) Ignitability(<140f)
- Sample 47172 1DM Non Haz Sludge,Line 3173
- Sample 47173 –2 DM (Regulated NORM >150pci/g)Line 3173
- Sample 47174 4 DM Non Haz Sludge, Line 3116)
- Sample 47175 4 DM Haz Sludge (Mucury, Benzene) Line 1600
- Sample 47176 2 DM Haz Sludge (benzene) Line 1600
- Sample 45027-2 DM Haz Sludge (Benzene) Line3082
- Sample 47481 4DM Non Haz, Line 2000
- Sample 47223 1DM Non Haz, Line3114
- Sample 47224 1DM Haz Sludge, (Benzene) Line3114
- Sample 45207 –1DM Haz? Sludge, Dirt Line 3082
- 1DM pigging disk
- 4 DM Empty (crush)
- Sample 45026-350 bl. Pigging sludge, Haz (Benzene) frac tank, Line 3082



# Memorandum

Sample Number	Sample Date	Matrix	Sample Description	Analysis	Results
47169	7-10-2003	Sludge	Line 1105	Ignitability	Non hazardous
			sludge	Corrosivity	Non hazardous
	,	<u> </u>		Reactivity	Non hazardous
JE1			,	TCLP Metals	Non hazardous
*				Volatiles	Non hazardous
		1		PCBs	Non hazardous
		}		NORM	Non hazardous \$ 14
47170	7-10-2003	Sludge	Unknown drum	Ignitability	Hazardous (<140 F)
4/1/0	, 20 20 10		·	Corrosivity	Non hazardous
				Reactivity	Non hazardous
10		1	·	TCLP Metals	Non hazardous
WY				Volatiles	Non hazardous
181				PCBs	Non hazardous
				NORM	Non hazardous
47171	7-10-2003	Sludge	Unknown drum	Ignitability	Hazardous (<140 F)
7/1/2	, 10 2007			Corrosivity	Non hazardous
/ <del></del>			1	Reactivity	Non hazardous
H/5	7			TCLP Metals	Non hazardous
M -				Volatiles	Non hazardous
				PCBs	Non hazardous
				NORM	Non hazardous
47172	7-10-2003	Sludge	Line 3173 liquid	Ignitability	Non hazardous
T/ 1 / A	, 10 2002	1		Corrosivity	Non hazardous
		Ì		Reactivity	Non hazardous
LU	l 			TCLP Metals	Non hazardous
#1				Volatiles	Non hazardous
X		\		PCBs	Non hazardous
	}			NORM	Non hazardous
47173	7-10-2003	Sludge	Line 3173 Line	Ignitability	Non hazardous
7/1/3	/ " [ ]		sludge	Corrosivity	Non hazardous
_	1			Reactivity	Non hazardous
1				TCLP Metals	Non hazardous
$\mathcal{W}^{\mathcal{I}}$				Volatiles	Non hazardous
$\mathcal{X}$	}			PCBs	Non hazardous
		1		NORM	Regulated (>150 pci/g)
	l	_1	1	HOKIM	Legulated (~120 belig)

68/26/2003 IUE 10:40 KOA

elpaso

# Memorandum

Sample	Sample	Matrix	Sample	Analysis	Results
Number	Date		Description		
47174	7-10-2003	Sludge	Line 3116 line	Ignitability	Non hazardous
			sindge	Corrosivity	Non hazardous
				Reactivity	Non hazardous
XD	·	1		TCLP Metals	Non hazardous
# 0				Volatiles	Non hazardous
~('		1	,	PCBs	Non hazardous
	· • • • • • • • • • • • • • • • • • • •		<u> </u>	NORM	Non hazardous > 40.3
47175	7-10-2003	Sludge	Line 1600	Ignitability	Non hazardous
			sludge	Comosívity	Non hazardous
			-	Reactivity	Non hazardous
XI			•	TCLP Metals	Hazardous (Hg>0.2 mg/l)
$\mathcal{X}$		,		Volatiles	Hazardous (Benzene >0,5
		1	·		mg/l)
				PCBs	Non hazardous
				NORM	Non hazardous
47176	7-10-2003	Sludge	Line 1600 liquid	Ignitability	Non hazardous
, }			•	Corrosivity	Non hazardous
V4		<u>}</u>		Reactivity	Non hazardous
XX		]		TCLP Metals	Non hazardous
. X\			•	Volatiles	Hazardous (Benzene >0.5
					mg/1)
		}		PCBs	Non hazardous
				NORM	Non hazardous



#### LABORATORY SERVICE REPORT

REQUESTOR

McFarden, Donnic

Odessa, TX

REPORT DATE:

8/2/2003

REQUEST NO APPROVED BY. 2003070847 Darrell Campbell

DISTRIBUTION:

Si John, Robert: Whitney, Mark, Carrasco, Tom, Vegu, Eddie

PERFORMED BY:

Accurest

Request Description;

Wasto Drums at Goldsmith

Date Received:

Sample No:

8/1/2003

Dala Completed

7/11/2003

47169 Sampled By: Darrell Campbell Sample Date: 7/10/2003 8:30:00 AM

Lab (D: Description:

Analysis:

WT TCLP & NORM And (Solid) Disposal/Environmental Concerns

Punnse: Marrix:

Sludge

Location

EPNG - Midland - Odessa - Goldsmith - 0+0 - Goldsmith Drum Storage - 1105 Line Studge

Sample No: 2

Sampled By: Lab ID:

Darrell Campbell

Sample Date: 7/10/2003 8:40:00 AM

Description:

Analysis:

WP TCLP & NORM Anal (Oil) Disposal/Environmental Concerns

Pumpose: Matrix.

Sludge

EPNC - Midland - Odensa - Goldenith - 0+0 - Goldsmith Drum Storage - Unknown Drum

Sample No:

Location Lab ID.

47171 Sampled By: Darrell Campbell Sample Dute: 7/10/2003 8:50:00 AM

Description:

Applyals:

WP TCLP & NORM Anal (Oil)

Pennon

Disposal/Environmental Concerns

Sampled By:

Manin:

Sludge

47172

Location Lab M:

HPNG - Midland - Odessa - Goldsmith - 0+0 - Goldsmith Drum Storage - Unknown Drum

Darrell Campbell

Sample No:

Description:

Analysis

WP TCLP & NORM Anal (Oil)

Parnose:

Disposal/Environmental Concerns

Matric:

Sludga

Lognion

RPNG - Midland - Odesxa Goldsmith - 010 - Goldsmith Drum Storage - 3173 Line Liquid Sampled By: Darrell Campbell

Sample Date: 7/10/2003 9:10:00 AM

ORIGINAL

Sample Date: 7/10/2003 9:00:00 AM

Sample No:

Lab ID:

Desenotion Analysis:

WP TCLP & NORM Anal (Solid) Disposal/Environmental Concerns

Purposo: Marria:

47173

Sludge

EPNO - Midland - Odessa - Goldsmith - 0+0 - Goldsmith Orum Stomge - 3173 Line Studge

Sample No:

Locution:

Darrell Campbell 47174 Sampled By:

Sumply Date: 7/10/2003 9:20:00.AM

Lab IDr Descriptions

Analysis:

WY TCLY & NORM Anal (Solid)

Purpase:

Disposal/Environmental Concerns

MUDIX! Location: Sludge

EPNG - Midland - Odcessa - Goldsmith - 0+0 - Goldsmith Drum Storage - 3116 Line Studge

This report has been proposed for the private and exclusive use of El Pasa Corporation and its affiliates and its dollvery to any other person is upon the expressed understanding and condition that no representations or marranders, expressed or implied, are contained liceria with respect to any of the information set forth in the report. If the purpose of this pample(s) is "External Cornection", "Internal Cornection", and or "lyging Sumpley", the interpretation of this report is the responsibility of Pipeline Services. Field Operations will only be contacted by Pipeline Services if the results require any action to be taken

Sample No; 7 IND ID:

47175 Sampled Dy:

Dantil Campbell

Sample Date:

7/10/2003 9:30:00 AM

Description:

Analysis:

WP TCLP & NORM Anal (Solid)

Purposo:

DisposabEnvironmental Concerns

Sludge EPNG - Midland - Odessa - Goldsmith - 0-0 - Goldsmith Drum Storage 1600 Line Sludge

Madix: Location:

Lab ID: 47176

Sample No.

Description,

Sampled By;

Darrell Campball

Sample Date: 7/10/2003 9:40:00 AM

Analysis:

WPTCLP & NORM And (Oil)

Ригрозо:

Disposal/Environmental Concerns

Matrix:

Sludge

Location:

EPNG - Midland - Odessa - Goldsmith - 0+0 - Goldsmith Drum Storage - 1600 Line Liquid

Data: See outsided sheet(s).

Comments

Request: 1063070844		A	1	A	
Sample:		1	¥ \$	<u> </u>	1
ICI.P. Characteristics					
Icortabilita					$\sim$
Ignitability		>210	>210	>210	(150)
Corrostato					
pH	, so	6.40	6.20	8.30	6.80
Reactivity					,
Cyanide (Rescuive)	mg/Ku	< 0,4	SD.A	< 0.5	< 0.4
Sulfida (Reporting)	mg/Kg	< 9.0	< 9.0	< 9.0	× 8.0
TCLP Memix Amenic	da A.F.	0.15		-0.10	
Barlum	mg/l	0.12	< 0.10	< 0.10	1.5
Cadmium	mg∕i mg∕i	0.54 < 0.040	0,28 < 0,040	0.2.\$ < 0.040	3.2 < 0.040
Chromiva	mg/l	< 0.20	< 0.20	<0.20	0.29
Lead	mg/l	< 0.10	< 0.10	< 0.10	30:10
Mercury	mg/l	0.049	0,061	0.044	2.6 2.0
Scienium	mg/l	< 0.10	< 0.10	< 0.10	<0.10
Silver	'mg/l	< D.050	< 0.050	< 0.050	~ 0.050
-		•	,	•	
TCLP 8260			•		
1,14Dichlorocheno	Ngm	< 0.25	< 0 <sub>-</sub> 050	< 0.050	< 5.0
1,2-Dicintorouthanc	l'hy/l	< 0.25	< 0.050	< 0.050	<b>&lt;</b> 5,0
1.4 Diahlowberene	ing/l	< 0,039	< 0.050	< 0.050	<0.20
Benzenc	Mygm Ngm	0,0728	< 0.050	< 0.050	2.16 2.16
2-Butanone	mg/l	< 0,50	<0.10	< 0.10	< 10.0
Carbon Tetrachloride	கூறி	< 0.25	< 0.050	< 0.050	< 3,0
Chlorobenzone	mg/l	< 0.25	< 0.050	< 0050	< 5.0
Chloroform	mg/l	< 0.25	< 0.050	< 0.050	< \$.0
Tetracillorocthene Trichlorocthono	`mg/l	< 0.25	< 0.050	< 0.050	<.5.0
Vinyl Chierida	mg/l	< 0.25 < 0.25	< 0.050 < 0.050	< 0.050	€5;0
4 13/3 1 7 10 2 1 mc	mg∕l	~ 0.23	< 0.090	<b>&lt; 0</b> .050	< 5.0
TCLP 8270					,
1,4-Dichlombenzene	n\g/l	< 0.050	< 0.050	< 0.050	< 0.20
2,4,5-Trichlorophenol	mg/l	< 0.050	<b>₹0,050</b>	< <b>0</b> ,050	< 0.20
2,4,6-Trichlorophenol	mg/l	< 0.050	<.0.050	~ 0.030	< 0.20
2,4- Dinitrosoluene	אלאינינו	< 0.050	< 0.050	< 0.050	< 0.20
2-Methlyphenol	mg/l	< 0.050	< 0.050	< 0,050	< 0.20
3 & 4-Mothlyphonol, Total	mg/l — -a	< 0.050	< 0,050	< 0.050	< 0.20
Nexachlorobutadiene Hexachlorobutadiene	mg/l	< 0.050 = 0.050	< 0.050	< 0.050	< 0.20
Hexachlorochinna	Ng∕n Ngra	< 0.050 < 0.050	< 0.050	< 0.050	< 0,20
Nivobenzene	mg/i		< 0.050 < 0.050	< 0.050 `< 0.050	< 0.20
Peninchlorophenol	me∕l mev	< 0.050 < 0.28	. 0(4)50	`<0.050	< 0.20
	nig/i		× 0.25	≪0,25 <0.040	<1.0
Pyridine	w.kh.i	< 0.050	< 0.050	<0.050	< 0.20
PCR Anxiyas					
Aroctor 1016	mg/Kg	< 0.180	< 0.180	< 0_190	<b>₹0.</b> 170
	mg/Kg	< 0.180			

6. 4. 2004-72:40PM

I 2003070344 < 0.170 Request: c 0.190 <0.170 < 0.180~ 0.190 < 0.170 <0,180 ~ 0.180 ~ 0:130 myKr ~O.170 < 0.180 < 0.180 <u>Rempica</u> < 0.190 < 9.170 me/Ke Acodor 1232 < 0.180 ≥0.180 € 0.190 WAIKE Amelor 1242 < 0.180 < 0.180 92,6 mg/Kg Aroclar 1248 S 0 180 1176 mgKg Aroclof 1254 40.3 7,6 Aracler 1260 694.2 10.2 14.0 2.9 PCV/E NORM Analysis 17.4 684.2 M<sub>b</sub> 1,094-210 Load RPU 7 downs total from #6
Sample #1 And Sample #6 Request: 2003070844

Sample: _		2.	3	<b>&amp;</b> :	<b>R</b>
TCLP Characteristics					•
					,
lenuability .	•	The same of the sa			
Flach Point	<b>"</b> }	/ t20 /	(95)	190	>210
C					
<u>Corcealylty</u> pH		_	(Marie )	,	
pr.	รบ	6.0	[/12.6]	11.0	6.6
Reactivity					
Cyanido(Reactive)	mg/Kg	48.4			
Sulfide(Reactive)	my/Kg	<0.4	< 0.4	€ 0.4	<0.4
	w.K.V.	< 8,0	< B,O	4: B.O	< R_0
ICLE Mosts					
Arzenie	mgʻi	< 0.10	< 0.10	< 0,10	
Bariwa	mg/l	< 0.10	× 9.10		<0.10
Cadmium	тцүЛ	< 0.040	< 0.040	∜0.10 ≪0,040	0.16
Thromium	ದಾರ್/	< 0.20	< 0.20		< 0.040
rend .	mg/l	< 0. YO	< 0.10	< 0.20	<0.20
Mercury	ing/)	< 0,0040	< 0,0040	< 0.10 0.01	<0.10
Selephun	mg/l	< 0.10	<0.10	< 0.10	< 0.0040
silvor	thg/I	< 0.050	< 0.050	< 0.050	< 0.10
<b>DOI</b> 4	_		•	. 0.000	< 0.050
ICLI 8268	_				
	ng/l	< 0.050	< 2.5	< 0.25	< 0.3
.2 Dichloroethme .4- Dichlorotemene	mg/l	< 0.050	¢ Z.5	< 0.25	<0.3
denzene	mg/l	< 0.050	< 2.5	< 0.25	* 0 B
Butanone	l/gnr ·	< 0.050	< 2.5	< 0.25	0.627 .627
Sarban Tetrachlocide	my)	< 0.10	< 5.0	< 0.50	<1
Chlorobunzane	ng/l	< 0.050	₹ 2.5	< 0.25	< 0.25
Thlureform	mg/l	< 0.050	< 2.5	< 0.25	< 0.25
etruchlorochicne	mg/l	< 0.050	< 2.5	< 0.25	< 0.25
Triablococatene	ràg/l	~ 0.050	< 2.5	< 0.25	< 0.3
inyl Chloride	mg/l	< 0.050	< 2.5	< 0.25	~ 0.3
Ally 2 Olitoriae	myl	< 0.050	< 2.5	< 0.25	< 0,25
CLP 8270					
4- Dichlorobenzene	mps	< 490	< 0.50		•
4,5- Trichlorophenol	mg/l	< 490	< 0.50	< 50	< 49
4,6- Theblorophonal	mg/l	< 490	<.0.50	< 50	< 49
4- Dinitrotaluono	mg/l	< 490	'< 0:50	< 50	< 49
Methylphenol	mg/l	< 490	< 0.50	<50 ~50	< 49
& 4-Methylphonol, total	mg/l	< 490	< 0.50	•	<49
exactiorobenzene	Tym	< 490	< 0.50	< 50 < 50	. <49
exechloreduradione	mg/l	< 490	<0.50	< <b>50</b>	<.49
exachlorocdiane	mel	- 490	< 0.50		< 49
inobenzent	mg/l	± 490	< 0.50	< 50	<49
entachlorophenol	mg/l	< 2400	< 2.5	< 50 < 350	<49
vridine	mg/l	<.490	< 0.50	< 250 < 50	< 240
	•	-	,= U,D()	~ ⊅V	<b>&lt; 49</b>
CR Annivers		•			
roclar 1016	<b>ரை/</b> Kg	< 0.500	< 0.500	< 5.000	A # A
rocla 1221	mpkg	< 0.500	< 0.500	< 5.000	<5.0

Request: 2003070844

Sample		1	3	d	
Areòlar 1232	mg/Kg			9	Ä
Atoslar 1242		< 0.500	~ 0.500	4 5.000	< 5.0
Araclar-1248	merke	< 0.500	<0,500	< 5,000	< 5.0
Aroclor 1254	mg/Kg	< 0,500	< 0.500	< 5,000	~: 5.0°
	my/Kg	< 0.500	< 0.500	< 5.000	< 5.0
Aroclor (260)	meKg	< 0.500	< 0.500	~ 5.000	< 5.0
NORM Analysis			1		
Load-210	dCi/e	≈5,0			
Load RPU	%	NΛ	< 5.0	≤ 5.0∪	< 5.0
	7.	МУ	MV	Na	TALA.

505-.632-1865

#### Accutest Laboratories

## Report of Analysis

Page 1 of 1

Client Sample ID: 1

Lab Sample ID:

Matrix:

T4827-1 SO - Solid

SW846 8270C SW846 1311

Date Sampled: 07/10/03 Date Received:

07/14/03

Method: Project:

2003070844

Percent Solids: 93.1

Analytical Batch

Run #1

File ID A05001.D

100 ml

Analyzed 07/21/03

Вγ SC Prep Date 07/19/03

Prep Batch OP2315

EA523

Run #2

Initial Volume Final Volume

Run #1

1.0 ml

DF

1

Run #2

#### ABN TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.050	mg/l	
	3&4-Methylphenol	ND	D024	200	0.050	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.25	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.050	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.050	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.050	mg/1	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.050	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.050	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# I	Run#	2 1	Limits		
367-12-4	2-Fluorophenol	45%		:	10-91%		
4165-62-2	Phenol-d5	35%		)	0-94%		
118-79-6	2,4,6-Tribromophenol	70%		7	27-125%		
4165-60-0	Nitrobenzene-d5	74%		:	34-111%		
321-60-8	2-Fluorobiphenyl	75%		;	32-108%		
1718-51-0	Terphenyl-d14	90%		4	13-121%		

ND = Not detected

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

Page 1 of 1

Client Sam Lab Sampl Matrix: Method: Project:		W846 3550B	Date Sampled: 07/10/03 Date Received: 07/14/03 Percent Solids: 93.1						
Run #1 Run #2	File ID GG14425.D	DF 10	Analyzed 07/30/03	By GP	Ртер D 07/18/0		Prep Batch OP2309	Analytical Batch GGG429	
Run #1 Run #2	Initial Weight 30.0 g	Final V 10.0 ml							
PCB List									
CAS No.	Compound	,	Result	RL	Units	Q			
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254		ND ND ND ND ND ND	180 180 180 180 180 180	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg				

Run# 2

Limits

34-138%

27-140%

Run# 1

80%

34%

CAS No.

877-09-8

2051-24-3

Surrogate Recoveries

Tetrachloro-m-xylene

Decachlorobiphenyl

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

Page 1 of 1

Client Sample ID: 1

Lab Sample ID: Matrix: T4827-1

SO - Solid

Date Sampled: 07/10/03

Date Received: 07/14/03

Percent Solids: 93.1

Project:

2003070844

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.12	D004	5.0	0.10	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Barium	0.54	D005	100	0.10	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Cadmium	< 0.040	D006	1.0	0.040	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Chromium a	< 0.20	D007	5-0	0.20	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Lead	< 0.10	D008	5.0	0.10	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Мегсцгу <sup>а</sup>	0.049	D009	0.20	0.0040	mg/l	1	07/24/03	07/26/03 CB	SW846 7470A	SW846 7470A
Selenium	< 0.10	D010	1.0	0.10	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Silver	< 0.050	D011	5.0	0.050	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A

<sup>(</sup>a) Elevated reporting limit due to difficult sample matrix.

# Report of Analysis

Page 1 of 1

Client Sample ID: 1

Lab Sample ID: Matrix: T4827-1 SO - Solid Date Sampled: 07/10/03
Date Received: 07/14/03

Percent Solids: 93.1

Project:

2003070844

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Corrosivity as pH Cyanide Reactivity Ignitability (Flashpoint) Solids, Percent Sulfide Reactivity	6.4 <0.40 >210 93.1 <9.0	0.40 9.0	mg/kg Deg. F % mg/kg	1 40 1 1 40	07/24/03 12:00 07/23/03 09:00 07/28/03 15:20 07/17/03 07/23/03 13:20	LN LC LC	SW846 CHAP7 SW846 CHAP7 SW846 1010 EPA 160.3 M SW846 CHAP7

# Report of Analysis

Ву

BC

Page 1 of 1

Client Sample ID: 6

Lab Sample ID: Matrix:

T4827-6

SO - Solid

File ID

B106048.D

SW846 8260B

Date Sampled: 07/10/03

Prep Date

07/28/03

Date Received: 07/14/03

Percent Solids: 87.1

Method: Project:

2003070844

DF

10

Prep Batch Analytical Batch OP2364 VB517

Run #1 Run #2

> Purge Volume 5.0 ml

Run #1

Run #2

#### VOA TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.050	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.050	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.050	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.050	mg/l	
75-35-4	1,1-Dichloroethylene	ND	D029	0.70	0.050	mg/l	
107-06~2	1,2-Dichloroethane	ND	D028	0.50	0.050	mg/l	
78~93-3	Methyl ethyl ketone	ND	D035	200	0.10	mg/l	
127-18-4	Tetrachloroethylene	ND	D039	0.70	0.050	mg/l	
79~01-6	Trichloroethylene	ND	D040	0.50	0.050	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run#	2 .	Limits		
1868-53-7	Dibromofluoromethane	105%		;	88-114%		
2037-26-5	Toluene-D8	102%			88-110%		
460-00-4	4-Bromofluorobenzene	91%		:	88-115%		
17060-07-0	1,2-Dichloroethane-D4	111%		;	31-122%		

Analyzed

07/26/03

ND = Not detected

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

Page 1 of 1

-	ila ID	DE	Analyzad	Par.	Prop Data	Drop Batch	Analysical Batak
Project:	20030	70844	***************************************			<b>-</b>	
Method:	SW84	6 8270C	SW846 1311		Percent Solids	: <b>87</b> -1	
Matrix:	SO - S	Solid			Date Received	: 07/14/03	
Lab Sample	ID: T4827	7-6			Date Sampled	: 07/10/03	
Client Sampl	le ID; 6						

- 1	Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	Run #2	A04993.D	1	07/21/03	SC	07/19/03	OP2315	EA523
L						<del></del>		

		Initial Volume	Final Volume	 	 
Run #2	Run #1	100 ml	1.0 ml		
	Run #2				

#### ABN TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.050	mg/l	
	3&4-Methylphenol	ND	D024	200	0.050	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.25	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	mg/l	
88~06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.050	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.050	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.050	mg/l	
87-68~3	Hexachlorobutadiene	ND	D033	0.50	0.050	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	mg/l	
98-95-3	Nitrobenzene	ND	D036	0.5	0.050	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	<b>:</b> 1	Limits		
367-12-4	2-Fluorophenol	41%		1	10-91%		
4165-62-2	Phenol-d5	33%		1	10-94%		
118-79-6	2,4,6-Tribromophenol	81%		2	27-125%		
4165-60-0	Nitrobenzene-d5	75%		3	34-111%		
321-60-8	2-Fluorobiphenyl	68%		3	32-108%		
1718-51-0	Terphenyl-d14	83%		4	13-121%		

ND = Not detected

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sam Lab Sampl Matrix: Method: Project:		olid 8 8082 SW	/846 3550B		Date Sample Date Receiv Percent Soli	ed: 07/14/03	
Run #1 ª Run #2	File ID GG14463.D	DF 10	Analyzed 07/31/03	By GP	Prep Date 07/18/03	Prep Batch OP2309	Analytical Batch GGG430
Run #1 Run #2	Initial Weight 30.0 g	Final Vo 10.0 ml	lume				
PCB List							
CAS No.	Compound	,	Result	RL	Units Q		
12674-11-2 11104-28-2			ND ND	190 190	ug/kg ug/kg		
11141-16-5 53469-21-9			ND ND	190 190	ug/kg ug/kg		
12672-29-6 11097-69-1 11096-82-5	Aroclor 1254		ND ND ND	190 190 190	ug/kg ug/kg ug/kg		
CAS No.	Surrogate Rec	coveries	Run# 1	190 Run# 2	Limits		
877-09-8 2051-24-3	Tetrachloro-m Decachlorobip		72% 1479% <sup>b</sup>		34-138% 27-140%		

<sup>(</sup>a) Dilution needed due to high level of sulfur present in the sample. Sample was sulfur cleaned numerous times.

<sup>(</sup>b) Outside control limits due to dilution.

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

Page 1 of 1

Client Sample ID: 6

Lab Sample ID: Matrix:

T4827-6

SO - Solid

Date Sampled: 07/10/03 Date Received: 07/14/03

Percent Solids: 87.1

Project:

2003070844

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Ргер	Analyzed By	Method	Prep Method
Arsenic	< 0.10	D004	5.0	0.10	mg/]	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Barium	0.25	D005	100	0.10	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Cadmium	< 0.040	D006	1.0	0.040	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Chromium a	< 0.20	D007	5.0	0.20	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Lead	< 0.10	D008	5.0	0.10	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Mercury a	0.044	D009	0.20	0.0040	mg/l	1	07/24/03	07/26/03 CB	SW846 7470A	SW846 7470A
Selenium	< 0.10	D010	1.0	0.10	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A
Silver	< 0.050	D011	5.0	0.050	mg/l	10	07/23/03	07/26/03 JA	SW846 6010B	SW846 3010A

<sup>(</sup>a) Elevated reporting limit due to difficult sample matrix.

# Report of Analysis

Page 1 of 1

Client Sample ID: 6

Lab Sample ID:

T4827-6

Matrix:

SO - Solid

Date Sampled: 07/10/03

Date Received: 07/14/03

Percent Solids: 87.1

Project:

2003070844

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Corrosivity as pH Cyanide Reactivity Ignitability (Flashpoint) Solids, Percent Sulfide Reactivity	8.3 <0.50 >210 87.1 <9.0	0.50 9.0	mg/kg Deg. F % mg/kg	1 40 1 1 40	07/24/03 12:00 07/23/03 09:00 07/28/03 15:20 07/17/03 07/23/03 13:20	LN LC LC	SW846 CHAP7 SW846 CHAP7 SW846 1010 EPA 160.3 M SW846 CHAP7

GC/MS Volatiles

**QC** Data Summaries

Includes the following where applicable:

- · Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Blank Spike Summary Job Number: T4827

Account: Project:

EPASTXEP El Paso Corporation - El Paso, TX

2003070844

File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
B106045.D	10	07/26/03	BC	07/28/03	OP2364	VB517
		File ID DF B106045.D 10	· · · · · · · · · · · · · · · · · · ·	- · · · · · · · · · · · · · · · · · · ·	<b>y</b>	

The QC reported here applies to the following samples:

Method: SW846 8260B

T4827-5, T4827-6, T4827-7

CAS No.	Compound	Spike ug/1	BSP ug/l	BSP %	Limits
71-43-2	Вепледе ,	250	215	86	77-128
108~90-7	Chlorobenzene	250	227	91	77-120
67-66-3	Chloroform	250	224	90	77-122
56-23-5	Carbon tetrachloride	250	241	96	73-135
75-35-4	1,1-Dichloroethylene	250	262	105	70-134
107-06-2	1,2-Dichloroethane	250	243	97	71-117
78-93-3	Methyl ethyl ketone	1250	1070	86	63-128
127-18-4	Tetrachloroethylene	250	228	91	69-134
79-01-6	Trichloroethylene	250	242	97	75-128
75-01-4	Vinyl chloride	250	258	103	72-139
CAS No.	Surrogate Recoveries	BSP	Lin	pits	
1868-53-7	Dibromofluoromethane	98%	88-	114%	
17060-07-0	1,2-Dichloroethane-D4	105%	81-	122%	
2037-26-5	Toluene-D8	100%	88-	110%	
460-00-4	4-Bromofluorobenzene	99%	88-	115%	

Blank Spike Summary Job Number: T4827

Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB519-BS	B106064.D	1	07/27/03	BC	n/a	n/a	VB519

The QC reported here applies to the following samples:

Method: SW846 8260B

T4827-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene ,	25	21.4	86	77-128
108-90-7	Chlorobenzene	25	23.0	92	77-120
67-66-3	Chloroform	25	21.2	85	77-122
56-23-5	Carbon tetrachloride	25	20.0	80	73-135
75-35-4	1.1-Dichloroethylene	25	25.1	100	70-134
107-06-2	1,2-Dichloroethane	25	21.8	87	71-117
78-93~3	Methyl ethyl ketone	125	94.5	76	63-128
127-18-4	Tetrachloroethylene	25	23.7	95	69-134
79-01-6	Trichloroethylene	25	23.6	94	75~128
75-01-4	Vinyl chloride	25	26.5	106	72-139
CAS No.	Surrogate Recoveries	BSP	Liı	mits	
1868-53-7	Dibromofluoromethane	96%	88-	114%	
17060-07-0	1,2-Dichloroethane-D4	107%	81-	122%	
2037-26-5	Toluene-D8	101%	88-	-110%	
460-00-4	4-Bromofluorobenzene	99%	88	-115%	

Leachate Blank Summary

Job Number: T4827

Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OPZ364-MB <sup>a</sup>	B106046.D	10	07/26/03	BC	07/28/03	OP2364	VB517

The QC reported here applies to the following samples:

Method: SW846 8260B

T4827-1, T4827-5, T4827-6, T4827-7

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	50	ug/l	
108-90-7	Chlorobenzene	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	50	ug/i	
75-35-4	1,1-Dichloroethylene	ND	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	ug/l	
127-18-4	Tetrachloroethylene	ND	50	ug/I	
79-01-6	Trichloroethylene	ND	50	ug/l	
75-01-4	Vinyl chloride	ND	50	ug/l	
CAS No.	Surrogate Recoveries		Limi	ts	
1868-53-7	Dibromofluoromethane	105%	88-11	4%	
17060-07-0	1,2-Dichloroethane-D4	109%	81-12	2%	
2037-26~5	Toluene-D8	100%	88-11	.0%	
460-00-4	4-Bromofluorobenzene	98%	88-11	.5%	

<sup>(</sup>a) Shared QC with batch VB522,

Method Blank Summary

Job Number: T4827

Account: EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB519-MB	B106065.D	1	07/27/03	BC	n/a	n/a	VB519

The QC reported here applies to the following samples:

Method: SW846 8260B

T4827-1

CAS No.	Compound	Result	RL	Units Q
71-43-2	Benzene	ND	5.0	ug/l
108-90-7	Chlorobenzene	ND	5.0	ug/l
67-66-3	Chloroform	ND	5.0	ug/l
56-23-5	Carbon tetrachloride	ND	5.0	ug/l
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/l
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l
78-93-3	Methyl ethyl ketone	ND	10	ug/l
127-18-4	Tetrachloroethylene	ND	5.0	ug/l
79-01-6	Trichloroethylene	ND	5_0	ug/l
75-01-4	Vinyl chloride	ND	5.0	ug/l
CAS No.	Surrogate Recoveries		Limits	
1868-53-7	Dibromofluoromethane	98%	88-114	%
17060-07-0	1,2-Dichloroethane-D4	107%	81-1229	%
2037-26-5	Toluene-D8	99%	88-110	%
460-00-4	4-Bromofluorobenzene	98%	88-1159	%

Matrix Spike Summary Job Number: T4827

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Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T4827-1MS <sup>a</sup>	B106081.D	500	07/27/03	BC	n/a	n/a	VB519
T4827-1	B106079.D	50	07/27/03	BC	07/28/03	OP2364	VB519

The QC reported here applies to the following samples:

Method: SW846 8260B

T4827-1

CAS No.	Compound	T4827-1 ug/1	Q	Spike ug/I	MS ug/l	MS %	Limits
71-43-2	Benzene .	72.8	J	12500	10100	80*	82-124
108-90-7	Chlorobenzene	ND		12500	11300	90	85-112
67-66-3	Chloroform	ND		12500	11000	88	83-118
56-23-5	Carbon tetrachloride	ND		12500	9560	<b>76*</b>	78-136
75-35-4	1,1-Dichloroethylene	ND		12500	11500	92	72-136
107-06-2	1,2-Dichloroethane	ND		12500	11100	89	74-118
78-93-3	Methyl ethyl ketone	ND		62500	48400	77	58-127
127-18-4	Tetrachloroethylene	ND		12500	10900	87	80-127
79-01-6	Trichloroethylene	ND		12500	10400	83	81-124
75-01-4	Vînyl chloride	ND		12500	11700	94	72-140
CAS No.	Surrogate Recoveries	MS		T4827-1	Lim	its	
1868-53-7	Dibromofluoromethane	103%		105%	88-1	14%	
17060-07-0	1,2-Dichloroethane-D4	105%		105%	81-1	<b>22</b> %	
2037-26-5	Toluene-D8	99%		100%	88-1	10%	
460-00-4	4-Bromofluorobenzene	97%		99%	88-1	15%	

<sup>(</sup>a) TCLP MSD was not analyzed due to instrument failure. Batch MS/MSD for water samples were analyzed.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T4827 Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample .	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T4827-5MS	B106060.D	10	07/26/03	BC	n/a	n/a	VB517
T4827-5MSD	B106061.D	10	07/26/03	BC	n/a	n/a	VB517
T4827-5	B106047.D	10	07/26/03	BC	07/28/03	OP2364	VB517

The QC reported here applies to the following samples:

Method: SW846 8260B

T4827-5, T4827-6, T4827-7

CAS No.	Compound	T4827-5 ug/l Q		Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene ,	ND	7	250	211	84	211	84	0	82~124/10
108-90-7	Chlorobenzene	ND	2	250	226	90	240	96	6	85-112/10
67-66-3	Chloroform	ND	2	250	237	95	243	97	3	83-118/11
56-23-5	Carbon tetrachloride	ND	2	250	197	79	214	86	8	78-136/12
75-35-4	1,1-Dichloroethylene	ND	2	250	253	101	284	114	12	72-136/12
107-06-2	1,2-Dichloroethane	ND	7	250	243	97	253	101	4	74-118/11
78-93-3	Methyl ethyl ketone	ND	1	1250	971	78	980	78	1	58-127/15
127-18-4	Tetrachloroethylene	ND	2	250	243	97	<b>236</b>	94	3	80-127/11
79-01-6	Trichloroethylene	ND	2	250	239	96	248	99	4	81-124/10
75-01-4	Vinyl chloride	ND	2	250	252	101	304	122	19*	72-140/18
CAS No.	Surrogate Recoveries	MS	ì	MSD	T48	327-5	Limits			
1868-53-7	Dibromofluoromethane	108%	]	112%	101	%	88-1149	6		
17060-0 <b>7</b> -0	1.2-Dichloroethane-D4	106%	1	110%	107	%	81-1229	6		
2037-26-5	Toluene-D8	97%	9	92%	100	%	88-1109	6		
460-00-4	4-Bromofluorobenzene	87%*	9	90%	989	6	88-1159	6		

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Blank Spike Summary Job Number: T4827

Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date 07/19/03	Pre
OP2315-BS1	A04982.D	1	07/21/03	SC		OPZ

The QC reported here applies to the following samples:

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T4827-1, T4827-3, T4827-5, T4827-6, T4827-7

	_	Spike	BSP	BSP	
CAS No.	Compound	ug/l	ug/l	%	Limits
95-48-7	2-Methylphenol	500	321	64	33-98
	3&4-Methylphenol	1000	525	<b>5</b> 3	40-102
87~86-5	Pentachlorophenol	500	508	102	45-110
95-95-4	2,4.5-Trichlorophenol	500	392	78	48-105
88-06-2	2,4,6-Trichlorophenol	500	361	72	46-106
106-46-7	1,4-Dichlorobenzene	500	343	69	32-85
121-14-2	2,4-Dinitrotoluene	50 <b>0</b>	388	78	53-109
118-74-1	Hexachlorobenzene	500	368	74	50-105
87-68-3	Hexachlorobutadiene	500	280	56	19-80
67-72-1	Hexachloroethane	500	338	68	26-78
98-95-3	Nitrobenzene	500	385	77	45-105
110-86-1	Pyridine	500	181	36	22-82
CAS No.	Surrogate Recoveries	BSP	Lii	mits	
367-12-4	2-Fluorophenol	45%	10-	-91%	
4165-62-2	Phenol-d5	22%	10-	-94%	
118-79-6	2,4,6-Tribromophenol	84%	27-	-125%	
4165-60-0	Nitrobenzene-d5	84%	34-	-111%	
321-60-8	2-Fluorobiphenyl	70%	32-	-108%	
1718-51-0	Terphenyl-d14	88%	43-	-121%	

Blank Spike Summary Job Number: T4827

T4827

EPASTXEP El Paso Corporation - El Paso, TX

Account: Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date 07/19/03	Prep Batch	Analytical Batch
OP2315-BS1	A04982.D	I	07/21/03	SC		OP2315	EA523

The QC reported here applies to the following samples:

Method: SW846 8270C

T4827-1, T4827-3, T4827-5, T4827-6, T4827-7

CAS No.	Compound	Spike ug/l	BSP ug/1	BSP %	Limits
95-48-7	2-Methylphenol	500	321	64	33-98
	3&4-Methylphenol	1000	525	53	40-102
87~86-5	Pentachlorophenol	500	508	102	45-110
95-95-4	2,4,5-Trichlorophenol	500	392	78	48-105
88~06~2	2,4,6-Trichlorophenol	500	361	<b>7</b> 2	46-106
106-46-7	1,4-Dichlorobenzene	500	343	69	32-85
121-14-2	2,4-Dinitrotoluene	500	388	78	53-109
118-74-1	Hexachlorobenzene	500	368	74	50-105
87-68-3	Hexachlorobutadiene	500	280	56	19-80
67-72-1	Hexachloroethane	500	338	68	26-78
98-95-3	Nitrobenzene	500	385	77	45-105
110-86-1	Pyridine	50 <b>0</b>	181	36	22-82
CAS No.	Surrogate Recoveries	BSP	Lit	nits	
367-12-4	2-Fluorophenol	45%	10-	91%	
4165-62-2	Phenol-d5	22%	10-	94%	
118-79-6	2,4,6-Tribromophenol	84%	27-	125%	
4165~60-0	Nitrobenzene-d5	84%	34-	111%	
321-60-8	2-Fluorobiphenyl	70%	3 <b>z</b> -	108%	
1718-51-0	Terphenyl-d14	88%	43-	121%	

Blank Spike Summary Job Number: T4827

Account:

EPASTXEP El Paso Corporation - El Paso. TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date 07/19/03	Prep Batch	Analytical Batch
OP2315-BS2	A04983.D	1	07/21/03	SC		OP2315	EA523

The QC reported here applies to the following samples:

Method: SW846 8270C

T4827-1, T4827-3, T4827-5, T4827-6, T4827-7

		Spike	BSP	BSP	
CAS No.	Compound	ug/l	ug/l	%	Limits
95-48-7	2-Methylphenol ,	<b>500</b>	331	66	33-98
	3&4-Methylphenol	1000	563	56	40-102
87-86-5	Pentachlorophenol	500	526	105	45-110
95-95-4	2,4,5-Trichlorophenol	500	430	86	48-105
88-06-2	2,4,6-Trichlorophenol	500	385	77	46-106
106-46-7	1,4-Dichlorobenzene	500	364	73	32-85
121-14-2	2,4-Dinitrotoluene	500	35 <b>7</b>	71	53-109
118-74-1	Hexachlorobenzene	500	414	83	<b>50</b> -105
87-68-3	Hexachlorobutadiene	500	293	59	19-80
67-72-1	Hexachloroethane	500	366	73	26-78
98-95-3	Nitrobenzene	500	393	79	45-105
110-86-1	Pyridine	500	163	33	22-82
CAS No.	Surrogate Recoveries	BSP	Li	mits	
367-12-4	2-Fluorophenol	40%	10	-91%	
4165-62-2	Phenol-d5	23%	10	-94%	
118-79-6	2,4,6-Tribromophenol	87%	. 27	-125%	
4165-60-0	Nitrobenzene-d5	88%	34	-111%	
321~60-8	2-Fluorobiphenyl	75%	32	-108%	
1718-51-0	Terphenyl-d14	91%	43	-121%	

Duplicate Summary Job Number: T4827

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Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
OP2315-DUP	A04996.D	1	07/21/03	SC	07/19/03	OP2315	EA523
T4827-6	A04993.D	1	07/21/03	SC	07/19/03	OP2315	EA523

The QC reported here applies to the following samples:

Method: SW846 8270C

T4827-1, T4827-3, T4827-5, T4827-6, T4827-7

CAS No.	Compound	T4827-6 ug/l Q	DUP ug/l	Q RPD	Limits	
95-48-7	2-Methylphenol ,	ND	ND	пс	30	
	3&4-Methylphenol	ND	ND	nc	44	
87-86-5	Pentachlorophenol	ND	ND	ПC	44	
95~95-4	2,4,5-Trichlorophenol	ND	ND	nc	40	
88-06-2	2.4.6-Trichlorophenol	ND	ND	nc	43	
106-46-7	1,4-Dichlorobenzene	ND	ND	пс	58	
121-14-2	2,4-Dînitrotoluene	ND	ND	nc	39	
118-74-1	Hexachlorobenzene	ND	ND	ПC	33	
87-68-3	Hexachlorobutadiene	ND	ND	nc	<b>57</b>	
67-72-1	Hexachloroethane	ND	ND	nc	56	
98-95-3	Nitrobenzene	ND	ND	nc	42	
110-86-1	Pyridine	ND	ND	nc	67	
CAS No.	Surrogate Recoveries	DUP	T4827-6	Limits	Limits	
367-12-4	2-Fluorophenol	35%	41%	10-919	10-91%	
4165-62-2	Phenol-d5	25%	33%	10-949	10-94%	
118-79-6	2,4,6-Tribromophenol	74%	81%	27-125	27-125%	
4165-60-0	Nitrobenzene-d5	68%	75%	34-111	34-111%	
321-60-8	2-Fluorobiphenyl	65%	68%	32-108	%	
1718-51-0	Terphenyl-d14	66%	83%	43-121	%	

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# Leachate Blank Summary Job Number: T4827

Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2315-LB1	A04984.D	1	07/21/03	SC	07/19/03	OP2315	EA523

The QC reported here applies to the following samples:

Method: SW846 8270C

T4827-1, T4827-3, T4827-5, T4827-6, T4827-7

CAS No.	Compound	Result	RL	Units Q
95-48-7	2-Methylphenol	ND	50	ug/l
	3&4-Methylphenol	ND	50	ug/l
87-86-5	Pentachlorophenol	ND	250	ug/l
95-95-4	2,4,5-Trichlorophenol	ND	50	ug/I
88-06-2	2.4.6-Trichlorophenol	ND	50	ug/l
106-46-7	1,4-Dichlorobenzene	ND	50	ug/l
121-14-2	2,4-Dinitrotoluene	ND	50	ug/l
118-74-1	Hexachlorobenzene	ND	50	ug/l
87-68-3	Hexachlorobutadiene	ND	50	ug/l
67-72-1	Hexachloroethane	ND	50	ug/l
98-95-3	Nitrobenzene	ND	50	ug/l
110-86-1	Pyridine	ND	50	ug/l
CAS No.	Surrogate Recoveries		Limits	
367-12-4	2-Fluorophenol	40%	10-91%	,
4165-62-2	Phenol-d5	19%	10-94%	)
118-79-6	2,4,6-Tribromophenol	73%	27-1259	%
4165-60-0	Nitrobenzene-d5	82%	34-1119	%
321-60-8	2-Fluorobiphenyl	79%	32-108	%
1718-51-0	Terphenyl-d14	94%	43-121	%

Leachate Blank Summary

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Job Number: T4827

Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2315-LBZ	A04985.D	1	07/21/03	SC	07/19/03	OP2315	EA523

The QC reported here applies to the following samples:

Method: SW846 8270C

T4827-1, T4827-3. T4827-5, T4827-6, T4827-7

CAS No.	Compound	Result	RL	Units	Q
95-48-7	2-Methylphenol ,	ND	50	ug/I	
	3&4-Methylphenol	ND	50	ug/I	
87-86-5	Pentachlorophenol	ND	250	ug/l	
95-95-4	2.4,5-Trichlorophenol	ND	50	ug/I	
88-06-2	2,4,6-Trichlorophenol	ND	50	ug/l	
106-46-7	1.4-Dichlorobenzene	ND	50	ug/1	
121-14-2	2,4-Dinitrotoluene	ND	50	ug/l	
118-74-1	Hexachlorobenzene	ND	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	ug/I	
67-72-1	Hexachloroethane	ND	50	ug/l	
98-95-3	Nitrobenzene	ND	50	ug/l	
110-86-1	Pyridine	ND	50	ug/l	
CAS No.	Surrogate Recoveries		Limits		
367-12-4	2-Fluorophenol	41%	10-91%	, 3	
4165-62-2	Phenol-d5	20%	10-94%	, a	
118-79-6	2,4,6-Tribromophenol	70%	27-125	%	
4165-60-0	Nitrobenzene-d5	70%	34-111	%	
321-60-8	2-Fluorobiphenyl	65%	32-108	%	
1718-51-0	Terphenyl-d14	87%	43-121	%	

# Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: T4827 Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample .	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2315-MS	A04994.D	1	07/21/03	SC	07/19/03	OP2315	EA523
OP2315-MSD	A04995.D	1	07/21/03	SC	07/19/03	OP2315	EA523
T4827-5	A04992.D	1	07/21/03	SC	07/19/03	OP2315	EA523

The QC reported here applies to the following samples:

Method: SW846 8270C

T4827-1, T4827-3, T4827-5, T4827-6, T4827-7

CAS No.	Compound	T4827-5 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-48-7	2-Methylphenol ,	ND	500	372	74	335	67	10	37-98/25
	3&4-Methylphenol	ND	1000	5 <b>87</b>	59	530	53	10	31-90/21
87-86-5	Pentachlorophenol	ND	500	736	147* a	779	156* a	6	49-115/29
95-95-4	2,4,5-Trichlorophenol	ND	500	479	96	451	90	6	48-111/16
88-06-2	2.4,6-Trichlorophenol	ND	500	415	83	421	84	1	49-104/18
106-46-7	1,4-Dichlorobenzene	ND	500	374	<b>7</b> 5	337	67	10	35-86/17
121-14-2	2.4-Dinitrotoluene	ND	500	395	79	390	78	1	51-113/20
118-74-1	Hexachlorobenzene	ND	500	417	83	421	84	1	48-112/18
87-68-3	Hexachlorobutadiene	ND	500	299	60	284	57	5	24-86/29
67-72-1	Hexachloroethane	ND	500	353	71	350	70	I	26-83/19
98-95-3	Nitrobenzene	ND	500	444	89	419	84	6	45-106/18
110-86-1	Pyridine	ND	500	170	34	176	35	3	26-90/26
CAS No.	Surrogate Recoveries	MS	MSD	T48	327-5	Limits			
367-12-4	2-Fluorophenol	45%	42%	409	6	10-91%			
4165-62-2	Phenol-d5	34%	32%	299	6	10-94%			
118-79-6	2,4,6-Tribromophenol	90%	91%	919	6	27-125%	<b>,</b>		
4165-60-0	Nitrobenzene-d5	85%	83%	869	6	34-111%	5		
321-60-8	2-Fluorobiphenyl	74%	73%	739	6	32-108%	,		
1718-51-0	Terphenyl-d14	91%	88%	989	6	43-121%	<b>,</b>		

<sup>(</sup>a) Outside control limits due to matrix interference.

#### Accutest Laboratories

GC Semi-volatiles

QC Data Summaries

# Includes the following where applicable:

- · Method Blank Summaries
- Blank Spike Summaries
- · Matrix Spike and Duplicate Summarles

Blank Spike Summary Job Number: T4827

Page 1 of 1

Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2309-BS	GG14141.D	1	07/19/03	GP	07/18/03	OP2309	GGG422

The QC reported here applies to the following samples:

Method: SW846 8082

T4827-1, T4827-5, T4827-6, T4827-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	Aroclor 1016 Aroclor 1260	66.7 66.7	52.2 54.3	78 81	44-127 48-125
CAS No.	Surrogate Recoveries	BSP	Lin	nits	
877-09-8 2051-24-3	Tetrachloro-m-xylene Decachlorobiphenyl	88% 79%		138% 140%	

Page 1 of 1

Method Blank Summary

Job Number: T4827

Account:

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2309-MB	GG14140.D	1	07/19/03	GP	07/18/03	OP2309	GGG422

The QC reported here applies to the following samples:

Method: SW846 8082

T4827-1, T4827-5, T4827-6, T4827-7

CAS No.	Сотроилд	Result	RL	Units	Q
12674-11-2	Aroclor 1016 ,	ND	17	ug/kg	
11104-28-2	Aroclor 1221	ND	17	ug/kg	
11141-16-5	Aroclor 1232	ND	17	ug/kg	
53469-21-9	Aroclor 1242	ND	17	ug/kg	
12672-29-6	Aroclor 1248	ND	17	ug/kg	
11097-69-1	Araclor 1254	ND	17	ug/kg	
11096-82-5	Aroclor 1260	ND	17	ug/kg	
CAS No.	Surrogate Recoveries		Limi	ts	
877-09-8	Tetrachloro-m-xylene	86%	34-13	88%	
2051-24-3	Decachlorobiphenyl	77%	27-14	10%	

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: Account:

T4827

EPASTXEP El Paso Corporation - El Paso, TX

Project:

2003070844

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP2309-MS	GG14142.D	1	07/19/03	G <b>P</b>	07/21/03	OP2309	GGG422
OP2309-MSD	GG14143.D	1	07/19/03	GP	07/21/03	OP2309	GGG422
T4874-1	GG14144.D	1	07/19/03	GP	07/18/03	OP2309	GGG422

The QC reported here applies to the following samples:

Method: SW846 8082

T4827-1, T4827-5, T4827-6, T4827-7

CAS No.	Compound	T4874-1 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
11104~28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND ND	80.3 80.3	71.8 ND ND ND ND ND ND	89 94	83.2 ND ND ND ND ND ND	104 126* b	15 nc nc nc nc nc nc	40-127/22 50-150/30 a 50-150/30 a 50-150/30 a 50-150/30 a 50-150/30 a 62-106/26
CAS No.	Surrogate Recoveries	MS	MSD	T48	374-1	Limits			
877-09-8 2051-24-3	Tetrachloro-m-xylene Decachlorobiphenyl	90% 86%	98% 85%	829 739	_	34-138% 27-140%			

<sup>(</sup>a) Advisory control limits.

<sup>(</sup>b) Outside control limits due to matrix interference.

<sup>(</sup>c) High RPD due to possible sample nonhomogenity.

Accutest Laboratories

Metals Analysis

QC Data Summaries

# Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- · Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: 2003070844

QC Batch ID: MP1733 Matrix Type: LEACHATE Methods: SW846 60108

Units: mg/l

Prep Date:

07/23/03

				077 207 30					
Metal	RL	IDL	MB raw	final				 <b></b>	
Aluminum	2.0	.14						 	_
Antimony	0.10	.039					,	•	
Arsenic	0.10	.029	-0.026	<0.10		,			
Barium	0.10	.0017	0.0035	<0.10					
Beryllium	0.10	.00085							
Boron	5.0	.028							
Cadmium	0.040	.0024	0.0011	<0.040					
Calcium	10	.048	د						
Chromium	0.20	.0078	0.11	<0.20					
Cobalt	0.10	.011							
Соррег	0.20	.033							
Iron	3.0	,16							
Lead	0.10	,019	0.0015	<0.10					
Lithium	0.10	.0011							
Magnesium	10	.053							
Manganèse	0.30	,0019							
Molybdenum	0.20	.013							
Nickel	0.40	.011							
Potassium	10	. 56							
Selenium	0,10	.022	۵.0021	<0.10					
Silicon	12	.054							
Silver	0.050	.0094	-0.0020	<0.050	•				
Sodlum	10	.091							
Strontlum	0.10	.00058							
Thallium	0.10	.025							
Titanium	0.10	.0039							
Vanadium	0.10	.0087							
Zinc	0.20	.021							

Associated samples MP1733: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-7, T4827-8

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: Z0D3070844

QC Betch ID: MP1733 Matrix Type: LEACHATE Methods: SW846 6010B

Units: mg/l

Prep Date;

07/23/03

					01/23/	
Meta I	T4827-4 Original	MSD	Spikelo MPTTC1	t % Rec	MSD RPD	QC Limit
Aluminum						***
Antimony						, , , , , , , , , , , , , , , , , , , ,
Arsenic	0.0	5.1	5.0	102.0	0.0	
8arium	0.018	0.41	0.40	98.0	0,0	
Beryllium						
Boron						
Cadmium	0.0	0.38	0.40	95.Q	0.0	
Calcium			•			
Chromium	0.0	0.38	0.40	95.0	0.0	
Cobalt						
Copper						
Iron						
Lead	0.027	4.7	5,0	93.5	0.0	
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.0	0.91	1.0	91.0	4.3	
Silicon						
Silver	0.0	0,21	0.40	52.5N(a)	0.0	
Sodium						
Strontium						
Thallium						
Titanlum						
Vanadium						

Associated samples MP1733: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, Y4827-7, T4827-8

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

Zinc

(anr) Analyte not requested

<sup>(</sup>N) Matrix Spike Rec. outside of QC Ilmits

<sup>(</sup>a) Spike recovery Indicates possible matrix interference. Post-spike recovery for Ag(T4827-4):103.9%

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: 2003070844

QC Batch ID: MP1733 Matrix Type: LEACHATE

Methods: SW846 60108

Units: mq/1

Prep Date:			07/23/0	3
Metal	8SP Result	Spikelot MPTTC1	% Rec	QC Limits
Aluminum			~~~	
Antimony				
Arsenic	5.4	5.0	108.0	80-120
Barium	0.40	0.40	100.0	80-120
<b>Beryllium</b>				
Boron				
Cadmium	0.38	0.40	95.0	80~120
Calcium		:		
Chromium	0.38	0.40	95,0	80-120
Cobalt				
Copper				
Iron				
Lead	4.8	5.0	96.0	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potessium				
Selenium	1.0	1.0	100.0	80-120
Silicon				
Silver	0.37	σ,40	92.5	80-120
Sodium				
Strontium				
Thallium				
Titanium				
MuibeneV			•	
Zinc				

Associated samples MP1733: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-7, T4827-8

Results < IDL are shown as zero for calculation purposes (') Outside of QC limits (anr) Analyte not requested

#### SERIAL DILUTION RESULTS SUMMARY

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: 2003070844

QC Batch ID: MP1733 Matrix Type: LEACHATE Methods: SW846 6010B

Units: ug/l

Prep Date:

07/23/03

Prep Date:			07/23/03	ſ			
Metal	T4827-4 Original	SDL 10	: 50RPD	QC Limits	 ·		
Aluminum		~	V				
Antimony						,	•
Arsenic	0.00	0.00	NC	0-10	*		
Barium	18.5	0.00	100.0(å)	0-10			
Beryllium			نيو				
Вогоп			. pi . 2 				
Cadmium	0.00	0.00		0-10			
Calcium			*				
Chromlum	0.00	0.00	NC	0-10			
Cobalt							
Copper							
lron							
Lead	26.9	0.00	100.0(a)	0-10			
Lithium			:				
Magnesium							
Manganese			\$r				
Molybdenum							
Nickel			-, .				
Potassium							
Seienium	0.00	0.00	NC .	0-10			
Silicon			* .				
Silver	0.00	0.00	NC	0-10			
Sodium							
Strontium							
Thallium							
Titanium							
Vanadlum							
Zinc							

Associated samples MP1733: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-7, T4827-8

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits (anr) Analyte not requested

<sup>(</sup>a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: T4827 Account: EPASTXEP - E1 Paso Corporation - E1 Paso, TX Project: 2003070844

QC Batch ID: MP1734 Matrix Type: LEACHATE Methods: SW846 60108

Units: mg/i

Prep Date:

07/23/03

Prep vate:				07/23/03	
Metal	RL	IDL	MB raw	Final	
Aluminum	2.0	.14			~
Antimony	0.10	,039		•	•
Arsenic	0.10	.029	-0.021	<0.10	
Barium ·	0.10	.0017	0.078	<0.10	
Beryllium	0.10	. 00085			
Boron	5.0	.028			
Cadmium	0.040	.0024	-0.00069	<0.040	
Calcium	10	.048			
Chromium	0.20	.0078	0.00023	<0.20	
Cobalt	0.10	.011			
Соррег	0.20	.033			
Iron	3.0	.16			
Lead	0.10	,019	0.0090	<0.10	
Lithium	0.10	.0011			
Magnesium	10	.053			
Manganese	0.30	,0019			
MolyÞdenum	0,20	.013			
Nickel	0.40	.011			
Potassium	10	. 56			
Selenium	٥.10	,022	0.0089	<0,10	
Silicon	12	.054			
Silver	0.050	.0094			
Sodium	10	.091			
Strontlum	0.10	.00058			
Thallium	0.10	.025			
Titanium	0.10	,0039			
Vanadium	0.10	.0087			
Zinc	0.20	.021			

Associated samples MP1734: T4827-6

Results < IDL are shown as zero for calculation purposes (^) Outside of QC limits (anr) Analyte not requested

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: 2003070844

QC Batch ID: MP1734 Matrix Type: LEACHATE Methods: SW846 60108

Units: mg/l

07/23/03

07/23/03

Prep Date:			07/23/03	1			_	07/23/03	}	
Metal	T4827-6 Original	DUP	RPD	QC Limits	T4827-6 Original	MS	Spikelot MPTTC1	% Rec	QC Limits	
Aluminum										
Antimony								,		1
Arsenic	0.0	0.0	NC	0-20	0.0	5.5	5.0	110.0	75-125	
Barium	0.25	0.24	4.1	0-20	0.25	0.66	0.40	102.5	75-125	
Beryllium			•						,	
Boron									,	
Cadmlum	0.0	0.0	NC	0-20	0.0	0.38	0.40	95.0	75-125	
Calcium			•	•						
Chromium	0.055	0,050	9.5	0~20	0,055	0.44	0.40	98.3	. 75-125	
Cobalt									1	
Copper								. •		
Irod										
Lead	0.048	0.035	31.3 (a)	0~20	0.048	4.8	5.0	95.0	75-125	
Lithlum										
Magnes I um				,				175		
Manganese				•						
Molybdenum							,			
Nickel							ì			
Potassium							:	i, a M		
Selenium	0.0	0.0		0~20	0.0	0.89	1.0	69:0	75-125	
Sillcon			* ?	,						
Silver								Me in it is Market in its		
Sodium			`.							
Strontium			•					:		
Thalllum										
Titanium										
Vanadium										

Associated samples MP1734: T4827-6

Results < 10L are shown as zero for calculation purposes (\*) Outside of QC limits

Zinc

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

Login Number: T4827 Account: EPASTXEP > E1 Paso Corporation - E1 Paso. TX Project: 2003070844

QC Batch ID: MP1734 Matrix Type: LEACHATE

Methods: SW846 6010B

Units: mg/l

Prep Date:

07/23/03

Prep Date:					07/2	3/03
Metal	T4827-6 Original	KSD	Spikelot MPTTC1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						·
Arsenic	0.0	5.3	5.0	<b>706.0</b>	3.7	•
Barium	0.25	D. 64	0.40	97.5	3.1	
Beryllium						•
Boron						
Cadmium	0.0	0.37	0.40	92,5	2.7	
Calcium			,			$\mathcal{L}_{\mathcal{L}}$
Chromium	0.055	0.43	0.40	93.8	2.3	
Cobalt						
Соррег						
Iron						
Lesd	0,048	4.7	5.0	93.0	2.1	:
Lithium						
Magn⊖sium						
Manganese						2
Molybdenum						
Nickel						**************************************
Potassium						- 12 - 40
Selenium	0,0	0,87	1.0	87.0	2.3	
Silicon						jul –
Silver						
Sodium						
Strontium						
Thallium						
Titanium						
Vanadium						
Zinc						

Associated samples MP1734: T4827-6

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso. TX Project: 2003070844

QC Batch ID: MP1734 Matrix Type: LEACHATE Methods: SW846 6010B

Units: mg/l

Prep Date:

07/23/03

Prep Date:		·	07/23/0	13
Metal	βSP Result	Spikelo MPTTC1	t % Rec	QC Limits
Aluminum				
Antimony				
Arsenic	5.4	5.0	108.0	80-120
Barium	0.48	0.40	120.0	80-120
Beryllium				
Boron				
Cadmium	0.38	0.40	95.0	80-120
Ca(cium			•	•
Chromium	0.39	0.40	97.5	80-120
Cobalt				
Copper				
1ron				
Lead	4.8	S.D	96.0	80-12 <b>0</b>
Lithium				
Magnesium				
Manganese				
Molybdenum				:
Nickel				8
Potesslum				Y
Setenium	1.0	1.0	100.0	. 80-120
Silicon				
Silver				
5odium			4	
Strontium				•
Thellium				•
Titanlum				
Vanadium				
Zinc				

Associated samples MP1734: T4827-6

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits  $\dot{}$ 

(anr) Analyte not requested

#### SERIAL DILUTION RESULTS SUMMARY

Login Number: T4827 Account: EPASTXEP ~ El Paso Corporation - El Paso, TX Project: 2003070844

QC Batch ID: MP1734 Matrix Type: LEACHATE Methods: SW846 6010B

Units: ug/i

Prep Date:

07/23/03

Prep Date:	_		07/23/03	}					
Metal	T4827-6 Original	SDL 10;	50RPD	QC Limits					
Aluminum				******	 				
Antimony							•		•
Arsenic	0.00	0,00	NC	0-10		,			
Barlum	254	<b>Z64</b>	4.0	0-10					
Beryllium									
Boron									
Cadmium	0.00	0.00	NC	0-10					
Calcium			, .						
Chromium	54.7	53.8	1.6	0-10					
Cobait									
Copper									
lron									
Lead	47.9	0.00	100.0(a)	0-10					
_ithlum									
lagnes i um									
fanganese					÷				
Molybdenum			:						
Nickel			•						
otassium									
Selenium	0.00	0.00	NC	0~10					
Silicon									
Silver									
Sodium									
Strontium			,						
Thallium									
[itanium									
/anadium									
Zinc									

Associated samples MP1734; T4827-6

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: 2003070844

QC Batch ID: MP1739 Matrix Type: LEACHATE Methode: SW846 7470A

Units: mg/1

Prep Date:

07/24/03

			<u> </u>	
			MB	
Metal	RL	IDL	raw	finat
	·			

-0.0016 <0.0040 Mercury 0.0040 .0006

Associated samples MP1739: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-7, T4827-8

Results < 10L are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: 2003070844

QC Batch ID: MP1739 Matrix Type: LEACHATE Methods: SW846 7470A

Units: mg/I

Prep Date:

07/24/03

07/24/03

Metal	T4827-4 Original	DUP	RPD	QC Limits	T4827-4 Original	MS	Spikelot HGTXW51	% Rec	QC Limits
Mercury	0.010	0.011	9.5	0-20	0.010	0.020	0.10	10.0N(a)	75-125

Associated samples MP1739: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-7, T4827-8

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference. Post-spike recovery for Mg(T4827-4):88.6%

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX

Project: 2003070844

Methods: SW846 7470A Units: mg/l

QC Batch ID: MP1739 Matrix Type: LEACHATE

Prep Date:

07/24/03

Metal	T4827~4 Original MS0	Spikelot HGTXWS1 % Rec	MSD RPD	QC Limit	,
		<del></del>			 

2.0N (a) 50.0 Метсигу 0.010 0.012 0.10

Associated samples MP1739: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-7, T4827-8

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference. Post-spike recovery for Hg(T4827-4):88,6%

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: 2003070844

QC Batch ID: MP1739 Matrix Type: LEACHATE Methods: SW846 7470A

Units: mg/1

Prep Date:

07/24/03

Associated samples MP1739: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-7, T4827-8

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

#### BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: 2003070844

Methods: SW846 7470A

QC Batch ID: MP1740

Units; mg/I

Matrix Type: LEACHATE

Prep Date: 07/24/03

Metal	RL	IDL	MB raw	Final
Mercury	0.0040	0006	-0 DO1D	

Associated samples MP1740: T4827-6

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

Login Number: T4827 Account: EPASTXEP - £1 Paso Corporation - E1 Paso, TX Project: 2003070844

QC Batch ID: MP1740 Matrix Type: LEACHATE

Methods: SW846 7470A

Units: mg/1

Prep Date:

07/24/03

07/24/03

Metal	T4827-6 Origina		RPD	QC Limits	T4B27~6 Original		Spikelot HGTX <b>WS</b> 1		QC Limits	
Hercury	0.044	0.044	0,0	0-20	0.044	0.14	0.10	96.0	75-125	

Associated samples MP1740: T4827-6

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: 2003070844

Methods: SW846 7470A

Units: mg/l

QC Betch ID: MP1740 Matrix Type: LEACHATE

Prep Date;

07/24/03

Metal	T4827-6	Spikelot	MSD QC
	Original MSD	HGTXWS1 % Rec	RPD Limit
Mercury	0.044 0.1	0.10 106.0	6.9

Associated samples MP1740: T4827-6

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

#### SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T4827 Account: EPASTXEP - E) Paso Corporation - El Paso, TX Project: 2003070844

QC Batch ID; MP1740 Matrix Type: LEACHATE Methods: SW846 7470A Units: mg/l

Prep Date:

07/24/03

Metal	BSP Result	Spikelot HGTXWS1	% Rec	QC Limits
Marcury	0.11	0.10	110 0:41	90-120

Associated samples MP1740: T4827-6

Results < IDL are shown as zero for calculation purposes (\*) Outside of QC limits (anr) Analyte not requested

Accutest Laboratories

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

#### METHOD BLANK AND SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: T4827 Account: EPASTXEP - El Paso Corporation - El Paso, TX Project: 2003070844

Analyte	Batch ID	RL	MB Result	Units	BSP %Recov	QC Limits	
Cyanide Reactivity Sulfide Reactivity	GP1902/GN4688 GP1904/GN4689	0.40 8.0	<0.40 <8.0	mg/kg mg/kg			

Associated Samples:

Batch GP1902: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-6, T4827-7, T4827-8
Batch GP1904: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-6, T4827-7, T4827-8

#### **OUPLICATE RESULTS SUMMARY** GENERAL CHEMISTRY

Login Number: T4827 Account: EPASTXEP - EI Paso Corporation - £1 Paso, TX

Project: 2003070844

Analyte .	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide Reactivity Ignitability (Flashpoint) Ignitability (Flashpoint) Solids, Percent Sulfide Reactivity	GP1902/GN4688 GN4719 GN4719 GN4657 GP1904/GN4689	T4827-1 T4827-1 T4837-1 T4838-14 T4827-1	mg/kg Deg. F Deg. F % mg/kg	<0.40 >210 >210 61.8 <9.0	<0.40 >210 >210 >210 62.4 <9.0	0.0 1.0 0.0	0-20% 0-20% 0-20% 0-20% 0-20%

Associated Samples;
Batch GN4657: T4827-1, T4827-5, T4827-6
Batch GN4719: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-6, T4827-7, T4827-8
Batch GP1902: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-6, T4827-7, T4827-8
Batch GP1904: T4827-1, T4827-2, T4827-3, T4827-4, T4827-5, T4827-6, T4827-7, T4827-8

FM-08-0566 (05/2003)

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<	41
78-	W

Mar. 4. 2004 2:25PM

if sample quarty to lanted . Please analyze in order given FAX: 916-587-3835 δ LABORATORY Accutest REMARKS Laboratory Bervices El Paso Corporation 8645 Railrdad Drive El Paso, Texas 73904 Page TIME 916-687-3729 RESULTO A INVOICES TO: 27.75 × × × × **bcB**<sup>2</sup> ×  $\times$ × REL\_MEDISONED BY: (Sépanday REQUESTED ANALYSIS (midening) ×  $\times$ × × CHAIN OF CUSTODY RECORD COUCOZINE × × × × × Reactivity × × × × × × × × TCLP 8270  $\times$ × × × × TOLP 8260 × × × × (AROR) #IGHM GLOT × × × × × × × ECENTRO AV: (Symmory O O O COMPOSITE OR GRAB O O O O O HARTE CODE: TO TAL NUMBER OF SAMATHOS 16:30 SANCHE PROJECT NAME 40 07/10/03 N 3 4 ω ~ Ø Goldsmith DATE DAYE E I MATRIX Ø O 0 0 S O ഗ S Į Į TIME 8:30 8:49 8:50 8 9:10 928 8 9:40 2003070844 Testing Laboratory EPC Laboratory LSR NUMBER **РІ**вів **З**ятрівг 7/10/2003 7/50/2003 7/10/2003 7/10/2003 7/10/2003 7/10/2003 7/10/2003 7/10/2003 DATE ASTED THRUMOND YME: BANGELENES (Stynumers عر ₽ ø L  $\mathcal{I}$ 4 3 Original Сору Copy

國 図 図 AC	CU	TEST.		ANCE MEMO				
SAMPLE(S) PROJECT FILED BY	Al	PASO			Lab no.	TY	DATE. 7-	-14-0
VARIANCE	- Che	ck applicabl	e items(s):	•			4	
	Insuffice Sample Sample deems Illegible Incomplete for analysis Sample Physic Rush s	cient sample so e bottle received wi es received wi ed necessary. e sample numbers on sample plete instructionallysis, no chair edate, etc. es received in all characteristics amples on holes (specify)	ent for proper a ed broken and/ shout paperwork thout proper re Temperature a per or label mis not the same a ns received with of custody, incomproper conta improper conta ics different tha d because of in	for cap not intack; paperwork of the pap	act. received herr it ha ttle. n paper v e., no req ng instruct g proper ampling s	vork.  juest ctions,  preserval	samples.	
CORRECTI	 VE ΔΩ	TION TAKE						
Notes:	Client i Client i Sample Sample	informed verba informed by miles processed a es preserved b will resample a	Contacted illy, emo/letter/Ema as is. y lab.	 ail. 	K	tion only Samples detection	e. s processed for and noted on s processed wi n limits accepte s rejected.	героrt. th higher
tvoies.								
ROUTING						TH)	alufs	
TITLE	*	DATE	INITIALS	CORRECT	ED?	1,	<i></i>	
Sample Mana Login; Project Mana	-	7-14-03						



#### SAMPLE RECEIPT LOG

	71157	
JOB#:	74827	

DATE/TIME RECEIVED: 7-14-03 0900

•	/	~ 1 -
CLIENT:	2/	PHSU

3. Y N Sample rec 5. Y N Sample vol 7. Y N Chain of Cu 8. Y N Qustody se	eived in undamag eived with proper ume sufficient for ustody matches sa	ged condition pH. analysis. ample IDs c and tamper	6. conta	Y N Sampl Y N Sampl Y N Sampl uners. t on cooler.	es received e received	d within temp, ra in proper contai	inge.	
SAMPLE or FIELD ID	BOTTLE#	DATE SA	MPLED	MATRIX	VOLUME	LOCATION	PRESERV.	PH
	-	7-10	03	2	1000 WM	14	1,2,3,4,5,6	U, <2, >12, NA
2	1	, )		0	r/		1,2,3,4,5,6	U. <2, >12, NA
3	1	, "		O			1,2,3,4,5,6	U. 72. >12, NA
4	)			0			1,2,3,4,5,6	U, <2, >12, NA
5				2			1,2,3,4,5,6	U, <2, >12, NA
6	1			S			1,2,3,4,5,6	U, <2. >12, NA
7	1			2			1,2,3,4,5,6	U, <2, >12, NA
		1					17	

LOCATION: WI: Walk-In VR: Volatile Refrig. SUB: Subcontract EF: Encore Freezer PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: Other

Comments:

pH of waters checked excluding volatiles pH of soils N/A

Delivery method: Courler: V - Tracking#: SEE ATTACHED

COOLER TEMP: 25.3 COOLER TEMP: COOLER TEMP:

COOLER TEMP:\_

1,2,3,4,5,6 U, <2, >12, NA

1,2,3,4,5,6 U, <2, >12, NA

1,2,3,4,5,6 H, <2, >12, NA

1,2,3,4,5,6 U, <2,>12, NA

1,2,3,4,5,6 U, <2, >12, NA

1,2,3,4,5,6 U, <2,>12, NA

Method of sample disposal: (circle one) Accutest disposal Hold Return to Client

Form: SM012

District II.

1000 Rio Brazos Road, Aztec, NM 87410

District III.

1000 Rio Brazos Road, Aztec, NM 87410

District IV.

1220 S. St. Francis Dr. Santa Fe. NM 8756 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Minerals and Natural Resources Oil Conservation Division

MAR 01 2007 South St. Francis Dr. Santa Fe, NM 87505

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUES FOR TAPPING VAL TO ACCE	PT SOLID WASTE
Santa Fe, NM 87505  1. RCRA Exempt: Non-Exempt:     Non-Exempt:	4. Generator: Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Wash Bay
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 4109 E. Main Street, Farmington	Project #92132-001
<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 material is not-hazardous and the Generator's certification of origin. No waste capproved</li> <li>All transporters must certify the wastes delivered are only those consigned for transmarkers.</li> </ul> </li> <li>BRIEF DESCRIPTION OF MATERIAL: <ul> <li>Wash bay grit from 2 bays that have been dried in a drying bed.</li> </ul> </li> <li>CWS and TCLP dated 7/23/03 attached.</li> </ul>	necessary chemical analysis to PROVE the lassified hazardous by listing or testing will be
Estimated Volumecy Known Volume (to be entered by the operator at the e	end of the haul)cy
SIGNATURE Sandra Racility Authorized Agent  TITLE: Landfarm Mar	
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	03 8 1 0 4 1 -
APPROVED BY: Marty J. TITLE: Environme	DATE: 2/2)/04 who Geologich DATE: 3/1/04





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

# BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary



Lori Wrotenbery
Director
il Conservation Division

CERTIFICATE OF WASTESTATUS

	11000	
1. Generator Name and Address	2. Destination Name:	
Halliburton	Envirotech Inc. Soil Remediation Facility	
4109 E Main 5T	Landfarm #2	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hilltop, New Mexico	
FarminsTow N.M. 87402		
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):	
Halliburton	Hall, burton	
4109 Eman NM 87407	4109 E Muin	
attach list of originating sites as appropriate	Farmington N.M. 87402	
Wash bay Grit From Z Ba	ys That Have Been Dried	
ING Danne Rod		
Nym3 wev.	:	
MCIA DK 2021		
Print Name	representative for :	
11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Conservation and Recovery Act (RCRA) and Environmental Protection	do hereby certify that, according to the Resource	
Conservation and Recovery Act (RCRA) and Environmental Protection	Agency's July, 1988, regulatory determination, the above	
lescribed waste is: (Check appropriate classification)		
EXEMPT oilfield waste XNON-EXEMI	PT oilfield waste which is non-hazardous by characteristic	
analysis or l	by product identification	
and that nothing has been added to the exempt or non-exempt non -haz	zardous waste defined above.	
or NON-EXEMPT waste the following documentation is attached (ch	neck annronriate items):	
MSDS InformationOther (description		
X RCRA Hazardous Waste Analysis	•	
Chain of Custody		
his waste is in compliance with Regulated Levels of Naturally Occ	curring Radioactive Material (NORM) pursuant to 20	
MAC 3.1 subpart 1403.C and D.		
Same (Original Signature):	the state of the s	
m + in 1 Court of Sign	`	
Title: Materia! CON (10) SUPV.		
Phone Number: 53-324-355		
Date: 2-23-04		



# REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP

Printed Name

Title / Agency

**Address** 

Signature

Date



## SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client:

Halliburton

Project #:

92132-001

Sample ID:

2003 Wash Bay Sludge

Date Reported:

07-23-03

Lab ID#:

26147

Date Sampled:

Sample Matrix:

Soil

07-23-03 Date Received:

Preservative:

Cool

Date Analyzed:

07-23-03

Condition:

Cool and Intact

Chain of Custody:

07-23-03 11169

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 6.78

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:

Halliburton.



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Extracted:	07-23-03
Preservative:	Cool	Date Analyzed:	07-25-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0182	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0073	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	NĎ	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Halliburton.

Analyst C. Cylina

Mistene m Walters
Review



### EPA METHOD 8040 PHENOLS

Client:	Halliburton	Proiect #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Extracted:	07-23-03
Preservative:	Cool	Date Analyzed:	07-25-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	99%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Halliburton.

Analyst



### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

011	1.1 - Hills contains	Duning the	00400 004
Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Extracted:	07-23-03
Preservative:	Cool	Date Analyzed:	07-25-03
Condition:	Cool and Intact	Analysis Requested:	TCLP

		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

OA/OC Assentance Criteria	Parameter	Percent Recovery
QA/QC Acceptance Criteria	raiaillelei	reicent Recovery

### 2-fluorobiphenyl

99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Halliburton.

Analyst C. Oyl

Alistene of Walters
Review



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Regulatory

Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Analyzed:	07-25-03
Preservative:	Cool	Date.Extracted:	0.7-23-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Det.

Concentration (mg/L)	Limit (mg/L)	Level (mg/L)
0.008	0.001	5.0
0.964	0.001	100
0.002	0.001	1.0
0.001	0.001	5.0
0.001	0.001	5.0
ND	0.001	0.2
0.003	0.001	1.0
ND	0.001	5.0
	(mg/L)  0.008  0.964  0.002  0.001  0.001  ND  0.003	(mg/L) (mg/L)  0.008

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Halliburton.

Analyst

Mistine of Walters Review



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client: Sample ID:	QA/QC Laboratory Blank	Project #: Date Reported:	N/A 07-25-03
Laboratory Number:	07-25-TCV	Date Sampled: Date Received:	N/A
Sample Matrix:	Water		N/A
Preservative:	N/A	Date Analyzed: Analysis Requested:	07-25-03
Condition:	N/A		TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Cylen

Mistane m Walters Review



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-25-03
Laboratory Number:	07-23-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-25-03
Condition:	N/A	Date-Extracted:	07-23-03
		Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	99%
	1,4-difluorobenzene	98%
	4-bromochlorobenzene	98%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Alexa C. Cylenca

Mistine of Watles
Review



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-25-03
Condition:	N/A	Date Extracted:	07-23-03

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/ <b>L</b> )	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0182	0.0181	0.0001	0.5%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0073	0.0073	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND.	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 26147.

Analyst

Musline ry Wol



### **EPA METHODS 8010/8020** AROMATIC / HALOGENATED **VOLATILE ORGANICS QUALITY ASSURANCE REPORT**

Client:

QA/QC

Project #:

N/A

Sample ID:

Matrix Spike

TCLP Extract

Date Reported:

07-25-03

Laboratory Number:

26147

Date Sampled:

N/A

Date Received:

N/A

Sample Matrix: Analysis Requested:

**TCLP** 

Date Analyzed:

07-25-03.

Condition:

N/A

Date Extracted:

07-23-03

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99.0%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	98.8%	43-143
2-Butanone (MEK)	0.0182	0.050	0.0680	0.0001	99.7%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100.0%	49-133
Carbon Tetrachloride	ND	0.050	0.0495	0.0001	99.0%	43-143
Benzene	0.0073	0.050	0.0571	0.0001	99.7%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98.0%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99.0%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99.0%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99.0%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99.0%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 26147.



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

**QA/QC** Project #: Client: N/A Sample ID: Matrix Spike Date Reported: 07-25-03 26147 Date Sampled: Laboratory Number: N/A **TCLP Extract** Date Received: Sample Matrix: N/A TELP Date Analyzed: Analysis Requested: 07-25-03 Date Extracted: Condition: N/A 07-23-03

			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec. Accept.
	Result	Added	ed Result	Limit	Percent	
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.05 <b>0</b>	0.0495	0.0001	99.0%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	98.8%	43-143
2-Butanone (MEK)	0.0182	0.050	0.0680	0.0001	99.7%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100.0%	49-133
Carbon Tetrachloride	ND	0.050	0.0495	0.0001	99.0%	43-143
Benzene	0.0073	0.050	0.0571	0.0001	99.7%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98.0%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99.0%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99.0%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99.0%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99.0%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 26147.

Allen T. Cymn

Mistane M Watters
Review



### EPA METHOD 8040 PHENOLS

### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-25-03
Laboratory Number:	07-25-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-25-03
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/ <b>L</b> )
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
•	2,4,6-tribromophenol	99 %

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Q.

Review Masters



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-25-03
Laboratory Number:	07-23-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-23-03
Condition:	Cool & Intact	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol 2,4,6-Tribromophenol	99% 99%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst

Review Matters



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample-Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-23-03
Condition:	Cool & Intact	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC-Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Office

Review Westers



### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-25-03
Laboratory Number:	05-25-TBN	Date Sampled:	N/A
-Sample Matrix:	Hexane	Date Received:	
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	<b>3.0</b>
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

101%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst . Ly

Review Musters



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-25-03
Laboratory Number:	07-23 <b>-</b> TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date-Extracted:	07-23-03
Condition:	Cool and Intact	Date Analyzed:	07-25-03
		Analysis Requested:	TC! P

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

### 2-fluorobiphenyl

96%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

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# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	07-23-03
Condition:	N/A	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Duridino	ND .	ND	0.0%	0.020
Pyridine Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

### 8090 Compounds

30%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Cylin

Mustine milaters
Review



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	N/A	Project #:	N/A
Sample ID:	07-25-TCM QA/QC	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	07-25-03
Condition:	N/A	Date Extracted:	

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%
Barium	ND	ND	0.001	0.964	0.961	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Chromium	ND	ИD	0.001	0.001	0.001	0.0%	0% - 30%
Lead	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sampl	e Spiked Sample	The second secon	Acceptance Range
Arsenic	0.500	0.008	0.507	99.8%	80% - 120%
Barium	0.500	0.964	1.46	99.7%	80% - 120% 80% - 120%
Çadmium	0.500	0.002	0.502	100.0%	80% - 120%
Chromium	0.500	0.001	0.500	99.8%	80% - 120%
Lead	0.500	0.001	0.500	99.8%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.003	0.502	99.8%	80% - 120 <b>%</b>
Silver	0.500	ND	0.499	99.8%	80% - 120%
Selenium	0.500	0.003	0.502	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

 ${\it Methods~6010B~Analysis~of~Metals~by~Inductively~Coupled~Plasma-Atomic~Emission,}$ 

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 26147.

Analyst

/ Milline M Walters
Review

# CHAIN OF CUSTODY RECORD

ANALYSIS / PARAMETERS	Remarks						Date Time 7-2 5:03 13:00		Sample Receipt	+++
ANALYSIS / F	o. of siners	- 1					Received by: (Signature)	Received by: (Signature)	ECHINC	lighway 64 v Mexico 87401 2-0615
Project Location	Client No.		- 26147 50:/				Date Time Rie 7.人で3 /3,'00 Re	ë.	ENVIROTECHING	5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615
Client / Project Name ける//, ちょよる	Sampler: Guoyw- Killer	Sample No./ Sample Sample Identification Date Time	Wash BAY 510dge 7-230, 11.55				Relinquished by: (Signature)  **Coryonal Xillinguished by: (Signature)	Relinquished by: (Signature)		

### 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 ACCEP	T SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator: Ace Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Cattle Guard
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "M" Sec 35, T32N, R9W, San Juan County	Project #03133-001
<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> <li>All transporters must certify the wastes delivered are only those consigned for transporters</li> </ul>	ecessary chemical analysis to PROVE the ssified hazardous by listing or testing will be
BRIEF DESCRIPTION OF MATERIAL:  Soil contaminated by Poly Plus liquid. Leaking container of Poly Plus was container is of unknown origin.  CWS and MSDS attached. Ace Services under contract to BLM San Juan Road Committee	FEB 2004 PECEIVED OIL COMS. DIV. DIST. 3
SIGNATURE Management Facility Authorized Agent  TITLE: Landfarm Management Facility Authorized Agent  TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	ager DATE: January 24, 2004

(This space for State Use) APPROVED BY APPROVED BY: /

A U 04: P:V4-M:FD/(ROTESH

;5005021495



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

2. Destination Name:

BILL RICHARDSON COVERED Joanna Prukop Cabinet Secretary

Lori Wrotenhery Director Oil Conservation Division

### CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name;
1	Envirotech Inc. Soil Remediation Facility
Ace Services	Landfarm #2
PD BOX 551 AZTEC NIMEX 87410  3. Originating Site (name):  Sec 33 R 9W 732N	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Sec 33 R 9W T32N	UNITM
attach list of originating sites as appropriate	·
4. Source and Description of Waste	
FOUND ON ROAD UNKO	own to me Band Damaged Ly April 2 BARRELLS DE SOIL
CAN SHAID POLY Plus Contras	THE HARME & BARRELLS OF SOIL
1, MIGG WAYBOURY	representative for :
Print Name	
SAN JUAN ROADS Committee Conservation and Recovery Act (RCRA) and Environmental Protection	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 NON-EXEMP	T oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or non-exempt non -haz	ardous waste defined above.
	eck appropriate items): er (description
RCRA Hazardous Waste Analysis Chain of Custody	
This waste is in compliance with Regulated Levels of Naturally Occ. NMAC 3.1 subpart 1403.C and D.	urring Radioactive Material (NORM) pursuant to 20
Name (Original Signature): Mal W	
Thle: Owner	
Phone Number: 505-334-7274	
Date: 1-24-03	
Oil Conservation Division * 1000 Rio B	

10094 - POLY-PLUS (LIQUID)

Stuc. sward

## MATERIAL SAFETY DATA SHEET POLY-PLUS (LIQUID)

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME:

POLY-PLUS (LIQUID)

CHEMICAL CLASS:

Anionic polyacrylamide

APPLICATIONS:

Oil well drilling fluid additive. Shale control agent

EMERGENCY TELEPHONE:

281-561-1600

SUPPLIER:

Supplied by a Business Unit of

MILLC.

P.O. Box 42842, Houston, Texas 77242-2842

See cover sheet for local supplier.

TELEPHONE:

281-561-1509

FAX:

281-561-7240

CONTACT PERSON:

Sam Hoskin - Manager, Occupational Health

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME:

CAS No.:

CONTENTS:

TPQ:

Petroleum distillates, hydrotreated light

Anionic polyacrylamide

6474**2-47-**8

20-40 % 60-80 % EPA RQ:

11"

### 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

CAUTION! MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. Avoid contact with ayes, skin and clothing. Avoid breathing sirborne product. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

This product is a/an white liquid. Dike and contain spills. Keep out of sewers and waterways, Slippory when wet.

### ACUTE EFFECTS:

INHALATION:

May be irritating to the respiratory tract if inhaled.

INGESTION:

May cause gastric distress, natisea and vomiting if ingested.

SKIN:

May be irritating to the skin.

EYES:

May be irritating to the eyes.

CHRONIC EFFECTS: CARCINOGENICITY:

IARC: Not listed, OSHA: Not regulated, NTP: Not listed.

ROUTE OF ENTRY:

Inhalation. Skin und/or eye contact.

10094 - POLY-PLUS (LIQUID)

### TARGET ORGANS:

Respiratory system, lungs. Skin. Eyes.

### 4. FIRST AID MEASURES

GENERAL:

Persons seeking medical attention should carry a copy of this MSDS with them.

INHALATION:

Move the exposed person to fresh air at once, Perform artificial respiration if breathing has stopped. Get medical attention,

INGESTION:

Drink a couple of glasses water or milk. Do not give victim anything to drink of he is unconscious. Get medical attention:

SKIN:

Wash skin thoroughly with soap and water. Remove contiminated clothing. Out medical attention if any discomfort

continues

EYES:

Promptly wash eyes with lots of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical

attention if any discomfort continues.

### 5. FIRE FIGHTING MEASURES

FLASH POINT ("F):

>201

METHOD: PM Closed cup.

AUTO IGNITION TEMP. (°F): FLAMMABILITY LIMIT - LOWER(%): N/D

FLAMMABILITY LIMIT - LOWER(%): FLAMMABILITY LIMIT - UPPER(%):

N/D

### EXTINGUISHING MEDIA:

Carbon dioxide (CO2). Dry chemicals. Foam, Water spray, fog or mist.

### SPECIAL FIRE FIGHTING PROCEDURES:

Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (including fire fighting helmet, coat, parts, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

### unusual fire & explosion Hazards;

No unusual fire or explosion hazards noted.

### HAZARDOUS COMBUSTION PRODUCTS:

Irritating gases/vapors/fames. Oxides of: Carbon, Nitrous gases (NOx), and Hydrogen chloride (HCl).

### 8. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS:

Wear proper personal protective equipment (see MSDS Section 8).

### SPILL CLEAN-UP PROCEDURES:

Absorb in vermiculite, dry sand or earth and place into containers. Rinse area with water. Dike far shead of larger splits for later disposal. Do not contaminate drainage or waterways.

### 7. HANDLING AND STORAGE

### HANDLING PRECAUTIONS:

Ventilate well, avoid breathing vapors. Use approved respirator if air contumination is show accepted level. Wear full protective clothing for prolonged exposure and/or high concentrations. Eye wash and smorgency shower must be available at the work place, Wash hands often and change clothing when needed.

DUWELL

10094 - POLY-PLUS (LIQUID)

STORAGE PRECAUTIONS:

Since at moderate temperatures in dry, well ventilated area. Keep in original container.

### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**OSHA PEL:** 

**ACGIH TLV:** 

OTHER:

INGREDIENT NAME: Petroleum distillutes, hydrotreated light CAS No.: 64742-47-8 TWA: STEL: 5 #

TWA: STEL: 10 \*

TWA: 2000 \*\*

STEL: UNITS: mg/m3 No atd.

INGREDIENT COMMENTS:

Aniunic polyucrylamide

\* Exposure limits are for Oil mist, mineral. \*\* OSHA PEL, for Petroleum Distillates, naphtha.

### PROTECTIVE EQUIPMENT:









ENGINEERING CONTROLS:

VENTILATION:

Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to reduce air contamination and

Supply natural or mechanical ventilation adequate to exhaust airborne product and keep exposures below the applicable

keen worker exposure below the applicable limits.

If expensed to particulates/aerosols. RESPIRATORS:

Uno at least a NIOSH-approved N95 half-mark disposable or reascable particulate respirator. In work environments containing oil mist/acrosol use at least a NIOSH-approved P95 half-mask disposable or reaseable particulate respirator.

If exposed to organic vapors:

Use a NIOSH/MSHA-approved organic vapor respirator.

PROTECTIVE GLOVES:

Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: impermemble

material. Buch as, Neoprene, nitrile, polysthylene or PVC.

EYE PROTECTION:

Wear chemical safety goggies where eye exposure is reasonably probable.

PROTECTIVE CLOTHING:

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES:

Wash promptly with soap and water if skin becomes contaminated. Change work clothing daily if there is any possibility of contamination.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE:

Liquid. White.

COLOR:

ODOR:

Hydrougham. Slightly soluble in water.

5 212

SOLUBILITY DESCRIPTION: SOLUBILITY VALUE (p/100g H2O 88°F):

32

PRESSURE: 760mmHg

BOILING POINT (°F, interval): MELT./FREEZ. POINT (\*F, Interval):

1.00- - 1.05

TEMPERATURE (°F): 68

DENSITY/SPECIFIC GRAVITY (g/ml): VAPOR DENSITY (air#1): VAPOR PRESSURE:

N/D >0.13

TEMPERATURE (°F): 68

EVAPORATION RATE: PH-VALUE, DILUTED SOLUTION: NID 8.7

REFERENCE:

CONCENTRATION (%,M): 1%

1009	4 - POLY-PLUS (LIQUID)
10.	STABILITY AND REACTIVITY
BTA	BILITY: Nonnally stable.
CON	HDITIONS TO AVOID:  Avoid heat
HA2	ARDOUS POLYMERIZATION: Will not polymerize.
POL	YMERIZATION DESCRIPTION: Not relevant.
MAT	ERIALS TO AVOID: Strong oxidizing agents.
HAZ	ARDOUS DECOMPOSITION PRODUCTS:  No specific hazardous decomposition products noted.
11.	TOXICOLOGICAL INFORMATION
TOX	ICOLOGICAL INFORMATION: No toxicological data is available for this product.
12.	ECOLOGICAL INFORMATION
ACL	TE AQUATIC TOXICITY:
,,,,,	This product passes the mysid shrimp toxicity test required by the U.S. Environmental Protection Agency (EPA) Region VI (Culf of Mexico) NPDES Permit, which regulates offshore discharge of drilling fluids, when tested in a standard drilling fluid. Contact M-I's Environmental Affairs Department for more information.
	This product is approved for use under the U.S. Environmental Protection Agency (EPA) Region IX (California) General NPDES Permit which regulates offshore discharges of drilling fluids. Contact M-I's Environmental Affairs Department for more information.
13.	DISPOSAL CONSIDERATIONS
WA	BTE MANAGEMENT:
	This product does not meet the oritoris of a hazardoux waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardoux waste. This is because product uses, transformations, mixtures, processes, etc, may render the resulting materials hazardous.  Empty containers retain residues. All labeled precautions must be observed.
ופום	POSAL METHODS:
	Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that containers are empty by RCRA criteria prior to disposal in a permitted industrial landfill.
14.	TRANSPORT INFORMATION

10094 - POLY-PLUS (LIQUID)

GENERAL:

RQ ~ N/A

U.S. DOT:

U.S. DOT CLASS:

Not regulated

CANADIAN TRANSPORT:

TDGR CLASS:

Not regulated.

SEA TRANSPORT:

IMDG CLASS:

Not regulated.

AIR TRANSPORT

ICAO CLASS:

Not regulated.

### 15, REGULATORY INFORMATION

REGULATORY STATUS OF INGREDIENTS:

NAME:

Petroleum distillates, hydrotreated light

Anionic polyacrylamide

CAB No:

TECA: CERCLA

CERCLA: SARA 302;

SARA 313:

DBL(CAN):

04742-47-8

Yes No

No No No No Уок Уск

US FEDERAL REGULATIONS: WASTE CLASSIFICATION:

REGULATORY STATUS:

Not a hazardous waste by U.S. RCRA criteria. See Section 13.

This Product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented):

be an inditiance - selection regulations represented):

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization

Act of 1986 and 40 CFR Part 372.

SARA 311 Categories:

1: Immediate (Acute) Health Effects.

The components of this product are listed on or are exempt from the following international

chemical registries:

TSCA (U.S.)

PROPOSITION 65: This product does not contain chemicals considered by the State of Culiforniu's Sufe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or

represductive toxicity, and for which warnings are now required.

STATE REGULATIONS: STATE REGULATORY STATUS:

This product or its components, if a mixture, is subject to following regulations (Not meant to

be all inclusive - selected regulations represented):.

None.

CANADIAN REGULATIONS: REGULATORY STATUS:

This Material Safety Data Sheet has been prepared in compilance with the Controlled Product

Regulations.

Canadian WHMIS Classification: Not a Controlled Product.

### 16. OTHER INFORMATION

NPCA HMI8 HAZARD INDEX:

FLAMMABILITY: REACTIVITY: 1 Slight Hazard

1 Slight Huzurd

1 Slight Huzard

DUWELL

10094 - PULY-PLUS (LIQUID)

J - Splash Goggles, Gloves, Symhetic Apron, Oust and Vapor Respirator. NPCA HMIS PERS, PROTECT. INDEX:

N/A - Not applicable N/D = Not determined

PREPARED BY:

USER NOTES:

Sam Hoskin

REVISION No./Repl. Mads of:

2/June 3, 1998

MODS STATUS:

Approved.

DATE:

June 27, 2001

DISCLAIMER:

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources mSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We cannot make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's risk. We have beyond our direct supervision. We cannot make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's which this information and made no effort to center or connect deleterious aspects of this product no comply with the requirements of all applicable lows regarding use and disposal of this product. Additional information will be each user of this product to comply with the requirements of all applicable lows regarding use and disposal of this product. Additional information will be each user of this product 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 bearing its reads or incurred hereunder. herein is made or incurred hereunder.

District I 4 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 to Appropriate District Office

Form C-138

### REOUEST FOR APPROVAL TO ACCEPT SOLID WASTE

RCRA Exempt:  ☐ Non-Exempt:  ☐	4. Generator: Universal Compression
Verbal Approval Received: Yes ☐ No ⊠	5. Originating Site: Rosa 238 Unit #800914
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Universal
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "J" Sec 3, T31N, R6W, Rio Arriba County	Project #98059-032
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by ne material is not-hazardous and the Generator's certification of origin. No waste clarapproved</li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transp	ort.
BRIEF DESCRIPTION OF MATERIAL:	
New lube oil contaminated soil generated when a line broke on the compre CWS & MSDS attached  Estimated Volume 1bbl cy Known Volume (to be entered by the operator at the end of the compression of the com	FEB 2004 80 ONST. SON.
Estimated Volume 1561 cy Known Volume (to be entered by the operator at the end of	t the naur)cy
SIGNATURE Janduck Authorized Agent  TITLE: Landfarm Mana Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	nger DATE: January 1 <b>9</b> , 2004
	0
(This space for State Use)  APPROVED BY: Denry Jan TITLE: Freivo /	Eugh DATE: 2/04/04

TITLE: Zho, vonimulal Colyis



### 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**

	Generator Name and Address	2. Destination Name:
	Universal Compression	Envirotech Inc. Soil Remediation Facility
	3440 Morningstar Drive	Landfarm #2
	Farmington, New Mexico 87401	Hilltop, New Mexico
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
•	Rosa 238 Unit #800914	"J" Sec 3, T31N, R6W, Rio Arriba County
	attach list of originating sites as appropriate	
	4. Source and Description of Waste	
	Oil line on compressor broke spilling new lub	oe oil onto the ground.
Ι,	BRUCE BRYAN Print Name	representative for :
	Universal Compression	do hereby certify that, according to the Resource
	rvation and Recovery Act (RCRA) and Environmental Proped waste is: (Check appropriate classification)	rotection Agency's July,1988, regulatory determination, the above
E		N-EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification
and tha	at nothing has been added to the exempt or non-exempt n	nonhazardous waste defined above.
For NC	ON-EXEMPT waste the following documentation is atta  X MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ched (check appropriate items):Other (description
	raste is in compliance with Regulated Levels of Natura C 3.1 subpart 1403.C and D.	ally Occurring Radioactive Material (NORM) pursuant to 20
Name	(Original Signature): Suu Buyan	<u> </u>
Title:_	Field Supervisor	·
Phone	Number: 505-215-3634	<del></del>
Date:_	1-19-04	·

### 602466-00 MOBIL PEGASUS 805 MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME: MOBIL PEGASUS 805 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: PET. HYDROCARBONS AND ADDITIVES GLOBALLY REPORTABLE MSDS INGREDIENTS: None. OTHER INGREDIENTS: Approx. Wt% Substance Name \_\_\_\_\_ 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: Light 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): > 245(473) (ASTM D-92). Flammable Limits (approx.% vol.in air) - LEL: 0.9%, 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. 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

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### 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: Light Amber ODOR: Marketable

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 288(550)

MELTING POINT C(F): NA

FLASH POINT C(F): > 245(473) (ASTM D-92)

FLAMMABILITY (solids): NE AUTO FLAMMABILITY C(F): NA EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE RELATIVE DENSITY, 15/4 C: 0.89

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 130.0

VISCOSITY AT 100 C, cSt: 13.5

POUR POINT C(F): < -12(10)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

### 10. STABILITY AND REACTIVITY

\_\_\_\_\_\_

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

 ${\tt HAZARDOUS}$  DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

### 44 TOVICOLOGICAL DATA

### 11. TOXICOLOGICAL DATA

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### ---ACUTE TOXICOLOGY---

- ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater
   than 5 mg/l). ---Based on testing of similar products and/or the
   components.
- EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
- SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.
- OTHER ACUTE TOXICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.
  - ---SUBCHRONIC TOXICOLOGY (SUMMARY) ---
- No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).
  - --- REPRODUCTIVE TOXICOLOGY (SUMMARY) ---

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

---CHRONIC TOXICOLOGY (SUMMARY)---

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

---SENSITIZATION (SUMMARY)---

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

### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

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

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.

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

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

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

SARA (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) (0.03%) 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 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

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

\_\_\_\_\_

### 16. OTHER INFORMATION

\_\_\_\_\_

USE: ENGINE LUBRICANT

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

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

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

treatment within the first few hours may significantly reduce the ultimate extent of injury.

INDUSTRIAL LABEL

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

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. ExxonMobil 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 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

APPROVED BY:

State of New Mexico
Energy Minerals and Natural Resource

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

ubmit Original Plus 1 Copy to Appropriate District Office

Form C-138 Wised March 17, 1999

DATE: 1/20/04

JAN 15 2004

REQUEST FOR APPROVAL TO ACCES	TSOCIED WAS TOO
1. RCRA Exempt: ☐ Non-Exempt: ☐ Vevba	4. Senteraler: NM \$75051ces
Verbal Approval Received: Yes No 🖂 1/12/04	5. Originating Site: SPC Plant Blender Tank in Yard
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 3250 Southside River Road, Farmington	Project #95026-011
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste claapproved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transporters	port.
BRIEF DESCRIPTION OF MATERIAL:  New diesel and gel slurry being removed from tank in order to change to a CWS and MSDS attached.  Estimated Volume <a href="mailto:2300gal.cy">2300gal.cy</a> Known Volume (to be entered by the operator at the entered	AN 2004  CONS. DIV.  CONS. DIV.
SIGNATURE Management Excility Authorized Agent  TITLE: Landfarm Man Waste Management Excility Authorized Agent  TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	ager DATE: January 12, 2004
(This space for State Use)  APPROVED BY: Demy 700 TITLE: Enviro);	Engr DATE: 1/12/0/



# ال معروب المحافظة ال

### **BILL RICHARDSON**

Governor Joanna Prukop Cabinet Secretary

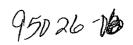


Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

	1. Generator Name and Address	2. Destination Name:
	BJ Services	Envirotech Inc. Soil Remediation Facility
	3250 Southside River Road	Landfarm #2
	Farmington, New Mexico 87401	Hilltop, New Mexico
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	SPC Plant Blender Tank in Yard	3250 Southside River Road, Farmington, NM
	attach list of originating sites as appropriate	
	4. Source and Description of Waste	
	~200 gallons new diesel and gel slurry being re	emoved from tank in order to change to a new product.
a	Les Baugh	representative for :
	Print Name	
_	BJ Services	do hereby certify that, according to the Resource
Conser	rvation and Recovery Act (RCRA) and Environmental Proped waste is: (Check appropriate classification)	stection Agency's July, 1988, regulatory determination, the above
2030110	ved waste is. (Check appropriate classification)	
<b>E</b> .		EXEMPT oilfield waste which is non-hazardous by characteristic sor by product identification
7		· •
ing tha	at nothing has been added to the exempt or non-exempt no	n -hazardous waste defined above.
or NC	ON-EXEMPT waste the following documentation is attack	hed (check appropriate items):
0	X MSDS information	Other (description
	RCRA Hazardous Waste Analysis	(accordance)
	Chain of Custody	
Chis w: VMAC	aste is in compliance with Regulated Levels of Natural 23.1 subpart 1403.C and D.	ly Occurring Radioactive Material (NORM) pursuant to 20
		1942-19
lame (	(Original Signature): JM Mauf	<u> </u>
Title:_	Faulties Suservisor	
hone:	Number: 805-327-6222	
Date:	19/04	

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





#### **BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET**

Region.

USA

#### **SECTION I - GENERAL INFORMATION**

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE:

SUPPLIER:

ADDRESS:

**EMERGENCY TELEPHONE NUMBER** 

PREPARED BY:

DATE PREPARED:

GW-4

424203, 488011

Guar gum

Gellant - water

BJ Services Company

5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(703)527-3887 Alaska and International

BJ Services Environmental Group

(281)351-8131

September 18, 2000

Supersedes: November 17, 1997

HMIS HAZARD INDEX

HEALTH:

1

FLAMMABILITY:

1 0

REACTIVITY: PERSONAL PROTECTION: e

#### **SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Guar gum	9000-30-0	>99	Irritant

#### SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

UPPER EXPLOSION LIMIT(% BY VOL): LOWER EXPLOSION LIMIT(% BY VOL):

**AUTO-IGNITION TEMPERATURE:** 

EXTINGUISHING MEDIA:

>200°F (TOC)

N.E.

N.E.

N.E.

Use carbon dioxide or dry chemical for small fires;

aqueous foam or water for large fires.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus and complete personal protective equipment when entering confined

areas where potential for exposure to vapors of products

of combustion exists.

**EXPLOSION DATA:** 

Like all carbohydrate and most dry chemicals, a potential

dust explosion hazard exists if the dust concentration in air is too high. Good housekeeping procedures are

required to reduce this potential hazard.

HAZARDOUS COMBUSTION PRODUCTS:

Fumes produced when heated to decomposition may

include: carbon monoxide, carbon dioxide.

#### SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Eye contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT:

No specific information available. Contains materials that are

essentially nonirritating, but contact may cause slight transient

irritation.

SKIN ABSORPTION:

No specific information available. Contains materials that may be

practically nontoxic.

EYE CONTACT:

No specific information available. Contains materials that may cause

eye injury which may persist for several days.

INHALATION:

No specific information available. Dust may produce a respiratory

allergenic response and/or irritation in some individuals.

INGESTION:

Contains materials that may be practically nontoxic. Ingestion of dry powder may result in the material swelling in the throat possibly causing blockage of the throat and choking. Ingestion is not an

expected route of entry.

CHRONIC OVEREXPOSURE EFFECTS: Based on a medical study of exposed workers, some individuals may develop a respiratory allergenic response to guar dust. Persons with a history of respiratory allergies may have those conditions aggravated by exposure to guar dust.

#### **EXPOSURE LIMITS:**

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Guar gum	10 mg/m3 (total dust)	10 mg/m3 (total dust)

CARCINOGENICITY, REPRODUCTIVE EFFECTS: Not listed as carcinogen - IARC, NTP, or OSHA

TERATOGENICITY, MUTAGENICITY: No effects listed.

**TOXICITY STUDIES:** 

LD(50)

N.E.

LC(50)

N.E.

#### **SECTION V - FIRST AID PROCEDURES**

FOR EYES: Flush with plenty of water for at least 15 minutes and seek medical attention if

irritation persists.

FOR SKIN: Remove contaminated clothing and wash contact area with water and mild soap.

if available. If irritation develops or persists, contact a physician.

FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. Keep

person warm, quiet and get medical attention.

FOR INGESTION: Fluids should be taken to prevent esophageal obstruction if dry material is

swallowed. Get medical attention.

#### SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR: Off white powder, bean-like odor

SPECIFIC GRAVITY: 1.3
VAPOR PRESSURE: N.A.

VAPOR DENSITY (air=1): N.A. EVAPORATION RATE: N.A. BOILING POINT: N.A. FREEZING POINT: N.A.

SOLUBILITY IN H20: Forms gel

pH: 6-8 at 0.5 wt/wt%

#### SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: Stable

INCOMPATIBLE MATERIALS: Strong oxidizing agents HAZARDOUS POLYMERIZATION: Does not polymerize HAZARDOUS DECOMPOSITION PRODUCTS: See combustion products

#### SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION: The use of mechanical ventilation is recommended whenever

this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is

natural air movement.

RESPIRATORY PROTECTION: Dust mask - Where ventilation is inadequate, wear a NIOSH

approved dust or air-line respirator.

PROTECTIVE GLOVES: Rubber or neoprene

EYE PROTECTION: Goggles

OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment should be easily

accessible

#### **SECTION IX - HANDLING PRECAUTIONS**

LEAK AND SPILL PROCEDURES: For wet material, dike spill and absorb with inert material and

collect for disposal. Caution: Wet material is slippery For dry powder, sweep or scoop-up and collect for disposal. Avoid

creating dust clouds and breathing dust.

WASTE DISPOSAL: If this product becomes a waste it does not meet the

requirements of a RCRA hazardous waste. Always dispose of

according to local/state/federal regulations.

HANDLING & SPECIAL EQUIPMENT: Avoid breathing dust. Surfaces dusted with this product can

become slippery when wet.

STORAGE REQUIREMENTS: Store in a dry place. Keep container closed to avoid moisture

pickup. Avoid creating dust clouds and breathing dust when

handling.

#### SECTION X - REGULATORY INFORMATION

#### SHIPPING INFORMATION

PROPER SHIPPING NAME:

Not DOT Regulated

HAZARD CLASS:

N.A. N.A.

UN/NA NUMBER: PACKING GROUP W/ "PG":

N.A.

SUBSIDIARY RISK:

N.A.

REPORTABLE QUANTITY (RQ):

N.A.

**EMERGENCY RESPONSE GUIDE #:** 

-----N.A.

#### **ENVIRONMENTAL INFORMATION**

#### SARA TITLE III

**SECTION 302/304** 

This product does not contain ingredients listed as an Extremely

Hazardous Substance

**SECTION 311/312** 

SECTION 313

Immediate, Delayed

This product does not contain ingredients (at a level of 1% or

greater) on the List of Toxic Chemicals.

#### OTHER REGULATORY INFORMATION

TSCA INVENTORY:

**CALIFORNIA PROP 65:** 

All of the components in this appear on the TSCA inventory.

This product is not subject to California Proposition 65

notification.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

Revision: 1 Status: Approved & Released MSDS

#### **Revision History:**

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	1	Telephone number	09/18/00

N.E. = Not Established N.A. = Not Applicable

MSDS for GW-4...Page 5



#### BJ SERVICES COMPANY **MATERIAL SAFETY DATA SHEET**

Region:

USA

#### **SECTION I - GENERAL INFORMATION**

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE:

SUPPLIER:

ADDRESS:

Diesel #2

182848, 100365

Diesel Oil Solvent

BJ Services Company

5500 Northwest Central Dr

Houston TX 77092

**EMERGENCY TELEPHONE NUMBER** 

(800)424-9300 for CHEMTREC

(202)483-7616 Alaska and

International

PREPARED BY:

BJ Services Environmental Group

(281)351-8131

DATE PREPARED:

August 6, 1998

August 7, 2000 Supersedes:

HMIS HAZARD INDEX

**HEALTH:** 

FLAMMABILITY:

2

REACTIVITY:

PERSONAL PROTECTION: h

#### **SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Diesel Fuel	68476-34-6	100	Combustible

#### SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

130°F (TCC)

UPPER EXPLOSION LIMIT(% BY VOL):

6.0

LOWER EXPLOSION LIMIT(% BY VOL):

0.4 494°F

**AUTO-IGNITION TEMPERATURE:** EXTINGUISHING MEDIA:

Water spray, dry chemical, CO2.

foam

SPECIAL FIRE FIGHTING PROCEDURES:

Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Do not enter enclosed or confined space without proper protective equipment including

respiratory protection.

EXPLOSION DATA: Vapor forms explosive mixture with

air.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide,

and a variety of hydrocarbons

#### SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Skin contact, inhalation

**ACUTE OVEREXPOSURE EFFECTS:** 

SKIN CONTACT: Prolonged or repeated contact with skin may cause

irritation or contact dermatitis.

SKIN ABSORPTION:

N: Not absorbed by skin.

EYE CONTACT:

Eye contact may cause irritation and redness.

INHALATION: Prolonged exposure may cause signs and symptoms of Central Nervous System depression

symptoms of Central Nervous System depression such as headache, dizziness, loss of appetite, weakness, and loss of coordination. May also lead

to chemical pneumonia.

INGESTION:

Will cause nausea, vomiting, diarrhea, and

restlessness.

CHRONIC OVEREXPOSURE EFFECTS: Eye irritation, skin irritation leading to

dermatitis, CNS depression and chemical

pneumonia.

**EXPOSURE LIMITS:** 

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Diesel Fuel	N.E.	N.E.

#### CARCINOGENICITY, REPRODUCTIVE EFFECTS:

Petroleum distillate, a component of this product, has been shown to cause skin cancer in laboratory animals.

TERATOGENICITY, MUTAGENICITY:

No effects listed.

TOXICITY STUDIES:

LD(50) 9 ml/kg (oral-rat)

LC(50) N.E.

#### SECTION V - FIRST AID PROCEDURES

FOR EYES: Immediately flush with plenty of water for at least 15

minutes. If irritation persists, contact a physician.

FOR SKIN: Flush skin with water or wash with mild soap and water if

available. If irritation persists, contact a physician.

FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial

N.E. = Not Established

N.A. = Not Applicable

respiration. Keep person warm, quiet and get medical

attention.

FOR INGESTION: DO NOT inc

DO NOT induce vomiting. Aspiration into the lungs will cause

severe chemical pneumonia. Seek medical attention

immediately!

#### SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR:

Clear or straw-colored or dyed blue/green/red

-liquid with aromatic odor.

SPECIFIC GRAVITY: VAPOR PRESSURE:

0.84-0.88 @ 60°F 1 mm Hg @ 68°F

VAPOR DENSITY (air=1):

>1 N.E.

EVAPORATION RATE:

350-690°F (177-366°C)

BOILING POINT: EREEZING POINT:

N.E.

SOLUBILITY IN H20:

Insoluble

pH:

N.A.

#### **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY:

Stable

INCOMPATIBLE MATERIALS:

Strong oxidizers

HAZARDOUS POLYMERIZATION:
HAZARDOUS DECOMPOSITION PRODUCTS:

Does not polymerize See Combustion Products

SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION:

The use of mechanical ventilation is recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air

movement.

RESPIRATORY PROTECTION:

As needed. Air purifying, half face piece,

organic vapor cartridge or canister.

PROTECTIVE GLOVES:

Rubber or neoprene

EYE PROTECTION:

Safety glasses or goggles

OTHER PROTECTIVE EQUIPMENT:

Evewash bottles or other rinsing equipment

should be easily accessible.

#### SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES:

Eliminate ignition sources. Dike or contain spill to prevent material from entering waterways. Pump large spills into salvage containers. Soak up residue or small spills with absorbent pads, clay, or dirt and place

in salvage containers.

WASTE DISPOSAL:

If this product becomes a waste it may meet the requirements of a RCRA hazardous waste with the waste code D001. Always dispose of according to all local, state, and federal laws and regulations.

HANDLING & SPECIAL EQUIPMENT: Avoid contact with eyes, skin and clothing.

Avoid breathing vapors. Keep away from heat, sparks and open flames. Ground container when pouring. Keep containers

closed when not in use.

STORAGE REQUIREMENTS: Store outdoors or in a detached area if

possible. Otherwise, store in a well-ventilated area away from heat, sparks

and open flames.

#### SECTION X - REGULATORY INFORMATION

#### SHIPPING INFORMATION

PROPER SHIPPING NAME: Diesel Fuel

HAZARD CLASS: 3

UN/NA NUMBER: NA1993

PACKING GROUP W/ "PG": PGIII

SUBSIDIARY RISK: N.A. REPORTABLE QUANTITY (RQ): N.A.

EMERGENCY RESPONSE GUIDE #: 128

#### **ENVIRONMENTAL INFORMATION**

#### SARA TITLE III

SECTION 302/304 This product does not contain ingredients

listed as an Extremely Hazardous

Substance.

SECTION 311/312 Immediate, Delayed, Fire

SECTION 313 This product does not contain ingredients (at

a level of 1% or greater) on the List of Toxic

Chemicals.

#### OTHER REGULATORY INFORMATION

TSCA INVENTORY: All of the components in this appear on the

TSCA inventory.

CALIFORNIA PROP 65: None of the chemicals on the current

Proposition 65 list are known to be present

in this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

Revision: 2 Status: Approved & Released MSDS

Revision History:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
- 2	HMIS, II, III,IV,VI,IX,X	HMIS, CAS#, Fire & explosion data, LD50, Physical data, Handling precautions, Regulatory information	8-6-98
3	ŀ	Telephone number	08/07/00



#### **BJ SERVICES COMPANY** MATERIAL SAFETY DATA SHEET

Region:

USA

#### **SECTION I - GENERAL INFORMATION**

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

**EMERGENCY TELEPHONE NUMBER** 

PRODUCT USE:

SUPPLIER:

ADDRESS:

PSA-1

488164

Organophilic clay

Component

BJ Services Company 5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(202)483-7616 Alaska and

International

PREPARED BY:

DATE PREPARED:

1998

BJ Services Environmental Group

(281)351-8131

November 9, 2000 Supersedes: February 19.

HMIS HAZARD INDEX

HEALTH:

2

FLAMMABILITY:

0

REACTIVITY:

PERSONAL PROTECTION: f

#### SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Crystalline silica (cristobalite) Crystalline silica (quartz)	14464-46-1	< 1.0	Irritant
	14808-60-7	< 1.0	Irritant

### SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

N.A.

UPPER EXPLOSION LIMIT(% BY VOL):

N.A.

LOWER EXPLOSION LIMIT(% BY VOL):

73.6 g/m3

**AUTO-IGNITION TEMPERATURE:** 

N.E.

EXTINGUISHING MEDIA:

Alcohol foam, carbon dioxide, dry

chemical, or water fog

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should have eye

protection and wear self-contained breathing apparatus. Use water spray

to cool containers exposed to fire. Normal precautions for organic dusts

should be provided. Avoid dust

N.E. = Not Established

**EXPLOSION DATA:** 

N.A. = Not Applicable

MSDS for PSA-1...Page 1

concentrations and ensure all equipment is properly grounded to

prevent static discharges.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon and ammonia

#### **SECTION IV - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY: Inhalation and eye contact

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT:

Not expected to cause irritation.

SKIN ABSORPTION:

Cannot be absorbed through the skin. May produce slight mechanical irritation.

EYE CONTACT: INHALATION:

May cause slight irritation.

INGESTION:

Not expected to produce adverse effects.

CHRONIC OVEREXPOSURE EFFECTS: As with any nuisance dust, long term

exposure to concentrations above recommended exposure guidelines may overload the lung clearance mechanism and cause adverse lung effects and shortness of breath. Long term over exposure to products containing Crystalline Silica may cause silicosis. IARC has classified Crystalline Silica as 2A - Probably carcinogenic to humans.

#### **EXPOSURE LIMITS:**

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Crystalline silica (cristobalite)	0.1 mg/m3	0.1 mg/m3
Crystalline silica (quartz)	10 mg/m3 - Total	10 mg/m3 - Total 5 mg/m3 - Respirable

#### CARCINOGENICITY, REPRODUCTIVE EFFECTS:

Not listed as carcinogenic - OSHA

Listed as a suspected carcinogen - IARC (Group 2A)

Listed as a suspected carcinogen - NTP (Respirable)

#### TERATOGENICITY, MUTAGENICITY:

No effects listed

#### TOXICITY STUDIES:

LD(50)

> 8,000 mg/kg (Rat)

LC(50)

N.E.

#### **SECTION V - FIRST AID PROCEDURES**

FOR EYES:

In case of contact, immediately flush eyes with plenty of

water for at least 15 minutes. Lift upper and lower lids and

rinse well under them. Get medical attention, preferably an

ophthalmologist if irritation occurs.

FOR SKIN: Flush all affected areas with plenty of water for several

minutes. Remove and wash any contaminated clothing and

shoes. Get medical attention if skin irritation occurs.

Remove to fresh air. If breathing has stopped, give artificial FOR INHALATION:

respiration. Keep person warm, quiet and get medical

attention.

Seek medical attention. If person is conscious and medical FOR INGESTION:

help is not readily available, give water and induce vomiting.

#### SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR: Odorless, light cream powder

SPECIFIC-GRAVITY: 1.7\_at\_600°F\_\_

**VAPOR PRESSURE:** N.A. VAPOR DENSITY (air=1): N.A. **EVAPORATION RATE:** N.A. N.A. **BOILING POINT:** FREEZING POINT: N.A. Insoluble SOLUBILITY IN H20:

N.A. pH:

#### **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY:

INCOMPATIBLE MATERIALS:

HAZARDOUS POLYMERIZATION:

HAZARDOUS DECOMPOSITION PRODUCTS:

Stable

None known

Does not polymerize

Thermal decomposition can

produce oxides of carbon and

ammonia.

#### SECTION VIII - SPECIAL/PERSONAL PROTECTION

**VENTILATION:** The use of mechanical ventilation is

> recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air

movement.

NIOSH approved (type) air purifying RESPIRATORY PROTECTION:

respirator where TLV is exceeded.

PROTECTIVE GLOVES: Chemical resistant

EYE PROTECTION: Safety glasses

OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment

should be easily accessible.

#### **SECTION IX - HANDLING PRECAUTIONS**

LEAK AND SPILL PROCEDURES: Sweep up and place in suitable containers

for reuse or disposal.

If this product becomes a waste, it does not WASTE DISPOSAL:

meet the requirements of a RCRA hazardous waste. Always dispose of according to all local/state/ and federal

regulations.

HANDLING & SPECIAL EQUIPMENTAvoid high dust concentrations while

handling through the use of ventilation or other suitable controls. Ensure all equipment is grounded to prevent static

discharge.

STORAGE REQUIREMENTS:

None

#### **SECTION X - REGULATORY INFORMATION**

#### SHIPPING INFORMATION

PROPER SHIPPING NAME:

Not DOT Regulated

HAZARD CLASS:

N.A.

UN/NA NUMBER:

N.A.

PACKING GROUP W/ "PG":

N.A.

SUBSIDIARY RISK:

N.A.

REPORTABLE QUANTITY (RQ):

N.A.

**EMERGENCY RESPONSE GUIDE #:** 

N.A.

#### **ENVIRONMENTAL INFORMATION**

#### SARA TITLE III

**SECTION 302/304** 

This product does not contain ingredients listed as an

Extremely Hazardous Substance.

**SECTION 311/312** 

Immediate, Delayed

SECTION 313

This product does not contain ingredients (at a level

of 1% or greater) on the List of Toxic Chemicals.

#### OTHER REGULATORY INFORMATION

TSCA INVENTORY:

All of the components in this appear on the

TSCA inventory.

**CALIFORNIA PROP 65:** 

None of the chemicals on the current

Proposition 65 list are known to be present in

this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

Revision: 1

Status: Approved & Released MSDS

#### Revision History:

Revision:	Sec/Para Changed	Change Made:	Date
1.	N/A	Initial Issue of Document	Today
2	1	Telephone number	11/9/00



#### **BJ SERVICES COMPANY** MATERIAL SAFETY DATA SHEET

Region:

USA

#### **SECTION I - GENERAL INFORMATION**

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE: SUPPLIER: ADDRESS:

**EMERGENCY TELEPHONE NUMBER** 

PREPARED BY:

DATE PREPARED:

PSA-2L

488165

Alkoxylated alcohols

Component

BJ Services Company 5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(703)527-3887 for International

BJ Services Environmental Group

(281)351-8131 July 9, 2001

Supersedes: November 9, 2000

HMIS HAZARD INDEX

**HEALTH:** 

2

FLAMMABILITY: REACTIVITY:

1 0

PERSONAL PROTECTION: i

#### **SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Poly (oxy-1,2-ethanediyl)	24938-91-8	100	None

#### SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

> 300°F (COC)

UPPER EXPLOSION LIMIT(% BY VOL):

N.A.

LOWER EXPLOSION LIMIT(% BY VOL): **AUTO-IGNITION TEMPERATURE:** 

N.A.

**EXTINGUISHING MEDIA:** 

N.E.

SPECIAL FIRE FIGHTING PROCEDURES:

Alcohol foam, carbon dioxide, dry chemical, water fog Do not enter a fire area without proper protective

equipment, including NIOSH/MSHA approved,

self-contained breathing apparatus. Use water spray to cool containers exposed to fire. Avoid exposure to

vapors.

**EXPLOSION DATA:** 

HAZARDOUS COMBUSTION PRODUCTS:

N.E.

Carbon monoxide, carbon dioxide

#### SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Eye and skin contact

#### **ACUTE OVEREXPOSURE EFFECTS:**

SKIN CONTACT:

May cause skin irritation.

SKIN ABSORPTION:

Not expected to be absorbed through the skin under normal

conditions

EYE CONTACT:

Eye contact may cause irritation and redness.

INHALATION: INGESTION:

Not expected to be harmful by inhalation under normal conditions. Not considered to be a likely route of exposure, however, may be

harmful if swallowed.

CHRONIC OVEREXPOSURE EFFECTS:

No known effects

#### **EXPOSURE LIMITS:**

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Poly (oxy-1,2-ethanediyl)	N.E.	N.E.

#### CARCINOGENICITY, REPRODUCTIVE EFFECTS:

IARC has identified EtO as a "human carcinogen (Group 1); human evidence is limited; animal evidence is sufficient". EtO has been listed as an "anticipated carcinogen" by the NTP.

#### TERATOGENICITY, MUTAGENICITY:

No effects listed

#### TOXICITY STUDIES:

LD(50)

N.E.

LC(50)

N.E.

#### **SECTION V - FIRST AID PROCEDURES**

FOR EYES:

Immediately flush with plenty of water for at least 15 minutes. If irritation

persists, contact a physician.

FOR SKIN:

Flush all affected areas with plenty of water for several minutes. Remove and

wash any contaminated clothing and shoes. Get medical attention if skin

irritation occurs.

FOR INHALATION:

Remove to fresh air. If breathing has stopped, give artificial respiration. Keep

person warm, quiet and get medical attention.

FOR INGESTION:

If swallowed, seek medical attention. Only induce vomiting at the instructions of

medical personnel. Never give anything by mouth to an unconscious person.

#### SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR:

Clear, colorless to amber liquid with mild polyether odor

SPECIFIC GRAVITY:

0.98 at 77°F

VAPOR PRESSURE: VAPOR DENSITY (air=1): N.E. > 1

EVAPORATION RATE:

N.A.

BOILING POINT: FREEZING POINT:

485°F 24°F

SOLUBILITY IN H20:

Insoluble

pH:

6-8 (5% aqueous solution)

#### **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY:

Stable

INCOMPATIBLE MATERIALS:

Oxidizers, temperature extremes

HAZARDOUS POLYMERIZATION:

Does not polymerize

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide

#### SECTION VIII - SPECIAL/PERSONAL PROTECTION

**VENTILATION:** 

The use of mechanical ventilation is recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is

natural air movement.

RESPIRATORY PROTECTION:

As needed use an air purifying, full facepiece respirator with an

organic vapor cartridge.

PROTECTIVE GLOVES:

Chemical resistant

EYE PROTECTION:

Gogales

OTHER PROTECTIVE EQUIPMENT:

Eyewash bottles or other rinsing equipment should be easily

accessible.

#### **SECTION IX - HANDLING PRECAUTIONS**

LEAK AND SPILL PROCEDURES:

Dike or contain spill to prevent material from entering

waterways. Pump large spills into salvage containers. Soak up residue or small spills with absorbent pads, clay, or dirt and

place in salvage containers.

WASTE DISPOSAL:

If this product becomes a waste, it does not meet the

requirements of a RCRA hazardous waste. Always dispose of

according to all local/state/ and federal regulations.

HANDLING & SPECIAL EQUIPMENT:

STORAGE REQUIREMENTS:

Do not get in eyes, on skin or clothing.

Store in a cool, dry, well-ventilated area.

#### **SECTION X - REGULATORY INFORMATION**

#### SHIPPING INFORMATION

PROPER SHIPPING NAME:

Not DOT Regulated

HAZARD CLASS:

N.A.

UN/NA NUMBER: PACKING GROUP W/ "PG":

N.A. N.A.

SUBSIDIARY RISK:

N.A.

REPORTABLE QUANTITY (RQ):

N.A.

EMERGENCY RESPONSE GUIDE #:

N.A.

#### **ENVIRONMENTAL INFORMATION**

#### SARA TITLE III

**SECTION 302/304** 

This product does not contain ingredients listed as an Extremely

Hazardous Substance.

**SECTION 311/312** 

**Immediate** 

SECTION 313

This product does not contain ingredients (at a level of 1% or greater) on

the List of Toxic Chemicals.

#### OTHER REGULATORY INFORMATION

**TSCA INVENTORY:** 

All of the components in this product appear on the TSCA

inventory.

CALIFORNIA PROP 65:

This product contains trace amounts of ethylene oxide (EtO) and

1,4-dioxane, chemicals known to the State of California to cause

cancer and/or birth defects or reproductive harm.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

Revision: 1

Status: Approved & Released MSDS

#### **Revision History:**

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	All	General revision	07/09/01

APPROVED BY

APPROVED BY:

State of New Mexico Energy Minerals and Natural Resources

Form C-138

Revised March 17, 1999 Submit Original Plus 1 Copy to Appropriate District Office

1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 2 % 2004

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

1220 S. St. Francis Dr., Santa GANN 87505 SERVA . CM

REQUEST FOR APPROVAL TO ACCEP	I SOLID WASTE					
1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator: Compressor Systems Inc.					
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: SJ 30-5 #224					
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA					
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico					
7. Location of Material (Street Address or ULSTR) 1425' FSL, 1112' FWL, Sec 17, T30N, R5W, San Juan County	Project #01038-017					
9. <u>Circle One</u> :						
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste claapproved</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:						
Hydraulic oil contaminated soil generated when a line on compressor broke	e spraying 30gallons onto the ground.					
CWS, MSDS, and analytical attached.						
Estimated Volume $\sim 5$ cy Known Volume (to be entered by the operator at the end of	the haul)cy					
SIGNATURE JANGUAR JULIS TITLE: Landfarm Management Facility Authorized Agent						
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	703210					
(This space for State Use)						

TITLE: Environmental Goologist

DATE:

DATE: 1/22



# 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

	erator Name and Address	2. Destination Name:
Com	REESSOR SYSTEMS INC	Envirotech Inc. Soil Remediation Facility
5995	5 U5 HWY 64	Landfarm #2
	MNGTON N.M 87401	Hilltop, New Mexico
3. Origi	inating Site (name):	Location of the Waste (Street address &/or ULSTR):
	5 # 224 ~ 40 4682	SECT 17- R5W - T3ON -1425 F56 + 1112 FWC
	st of originating sites as appropriate	
4. Sou	rce and Description of Waste	SPRANTA GUTT I CANNO BROWN ARREST
	CONTAMINATED ABOUT 5 CC	- SPRAYED ONTO GROUND FROM BROKEN
ZLIVE	E CONTAINTNATUR MOOUT 5 CO	DETE YARAS OF SOFE
, Phace.	Print Name	representative for :
	Print Name	
Comos	essal Systems This	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	s: (Check appropriate classification)	
EXEMPT o		EMPT oilfield waste which is non-hazardous by characteristic sor by product identification
and that nothing l	has been added to the exempt or non-exempt non	-hazardous waste defined above.
	PT waste the following documentation is attached	
	S Information A Hazardous Waste Analysis	Other (description
	n of Custody	
<del></del>	-	
	compliance with Regulated Levels of Naturally art 1403.C and D.	Occurring Radioactive Material (NORM) pursuant to 20
Name (Original S	Signature): Konthe May	_
Γitle: <u>67.ΑΒ</u>	8 SERVACE TECH	_
Phone Number:_	505-632-550/	-
Date: 1/6	104	<del>-</del>
		the state of the s

Oil Conservation Division \* 1000 Rio Brazos Road \* Aztec, New Mexico 87410 Phone: (505) 334-6178 \* Fax (505) 334-6170 \* http://www.emnrd.statc.nm.us



#### TRACE METAL ANALYSIS

Client:	Compressor Systems Inc.	Project #:	01038-001
Sample ID:	30-5 #224	Date Reported:	01-10-04
Laboratory Number:	27505	Date Sampled:	01-06-04
Chain of Custody:	11727	Date Received:	01-09-04
Sample Matrix:	Soil	Date Analyzed:	01-10-04
Preservative:	Cool	Date Digested:	01-09-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.003	0.001	5.0
Barium	0.642	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.005	0.001	5.0
Lead	0.008	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.001	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:

30-5 #224.

Analyst

'*|| UVUWL || Y | LJCG* Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-10-04 QA/AC	Date Reported:	01-10-04
Laboratory Number:	27505	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	01-10-04
Condition:	N/A	Date Digested:	01-09-04

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Barium	ND	ND	0.001	0.642	0.640	0.3%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.005	0.005	0.0%	0% - 30%
Lead	ND	ND	0.001	800.0	0.008	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Silver	ND <sub>.</sub>	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spike	Sample	Spiked	Percent	Acceptance
Conc. (mg/Kg)	Added		Sample	Recovery	Range
Arsenic	0.500	0.003	0.502	99.8%	80% - 120%
Barium	0.500	0.642	1.14	99.8%	80% - 120%
Cadmium	0.500	ND	0.500	100.0%	80% - 120%
Chromium	0.500	0.005	0.504	99.8%	80% - 120%
Lead	0.500	0.008	0.507	99.8%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.001	0.500	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	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 27505.

Analyst

Mistine Mucheller Review

# CHAIN OF CUSTODY RECORD

CHAIN OF CUSTODY RECORD	Project Location ANALYSIS / PARAMETERS	Client No.	Sample Sample Lab Number Sample Z S O O Date Time	70/7					by: (Signature)  Date Time Received by: (Signature)  A. 9.04 N. 45	Received by: (Signature)	by: (Signature)  Received by: (Signature)	FOUR DECEMBER Sample Receipt	5796 U.S. Highway 64  Farmington. New Mexico 87401	
	Client / Project Name	Sampler: Mobered Management (Mobered Mobered M							Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)			

## **Material Safety Data Sheet**

#### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### Chevron Rykon® Oil AW

Product Number(s): CPS229001, CPS229002, CPS229003

Synonyms: CHEVRON Rykon® Oil AW ISO 32, CHEVRON Rykon® Oil AW ISO 46, CHEVRON Rykon® Oil AW

ISO 68

Company Identification

ChevronTexaco Global Lubricants 6001 Bollinger Canyon Rd. San Ramon, CA 94583 United States of America www.chevron-lubricants.com

Post-it® Fax Note 7671	Date 16/04 pages
To Phillip	From
Co/Dept. CS	Co. Farmington Dil
Phone # 432-5501	Phone # 325 9422
Fax # 632-8985	Fax # 326-7275

Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887

Health Emergency

ChevronTexaco Emergency Information Center: Located in the USA. International collect calls accepted. (800)

231-0623 or (510) 231-0623

**Product Information** 

email: lubemsds@chevron.com Product Information: (800) LUBE TEK MSDS Requests: (800) 414-6737

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS						
COMPONENTS	CAS NUMBER	AMOUNT				
Non-hazardous additive blend in refined oil	Mixture	100 %weight				
SECTION 3 HAZARDS IDENTIFICATION						

#### IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye initation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, If left untreated, could result in disfigurement or amputation of the affected part.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

#### **SECTION 4 FIRST AID MEASURES**

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean

before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Note to Physicians: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

#### **SECTION 5 FIRE FIGHTING MEASURES**

Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of Ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

#### FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

#### **FLAMMABLE PROPERTIES:**

Flashpoint: (Cleveland Open Cup) 170 °C (338 °F) (Min)

Autoignition: No Data Available

Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. **PROTECTION OF FIRE FIGHTERS:** 

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products**: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

#### **SECTION 7 HANDLING AND STORAGE**

Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it

may rupture with explosive force. Empty containers retain product residue (solid, 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. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton. Respiratory Protection: No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Celling	Notation
		5 mg/m3	10 mg/m3	_	
		5 mg/m3	-	_	

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Yellow

Physical State: Liquid Odor: Petroleum odor pH; Not Applicable

Vapor Pressure: <0.01 mmHg @ 37.8 °C (100 °F)

Vapor Density (Air = 1): >1
Boiling Point: >315.6°C (60

Bolling Point: >315.6°C (600°F)

Solubility: Soluble in hydrocarbon solvents; insoluble in water.

Freezing Point: Not Applicable Melting Point: Not Applicable

Specific Gravity: 0.86 - 0.9 @ 15.6°C (60.1°F) / 15.6°C (60.1°F)

Density: 0.86 kg/l - 0.9 kg/l @ 15°C (59°F)

Viscosity: 28.8 cSt - 61.2 cSt @ 40°C (104°F) (Min)

#### SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and

handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: None known (None expected)
Hazardous Polymerization: Hazardous polymerization will not occur.

#### **SECTION 11 TOXICOLOGICAL INFORMATION**

#### **IMMEDIATE HEALTH EFFECTS**

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: No product toxicology data available.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

#### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### **ECOTOXICITY**

The 96 hour(s) LC50 for rainbow trout (Oncorhynchus mykiss) is >1000 mg/l.

The 48 hour(s) EC50 for water flea (Daphnia magna) is >1000 mg/l.

This material is not expected to be harmful to aquatic organisms.

#### **ENVIRONMENTAL FATE**

This material is not expected to be readily biodegradable.

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

#### SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Name: NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR

**DOT Hazard Class: NOT APPLICABLE** 

**DOT Identification Number: NOT APPLICABLE** 

**DOT Packing Group: NOT APPLICABLE** 

Additional Information: NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS NOT APPLICABLE.

IMO/IMDG Shipping Name: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION UNDER THE IMDG CODE

https://www.cbest.chevron.com/msdsServer/controller?module=com.chevron.lubes.msds.bus....

IMO/IMDG Hazard Class: NOT APPLICABLE

IMO/IMDG Identification Number: NOT APPLICABLE

IMO/IMDG Packing Group: NOT APPLICABLE

#### SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES: 1. Immediate (Acute) Health Effects: NO

2. Delayed (Chronic) Health Effects: NO

3. Fire Hazard: NO

4. Sudden Release of Pressure Hazard: NO

5. Reactivity Hazard: NO

#### REGULATORY LISTS SEARCHED:

01-1=IARC Group 1

03=EPCRA 313

01-2A=IARC Group 2A

04=CA Proposition 65

01-2B=IARC Group 2B

05=MA RTK

02=NTP Carcinogen

06=NJ RTK

08=PARTK

No components of this material were found on the regulatory lists above.

#### CHEMICAL INVENTORIES:

AUSTRALIA: All the components of this material are listed on the Australian Inventory of Chemical Substances

CANADA: One or more components of this product are not on the Domestic Substances List (DSL). Volume tracking or notification by the Canadian Importer of Record may be required. Please contact ChevronTexaco Global Lubricants.

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

JAPAN: All the components of this product are on the Existing & New Chemical Substances (ENCS) inventory in Japan, or have an exemption from listing.

KOREA: All the components of this product are on the Existing Chemicals List (ECL) in Korea.

PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

#### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be Identified as follows: PETROLEUM OIL (Hydraulic oil)

#### WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

#### **SECTION 16 OTHER INFORMATION**

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0 HMIS RATINGS: Health: 1 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: This revision updates the following sections of this Material Safety Data Sheet: 1, 5, 8, 11, 15

#### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Government industrial Hyglenists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	MSDS - Material Safety Data Sheet
CVX - ChevronTexaco	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the ChevronTexaco Energy Research & Technology Company, 100 Chevron Way, Richmond, California 94802.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamillar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

## RECEIVED

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenuc, 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 / Mytyn

State of New Mexico
Energy Minerals and Natural Resources

JAN 0 7 2004<sub>Revised March 17, 1999</sub>

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

OIL CONSERVATION Submit Original Plus I Copy
BYISION to Appropriate District Office

DATE: 1/07/04

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator Coastal Chemical, LLC	
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Loading Pad in Yard	
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Coastal Chemical	
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico	
7. Location of Material (Street Address or ULSTR) 1130 Madison Lane, Farmington	Project #95007-012	
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 cla approved</li> </ul>	ecessary chemical analysis to PROVE the	
All transporters must certify the wastes delivered are only those consigned for transp	oort.	
BRIEF DESCRIPTION OF MATERIAL:		
New motor oil spilled onto concrete loading pad & mixed with Floor Dry.		
CWS and MSDS attached.	·	
CWS and MSDS attached.		
Estimated Volumecy Known Volume (to be entered by the operator at the en	nd of the haul)cy	
SIGNATURE Jandle Rolling Authorized Agent  TITLE: Landfarm Management Facility Authorized Agent	1	
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	+0 C0 16	
(This space for State Use)  APPROVED BY: Lewy 7000 TITLE: Environ	Engr DATE: 1/06/04	

TITLE: Environmanhl Geologist



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON COVETEGE Joanna Prukop Cabinet Secretary

Lori Wrotenbery Director Oil Conservation Division

•	CERTIF	ICATE OF WASHESDATUS
	. Generator Name and Address	2. Destination Namé:
C	oastal Chenical	Envirotech Inc. Soil Remediation Facility Landfarm #2
11	30 MADISON LANE	Hilltop, New Mexico
٦	ARMINGTON NM 874	61_
3	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
>	IARD OIL LOADENA PAD	
at	tach list of originating sites as appropriate	B
4.	Source and Description of Waste	
v	IRMIN MOTOR OIL SPILLE	OON PAO MER WITH FLOOR DRY
I. Ry	AN ARNOLD	representative for :
· /	Print Name	
COACT	AL CHEM COMPANY	do hamble and California
Conservati	on and Recovery Act (RCRA) and Enviro	do hereby certify that, according to the Resource nmental Protection Agency's July, 1988, regulatory determination, the above
described v	vaste is: (Check appropriate classification	i)
EXE	MPT oilfield waste	NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification
and that no	othing has been added to the exempt or no	n-exempt non -hazardous waste defined above.
	EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	tion is attached (check appropriate items):Other (description
	is in compliance with Regulated Levels subpart 1403.C and D.	of Naturally Occurring Radioactive Material (NORM) pursuant to 20
Vame (Or	iginal Signature):	
litle: WA	REHOUSE ASST. SUPERU	ISOC.
Phone Nur	nber: 325-5095	
Date: /	2-19-03	
	Oil Conservation Divis	tion * 1000 Rio Brazos Road * Aztec New Mexico 87410

Phone: (505) 334-6178 \* Fax (505) 334-6170 \* http://www.enunrd.state.nm.us

# ExxonMobil

## MATERIAL SAFETY DATA BULLETIN

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#### 602466-00 MOBIL PEGASUS 805

#### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805
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 (Primary) CHEMTREC: 800-424-9300
(Secondary) 281-834-3296
Product and Technical Information: 800-662-4525 703-846-6693
MSDS Fax on Demand: 613-228-1467, other MSDS information: 856-224-4644

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES GLOBALLY REPORTABLE MSDS INGREDIENTS:

See Section 8 for exposure limits (if applicable).

#### 3. HAZARDS IDENTIFICATION

None.

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

EMERGENCY OVERVIEW: Light 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.

## EXXONMODII MATERIAL SAFETY DATA BULLETIN

MOBIL PEGASUS 805

602466-00

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#### 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): > 216(420) (ASTM D-92).

Flammable Limits (approx.% vol.in air) - LEL: 0.9%, 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. measures to minimize the effects on ground water. Recover by pumping or contain spilled liquid with sand or other suitable absorbent and remove mechanically into containers. If necessary,

(Section continued next page)

# ExxonMobil

## MATERIAL SAFETY DATA BULLETIN

MOBIL PEGASUS 805

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dispose of adsorbed residues as directed in Section 13.

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

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

PERSONAL PRECAUTIONS: See Section 8

#### 7. HANDLING AND STORAGE

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

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

SPECIAL PRECAUTIONS: Frevent 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.

(Section continued next page)

# ExxonMobil

## MATERIAL SAFETY DATA BULLETIN

MOBIL PEGASUS 805

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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: Light Amber ODOR: Marketable ODOR THRESHOLD-ppm: NE

ph: NA

BOILING POINT C(F): > 288 (550)

MELTING POINT C(F): NA

FLASH POINT C(F): > 216(420) (ASTM D-92)

FLAMMABILITY (solids): NE AUTO FLAMMABILITY: NA EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mankg 20 C: < 0.1

VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.86-0.07

SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: > 3.5 VISCOSITY AT 40 C, aSt: > 50.0 VISCOSITY AT 100 C, cSt: > 10.0

POUR POINT C(F): < -12(18)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE DMSO EXTRACT, IP-346 (WI.8): <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.

# EXXONMODII MATERIAL SAFETY DATA BULLETIN

MOBIL PEGASUS 805

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# 11. TOXICOLOGICAL DATA

### --- ACUTE TOXICOLOGY ---

- ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). --- Based on testing of similar products and/or the components.
- EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). --- Based on testing of similar products and/or the components.
- SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). on testing of similar products and/or the components.
- OTHER ACUTE TOKICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic cils, 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

(Section continued next page)

# MATERIAL SAFETY DATA BULLETIN

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continuing basis using various screening methods such as Modified Ames Test, IP-346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.

--- SENSITIZATION (SUMMARY) ---

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

# 12. ECOLOGICAL INFORMATION

# ENVIRONMENTAL FATE AND EFFECTS:

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

# 13. DISPOSAL CONSIDERATIONS

waste DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

# MATERIAL SAFETY DATA BULLETIN

MOBIL PEGASUS 805

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# 14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

# 15. REGULATORY INFORMATION

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

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

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

The rollowing product ingredients are	e cited on the	ilsts below:
CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
KYLENES (0.03%)	1330-20-7	22
ZINC (ELEMENTAL ANALYSIS) (0.03%)	7440-66-6	22
PHOSPHORODITHOIC ACID, 0,0-DI C1-14-ALKYL ESTERS, ZINC SALTS (2:	68649-42-3	22
· · · · · · · · · · · · · · ·		

(Section continued next page)

# MATERIAL SAFETY DATA BULLETIN

MOBIT. PEGASUS 805

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1) (ZDDP) (0.33%)

			REGULATOR	Y LIS	TS SEA	rchei	)		
1=ACGIH ALL	6=IARC	1	11-TSCA	4	16=CA	P65	CARC	21-LA	RTK
2=ACGIH A1	7=IARC	2 <b>A</b>	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	1D=OSHA	Z	15=TSCA	12b	20 <b>≕IL</b>	RTK		25=PA	RTK
								26=RI	RTK

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

# 16. OTHER INFORMATION

USE: ENGINE LUBRICANT

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

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

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

### INDUSTRIAL LABEL

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

For Internal Use Only: MRC: 1\* 1\* 1\* 1\* 1\*, MPPEC: A, TRN: 602466-00, ELIS: 400795, CMCS97: 97D936, REQ: US - MARKETING, SAFE USE: L EHS Approval Date: 27SEP2001

(Section continued next page)

# MATERIAL SAFETY DATA BULLETIN

MOBIL PEGASUS 805 602466-00 Fage 9 of 9

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

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State of New Mexico 1625 N. French Dr., Hobbs, N Form C-138 Energy Minerals and Natural Resource Revised March 17, 1999 District II 1301 W. Grand Avenue, Artesia, NM Oil Conservation Division Submit Original District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505 NSERVATION 220 South St. Francis Dr. Plus 1 Čopy to Appropriate District Office REQUEST FOR APPROVAL TO ACCEPTSOI Compressor Systems Inc. 1. RCRA Exempt: Non-Exempt:  $\boxtimes$ Verbal Approval Received: Yes  $\square$ No 🖂 5. Originating Site: John Charles #2 2. Management Facility Destination: Envirotech Soil Remediation Facility, 6. Transporter: TBA Landfarm #2 3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 8. State: New Mexico 87401 7. Location of Material (Street Address or ULSTR) 1650' FNL, 990' FWL, Sec Project #01038-015 13, T27N, R9W, San Juan County 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: Engine oil contaminated soil generated when an oil line on an engine broke draining ~50 gallons of oil onto the ground. CWS, MSDS, and analytical attached. Known Volume (to be entered by the operator at the end of the haul) Estimated Volume сy TITLE: Landfarm Manager DATE: December 1, 2003 SIGNATURE Waste Management Facility Authorized Agent TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615

APPROVED BY: May 9th TITLE: Environment Geolgist DATE: 12/15/03



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Guvernor Jounna Prukop Cabinei Secretary Lori Wrotenbery
Director
Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	LA BURLOUS MA
	2. Destination Name:
COMPRESSOR SYSTEMS INC	Envirotech Inc. Soil Remediation Facility
5995 US HWY 64	Landfarm #2
FARMENGTON N.M	Hilltop, New Mexico
3. Originating Site (name):  JOHN CHARLES #2	Location of the Waste (Street address &/or ULSTR):
SECT 13 RAW-TATN FNL 1650' FWE	990'
attach list of originating sites as appropriate	
4. Source and Description of Waste	
ENGIN OIL FROM A BROKE EZL L	INC ON ENGENT DRABNED ABOUT
50 GAHONS ON GROUND	
I, Should RAY Print Name	representative for:
Print Name	
PAMELICEAL CYSTEMS TH	do haraby partify that according to the December
Compaisson SYSTEMS FN Conservation and Recovery Act (RCRA) and Environmental Protect	tion Agency's July 1988, regulatory determination, the above
described waste is: (Check appropriate classification)	atternation, the above
EXEMPT oilfield waste XNON-EXE	EMPT 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  MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	l (check appropriate items): Other (description
Chain of Custody	
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): Kandlo ky	
Fitle: SENSOR SERVECE TECH	
Phone Number: 505 - 632 - 550/ EXT /25	
Date: 1/25/03	

Oil Conservation Division \* 1000 Rio Brazos Road \* Aztec, New Mexico 87410 Phone: (505) 334-6178 \* Fax (505) 334-6170 \* http://www.enurd.state.nm.us



# TRACE METAL ANALYSIS

Client:	CSI	Project #:	01038-001
Sample ID:	Unit #2743	Date Reported:	12-01-03
Laboratory Number:	27295	Date Sampled:	11-25-03
Chain of Custody:	11596	Date Received:	11-25-03
Sample Matrix:	Soil	Date Analyzed:	12-01-03
Preservative:	Cool	Date Digested:	11-26-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.019	0.001	5.0
Barium	2.46	0.001	100
Cadmium	0.001	0.001	1.0
Chromium	0.008	0.001	5.0
Lead	0.017	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.011	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:

John Charles Indian 1-149-8466 Well #2 SWNW Sec 13 T27N R9W.

Analyst

Review /



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-01-03 QA/AC	Date Reported:	12 <del>-</del> 01-03
Laboratory Number:	27295	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	12-01-03
Condition:	N/A	Date Digested:	11-26-03

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.019	0.019	0.0%	0% - 30%
Barium	ND	ND	0.001	2.46	2.49	1.2%	0% - 30%
Cadmium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%
Lead	ND	ND	0.001	0.017	0.017	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.011	0.011	0.0%	0% - 30%
Silver	ND	ND	0.001	ND.	ND	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance
Arsenic	0.500	0.019	0.518	99.8%	80% - 120%
Barium	0.500	2.46	2.98	100.7%	80% - 120%
Cadmium	0.500	0.001	0.500	99.8%	80% - 120%
Chromium	0.500	0.008	0.507	99.8%	80% - 120%
Lead	0.500	0.017	0.516	99.8%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.011	0.510	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	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 27295.

Analyst

# CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location	John Barks In	John Barles Endin 1-149-8466	ANIAL VOICE CONTAINA	O
3	Well # 2	6	403	ANALTOIS / PAHAME I ENS	0
Sampler:	Client No	38-001	o. of ainers  ### 5 ### ### ##### ##### ##### ######		Remarks
Sample No./ Sample Sample Identification Date Time	Lab Number	Sample Matrix	1		
Je. 5 12/30 245 12/30	SPETE	المنهج	>		SWNW SEC 13727
					RAN
Relinquished by: (Signature)		Date Time Rece	Received by: (Signature)	With	Date   Time
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Fax: Prillip Ray @ CSI		ENVROTECHING	2 2 3		<b>+</b>
10 m	1 (2.553)				A/N N/A
Sien		5796 U.S. Highway 64 Farmington, New Mexico 87401	hway 64 Jexico 87401	R	Received Intact
		(505) 632-0615	0615	Coo	Cool - Ice/Blue Ice

PAGE

3

# Material Safety Data Sheet

Click on the product name to go to the Salesfax description sheet. Click on the grade to go to the Salesfax typical test data sheet. Chevron HDAX® Low Ash Gas Engine OilsSAE 15W-40, 30, 40 MSDS: 7046 Revision #: 1 Revision Date: 02/18/99

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# CHEVRON HDAX Low Ash Gas Engine Oil and HDAX LFG

PRODUCT NUMBER(S): CPS232325 CPS232327 CPS232328 CPS232331 SYNONYM: CHEVRON HDAX Low Ash Gas Engine Oil SAE 15W-40. CHEVRON HDAX Low Ash Gas Engine Oil SAE 30 CHEVRON HDAX Low Ash Gas Engine Oil SAE 40 CHEVRON HDAX LFG Gas Engine Oil SAE 40

# COMPANY IDENTIFICATION

Chevron Products Company Global Lubricants 555 Market St. Room 803 San Francisco, CA 94105-2870

# EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or (510)231-0623 (International) TRANSPORTATION (24 hr): CHEMTREC (800)424-9300 or (703)527-3887 Emergency Information Centers are located in U.S.A. Int'l collect calls accepted

DDUCT INFORMATION: MSDS Requests: (800) 414-MSDS or (800) 414-6737 Environmental, Safety, & Health Info: (415) 894-0434

Product Information: (800) 582-3835

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

### 100.0 € CHEVRON HDAX Low Ash Gas Engine Oil and HDAX LFG

CONTAINING

COMPONENTS TRUOMA LIMIT/QTY AGENCY/TYPE

LUBRICATING BASE OIL SEVERELY REFINED PETROLEUM DISTILLATE

> 75.00% 5 mg/m3 (mist) ACGIH TWA

10 mg/m3 (mist) ACGIH STEL 5 mg/m3 (mist)OSHA PEL

The BASE OIL may be a mixture of any of the following: CAS 64741884. CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, or CAS 72623837.

ADDITIVES INCLUDING THE FOLLOWING < 25.00%

NC ALKARYL DITHIOPHOSPHATE ...emical Name: ZINC ALKARYL DITHIOPHOSPHATE FILE No.472 11/25 '03 AM 11:31 ID:COMPRESSOR SYSTEMS INC. FAX:15056328985

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CAS54261675

< 1.50%

NONE

NA

PAGE

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control hat Chemical Substances Inventory.

unis product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

### 3. HAZARDS IDENTIFICATION

# POTENTIAL HEALTH EFFECTS

EYE:

Not expected to cause prolonged or significant eye irritation.

SKIN:

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

INGESTION:

Not expected to be harmful if swallowed.

INHALATION:

Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit.

# ...4. FIRST AID MEASURES

EYE:

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.

SKIN:

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse. INGESTION:

No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person. INHALATION:

If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

# 5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

assification (29 CFR 1910.1200): Not classified by OSHA as flammable or imbustible.

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use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits.

# ""RSONAL PROTECTIVE EQUIPMENT

I/FACE PROTECTION:

no special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice. SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Viton> <Nitrile> <Silver Shield> <4H>> RESPIRATORY PROTECTION:

No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended mineral oil mist exposure limits. If not wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material. Use the following elements for air-purifying respirators: particulate.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Dark amber liquid.

pH:

VAPOR PRESSURE:

NA

VAPOR DENSITY

(AIR=1):

PAILING POINT:

NA NDA

EZING POINT:

NDA

TELTING POINT:

NA

SOLUBILITY:

Soluble in hydrocarbon solvents; insoluble in water.

SPECIFIC GRAVITY: 0.88 @ 15.6/15.6C

EVAPORATION RATE: NA

VISCOSITY:

11.0 - 14.4 cSt @ 100C (min.)

PERCENT VOLATILE

(VOL):

NA

# 10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

H2S may be released at high temperatures.

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

# 11. TOXICOLOGICAL INFORMATION

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# EYE EFFECTS:

The eye irritation hazard is based on an evaluation of the data for the components.

SKIN EFFECTS:

The skin irritation hazard is based on an evaluation of the data for the appnents.

ACUTE ORAL EFFECTS:

The acute oral toxicity is based on an evaluation of the data for the components.

ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on an evaluation of the data for the components.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

This product contains zinc alkaryl dithiophosphate which is similar in toxicity to zinc alkyl dithiophosphate (ZDDP). Several (ZDDPs) have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic to the test cells. We do not believe that there is any mutagenic risk to workers exposed to ZDDPs.

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and attinuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. See Chevron Material Safety Data Sheet No. 1793 for additional information on used motor oil.

# 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

ENVIRONMENTAL FATE:

This material is not expected to be readily biodegradable.

# 13. DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

# 14. TRANSPORT INFORMATION

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The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

" SHIPPING NAME: NONE LUT HAZARD CLASS: NONE

DOT IDENTIFICATION NUMBER: NONE

DOT PACKING GROUP: N/A

ADDITIONAL INFO: Petroleum Lubricating Oil - Not Hazardous by U.S. DOT.

ADR/RID Hazard class - Not applicable.

# 15. REGULATORY INFORMATION

SARA 311 CATEGORIES:

- 1. Immediate (Acute) Health Effects: NO
- 2. Delayed (Chronic) Health Effects: NO
- 3. Fire Hazard: NO
- Sudden Release of Pressure Hazard: NO
- . Reactivity Hazard:

### REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ RTK	22=TSCA Sect 5(a)(2)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=NTP Carcinogen	13=MN RTK	24=TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26=TSCA Sect 8(d)
06=IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07=IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
.08=IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
SARA 302/304	19=Chevron TWA	30=Chevron STEL
_U=PA RTK	20=EPA Carcinogen	

The following components of this material are found on the regulatory lists indicated.

# ZINC ALKARYL DITHIOPHOSPHATE is found on lists: 01,11,

SEVERELY REFINED PETROLEUM DISTILLATE

is found on lists: 14,15,17,

# EU RISK AND SAFETY LABEL PHRASES:

May cause long-term adverse effects in the aquatic environment.

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL

New Jersey Right-To-Know trade secret registry number 01154100-5031P New Jersey Right-To-Know trade secret registry number 01154100-5063P New Jersey Right-To-Know trade secret registry number 01154100-5024P WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

### 16. OTHER INFORMATION

PA RATINGS: Health 1; Flammability 1; Reactivity 0;

HMIS RATINGS: Health 1; Flammability 1; Reactivity 0; (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection sociation (NFPA) or the National Paint and Coating Association (+or HMIS ratings).

# REVISION STATEMENT:

A1-5 - Appendix A Categories

NDA - No Data Available

This revision was updated to address: Section 1 (Name change).

# ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value TWA - Time Weighted Average

STEL - Short-term Exposure Limit TPQ - Threshold Planning Quantity RQ - Reportable Quantity PEL - Permissible Exposure Limit

CAS - Chemical Abstract Service Number

() - Change Has Been Proposed

NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology and Health Risk Assessment Unit, CRTC, P.O. Box 1627, Richmond, CA 94804

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon dition that the person receiving it shall make his own determination the suitability of the material for his particular purpose.

THIS IS THE LAST PAGE OF THIS MSDS

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505.

APPROVED BY: Must

State of New Mexico Energy Minerals and Natural Resources

DATE: /2ー3ー03

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

District II Ene
District III Fig. 1000s, NM 88219 NOV 2 5 2003 1000 Rio Brazos Road, Aztec, NM 87410

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ⊠	4 Generator Sunland Construction
Verbal Approval Received: Yes No 🖂	5. Originating Site: Pipeline ROW
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Sunland Construction
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: Colorado to New Mexico
7. Location of Material (Street Address or ULSTR) Pipeline road bore 5 miles from intersection of CR 222 and 510 in La Plata County	Project #02022-003
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste claapproved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transp	port.
BRIEF DESCRIPTION OF MATERIAL:	
Soil contaminated with transmission fluid generated when the hose on a ro	oad-boring machine broke.
CWS, MSDS, and notification to CDPHE attached.	
Estimated Volume 30 sand bags cy Known Volume (to be entered by the operator at	the end of the haul)cy
SIGNATURE Management Facility Authorized Agent  TITLE: Landfarm Management Facility Authorized Agent	ager DATE: November 20, 2003
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	7,0101-
(This space for State Use)	FOR BASE 1/1211/05

TITLE: Environne



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor Joanna Prukop Cadact Secretary NON

Lori Wrotenbery
Director
Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1. Generator Name and A	ddress	2. Destination Name:
SUNLAND CONS	struction)	Envirotech Inc. Soil Remediation Facility
BIG DE AZTEC	- BL10	Landfarm #2
AZTEC NM 87	410	Hilltop, New Mexico
3. Originating Site (name		Location of the Waste (Street address &/or ULSTR):
PIPECINE ROADSO	LE 5MI FROM INTUR	SECTION OF CR 222 AND 510 IN
LAPLATA, CO.		
attach list of originating sit	es as appropriate	
4. Source and Description	of Waste	
SOIL CONTAMIA	DATED WITH TRANS/	MISSION FLUID GENERATED WHEN
HOSE ON ROAD B	ORE MACHINE BROK	E,
I, RICHARD J LOME	YARDO	representative for :
Print Na	ne .	
SUNIAND CONSTRU	TON'	do hombo continue de la continue de la
Conservation and Recovery Act (RC	RA) and Environmental Protecti	do hereby certify that, according to the Resource ion Agency's July, 1988, regulatory determination, the above
described waste is: (Check appropri	ate classification)	
`	,	
EXEMPT oilfield waste	<u></u> ✓NON-EXEN	MPT oilfield waste which is non-hazardous by characteristic
	analysis o	or by product identification
and that nothing has been added to t	he exempl or non-evenint non-l	DOZUMINIS BURGLA daffword shows
and that housing this occi, added to t	to exempt of non-exempt (180) -1	razardona waste defined arove.
or NON-EXEMPT waste the follo	wing documentation is attached (	(check appropriate items)
MSDS Information		ther (description
RCRA Hazardous Waste		, , , , , ,
Chain of Custody		
This waste is in compliance with R VMAC 3.1 subpart 1403.C and D.	egulated Levels of Naturally O	ccurring Radioactive Material (NORM) pursuant to 20
TVIAC 5.1 SUDDAFT 1405.C and D.		
lame (Original Signature):	challited who	
itle: CONSTRUCTION CO	ORDINATOR	
hone Number: SOS 334 (	<del>350</del>	
Pate: 11/19/03		
Oil Co	econsties Division # 1000 Die	Promis B. Life & A. St. St. St. St. St. St. St. St. St. St

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

Page 1 or 9.

# Equiva Services - MSDS

MATERIAL SAFETY DATA SHEET Revision Date: 06/18/2003



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: FormulaShell\* ATF Mercon/Derion III-DONAX TG

MSDS NUMBER: 60486E - 0
PRODUCT CODE(S): 53010

MANUFACTURER ADDRESS: SOPUS Products, P.O. Box 4453, Houston, TX. 77210-4453

还要有谁在我只要有什么,我们有了了了!——你看看你的想道你没有有有有有有有有有有有有的,我们也没有有有的,我们们的是有有有效的,你们们们们们们们们们们们们们们们 "

وربيت والمساح والمستان والمستوان والمستوان والمستوان والمستوان والمناسون والمستوان وال

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

Automatic Transmission Fluid
Mixture 90 - 98.99 Aweight Highly refined petroleum oils

Mixture 1 - 4.99 Aweight Proprietary additives

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance & Odor: Red oil. Slight Hydrocarbon Odor.

Health Hazards: No known immediate health hazards.

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

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

Extreme - 4

Inhalation:

In applications where vapors (caused by high temperature) or mists (caused by mixing or spraying) are created, breathing may cause a mild burning sensation in the nose, throat and lungs.

Eye Irritation:

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

skin Contact;

Lubricating oils are generally considered no more than minimally irritating to the skin. Prolonged and repeated contact may result in defetting and drying of the skin that may cause various skin disorders such as dermatitis, folliculitis or oil acne. Other adverse effects not expected from brief

Page 2 or y

# Equiva Services - MSDS

skip contact.

Ingestion:

Generally considered to have a low order of acute oral toxicity.

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:

Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

3kin:

Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with scap 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 with water. If irritation occurs, get medical attention.

Ingastion:

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.

SECTION 5 FIRE FIGHTING MEASURES

rlash Point [Mathod]: >370 °F/>187.70 °C [ Cleveland Open Cup]

Extinguishing Media:

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:

Material will not burn unless preheated. Do not enter confined fire space

Page 3 of 9

# Equiva Services - MSDS

without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus.

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  $\theta$ .

Spill Management:

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

FOR SMALL SPIDLS: 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.

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.

SECTION 7 HANDLING AND STORAGE

# 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.

### Storage:

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

# Equiva Services - MSDS

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

EXPOSURE CONTROLS Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Eye washes and showers for emergency use.

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 liverature, 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, MIOSH approved respirator. Self-contained breathing apparatus for use in environments with unknown concentrations or emergency situations.

PHYSICAL AND CHEMICAL PROPERTIES SECTION 9

Appearance & Odor: Red oil, Slight Hydrocarbon Odor. Substance Chemical Family: Lubricants Appearance: Red oil.

Flash Point: > 370 °F (Claveland Open Sup)

Odor: Slight Hydrocarbon Odor.

Pour Foint: -45 °F - -50 °F

Specific Gravity: 0.86 - 0.87

Viscosity: 30 cSt - 40 cSt @ 40 °C

SUNLAND CONSTRUCTION

PAGE 07

Ø 008 rage 5 of y

Equiva Services - MSDS

Canyon State 011

REACTIVITY AND STABILITY SECTION 10

Material is stable under normal conditions.

Conditions to Avoid:

Avoid heat and open flames.

Magarials 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. Aldehydes, Carbon Monoxide, Carbon Dioxide, Ketones

相信性素 人名英西西比斯 医克克斯氏脑管炎 医异异异异物性试验检尿红红斑白白白斑结肠神经白白白白色乳气性 有难法难嫌 医萨尔斯氏氏征 化自己自己异己基础

ちくさ もが はち ちゅうし こーシー しなこぞ ちち ちかい ほうしょうしょ 相手がかいしょし トーラロス こくにん うしょう うしょい だんじじ しゅび は はいし レー・・・・・・・

and other unidentified organic compounds may be formed upon combustion.

TOXICOLOGICAL INFORMATION SECTION 11

Acute Toxicity Dermal LD50 >5.0 g/kg(Rat) OSHA: Non-Toxic Based on components(s) Oral LD30 >5.0 g/kg(Rat) OSHA: Non-Toxic Based on components(s)

Carcinogenicity Classification

Automatic Transmission Fluid

NTP: No IARC: Not Reviewed ACGIE: No OSHA: No

ECOLOGICAL INFORMATION SECTION 12

Environmental Impact Summary: There is no ecological data available for this product. However, this product is an cil. It is persistent and does not readily blodegrade. However, it

does not bloaccumulate.

SECTION 13 DISPOSAL CONSIDERATIONS

RCRA Information:

Under RORA, 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

Page 6 or 9

Equiva Services - MSDS

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.

SECTION 15 REGULATORY INFORMATION

FEDERAL REGULATORY STATUS

OSHA classification:

Under normal conditions of use or in a foresteable 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 & Resuthorization 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): There are no components in this product on the SARA 313 list.

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

Other Chemical Inventories: Component(a) of this material is (are) listed on the Australian ATCS, Canadian DSL, European EINECS,

State Regulation

Chemical Substances.

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Equiva Services - MSDS

SECTION 16 OTHER INFORMATION

Revision#: 0

Revision Date: 06/18/2003

Revisions since last change (discussion): This Material Safety Data Sheet (MSDS) has been newly 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.

SECTION 17 LABEL INFORMATION

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): 53010

formula5hc11 ATF Mercon/Dexron III-DONAX TG

ATTENTION!

PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE OIL ACNE OR DERMATITIS.

# 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: Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

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

Bye Contact: Flush with water. If irritation occurs, get medical attention. 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 apontaneously, keep head below hips to prevent aspiration. Have victim ringe mouth out with water, then drink sips of water to remove taste from mouth.

FIRE

# Equiva Services - MSDS

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

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

NFPA Rating (Health, Fire, Reactivity): 6, 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.

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 4453 Houston, TX 77210-4453

# ADMINISTRATIVE INFORMATION

SOPUS Products, P.O. Box 4453, Houston, TX. MANUFACTURER ADDRESS:

77210-4453 Company Product Stewardship & Regulatory Compliance Contact: Timothy W Childs Phone Number: (291) 874-7708

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 HEREIX. 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

SUNLAND CONSTRUCTION CADVON State 011

PAGE 11

Equiva Services - MSDS

Page 9 of 9

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.

37894-11504-100R-06/16/2003

[Click here and type address]

# ta facsimile transmittal

То:	DONNA STONER	Fax:	970-248-71			
From:	SUNLAND CONSTRU	JCTION Date:	11/19/03			
Re:	SPILL NOTICE	Pages:	2	•		
CC:						
□ Urgei	nt ☑ For Review	☐ Please Comment	☐ Please Reply	☐ Please Recycl		

MRS SIQNER,

HUST GOT OFF THE PHONE WITH LANY WITH ENVIROTECH ABOUT SOME

CONTAMINATED SOIL THAT WE ARE GOING TO TAKE TO THEIR LANDFARM HERE

NINEW MEXICO. SHE WANTED ME TO DROP YOU A LINE TO MAKE YOU AWARE

OF WHAT WE WERE DOING. THE CONTAMINATED SOIL THAT WE ARE SENDING TO

HER CAME FROM A ROAD BORE MACHINE OPERATED BY KELLY CABLE OUT OF

ALBUQUERQUE, NM. A TRANSMISSION LINE BROKE WHILE PERFORMING A ROAD

BORE ON CR 510 APPROX. 5 MILES FROM THE INTERSECTION OF CR 222 AND 510.

THE SPILL WAS CLEANED UP UNDER THE SUPERVISION OF SUNLAND AND BP

AMOCO REPS. AND AS I MENTIONED ABOVE WILL BE TAKEN TO ENVIROTECHS

LAND FARM. (APPROX. 30 SAND BAGS WORTH OF CONTAMINATED SOIL).

IF YOU HAVE ANY QUESTIONS PLEASE FEEL FREE TO CONTACT ME.

THANKS,

RICH LOMBARDO 505-334-4350

martyne

\_cy

DATE: 09/23/03

District I<sup>2</sup>
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

Estimated Volume 21 cy

# 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

	1 SULID WASTE			
1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator: Devon Energy Production Co.			
Verbal Approval Received: Yes ⊠ No ☐ Denny Foust 9/22/03	5. Originating Site: NEBU 497A			
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA			
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico			
7. Location of Material (Street Address or ULSTR) "H" Sec 30, T31N, R6W, Rio Arriba County	Project #01058-			
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied be one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste capproved</li> <li>All transporters must certify the wastes delivered are only those consigned for transporters.</li> </ul>	necessary chemical analysis to PROVE the classified hazardous by listing or testing will be			
BRIEF DESCRIPTION OF MATERIAL:	and the same of th			
Soil contaminated with new No. 2 Red Dye Diesel.				
Soil contaminated with new No. 2 Red Dye Diesel.				

SIGNATURE Management Facility Authorized Agent

TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615

Known Volume (to be entered by the operator at the end of the haul)

(This space for State Use)	
APPROVED BY: Henry lovet T	ITLE: Environmenta 1/Engrate: 9/30/03
$\mathcal{M}$	ITLE: Environmental Geologist DATE: 10/1/03
THIRD VED BI	DITTE. 101.105





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop

Cabinet Sceretary

Lori Wrotenbery
Director
Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name:
Devon Energy Production Co. L	Envirotech Inc. Soil Remediation Facility
1751 Hiway 511	Landfarm #2
, , , , , , , , , , , , , , , , , , ,	Hilltop, New Mexico
	1419
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
NEBU 497 A	"H" Sec 30, T310, RGW, Rio aruba
110.00	MA 20050 11 STITICOW ROLL WINDS
attach list of originating sites as appropriate	
4. Source and Description of Waste	
Top soil contaminated with	No Diesel Frel
THE SELL COMMENTERS WITH	
·	
Robert A. Juden	representative for:
1, Robert A. Jardan Print Name	representative for :
Time ready	
Daviso Energy Production Co	do hereby certify that, according to the Resource Protection Agency's July, 1988, regulatory determination, the above
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 XNON	N-EXEMPT oilfield waste which is non-hazardous by characteristic
ar	alysis or by product identification
and that nothing has been added to the exempt or non-exemp	t non—hazardous waste defined above.
For NON-EXEMPT waste the following documentation is at	tached (check appropriate items):
MSDS Information	Other (description
RCRA Hazardous Waste Analysis	
Chain of Custody	
This waste is in compliance with Regulated Levels of Natu	rally Occurring Radioactive Material (NORM) pursuant to 20
VMAC 3.1 subpart 1403.C and D.	· ·
Vame (Original Signature):	
5 .III C	
Pitle: Drilling Supervisor	·
<b>y</b> _ `	
hone Number: (606) 380-1395	
Date: 9-23-03	



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

# MATERIAL SAFETY DATA SHEET

## EMERGENCY PHONE NUMBERS:

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

# LOW SULFUR DIESEL FUEL

# SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: DIESEL FUEL

CAS NUMBER: 68476-34-6

CHEMICAL FAMILY: Petroleum Hydrocarbon

FORMULA: C<sub>10</sub>H<sub>22</sub>-C<sub>16</sub>H<sub>34</sub>

SYNONYMS: Diesel Fuel #2, Petroleum Distrillate, Diesel, #2 Fuel Oil NA 1993, Highway Diesel, Off Road Diesel (if dyed red).

NFPA 704 SYMBOL

# SECTION 2 - HAZARDOUS INGREDIENTS

APPROX

HAZARDOUS COMPONENTS	CAS NO.	.1	VOL%	TLV	STEL	PEL (OSHA)	IDLH
DIESEL FUEL (containing)	68476-34-6		99	NA	NA	NA	NA
Naphalene	ĕ 91-20-3	ĕ	1	ĕ10 ppmĕ	NA	ĕ 10 ppm 8	ĕ 250

OTHER INGREDIENT INFORMATION:

Sulfur in the form of mercaptans or hydrogen sulfide may be present greater than 0.05% by weight.

# SECTION 3 - PHYSICAL DATA

BOILING POINT: -315-575°F VAPOR PRESSURE: @100°F 25mm Hg

VAPOR DENSITY (AIR=1): N/A SOLUBILITY IN WATER: Insoluble

ODOR THRESHOLD: N/A

APPEARANCE AND ODOR: Clear to yellow liquid. Oily, petroleum odor. May be dyed red in off road usage (agricultural, mining, etc.).

SPECIFIC GRAVITY (WATER=1): 0.7-0.8

% VOLATILE BY VOLUME: N/A

EVAPORATION RATE: No data available AUTOIGNITION TEMP: 490-546°F

# LOW SULFUR DIESEL FUEL

# SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

CLASSIFICATION: CLASS II, COMBUSTIBLE LIQUID

FLASH POINT: 140°

FLASH POINT:  $140^{\circ}$  (PMCC) FLAMMABLE LIMITS: LEL = 0.7% UEL = 5.0%

(moderate)

EXTINGUISHING MEDIA: Foam dry chemical, carbon dioxide, Halon. SPECIAL FIRE FIGHTING PROCEDURES: Move container from fire area if possible. Use water

to keep fire exposed container cool. Use foam for spill control.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Evacuate a radius of 800 feet for uncontrolled fires. Vapors are heavier than air and may travel great distances and flash back.

# SECTION 5 - REACTIVITY DATA

STABILITY: Stable

NFPA FIRE = 2

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID/INCOMPATABILITY: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and sulfur dioxide...

NFPA REACTIVITY = 0(minimal)

# SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, ingestion, skin contact.

HEALTH HAZARDS: Irritant\Narcotic. Depression of central nervous system ranging from headaches to death. Kidney and liver damage possible. Aspiration into lungs can cause severe lung damage leading to pulmonary edema and bronchial pneumonia.

CARCINOGENICITY: Inadequate evidence as a human carcinogen. Limited evidence as an animal carcinogen. Not listed by NTP. IARC Class-2B. Recent studies have shown diesel exhaust to be potentially carcinogenic.

SIGNS AND SYMPTOMS OF EXPOSURE: Respiratory tract irritation. May cause nausea, cramping, headaches, coughing or gagging and depression of the central nervous system.

EMERGENCY AND FIRST AID PROCEDURES

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

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

Flush eyes with water for at least 15 minutes. Seek medical attention.

Remove diesel soaked clothing. Wash skin with soap and water. If irritation Persists seek medical attention.

NFPA HEALTH = 0 (minimal)

# HIGH SULFUR DIESEL FUEL SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

# STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all sources of ignition. Contain spill. Use water fog to suppress vapor cloud. Use SCBA to avoid breathing vapors. Absorb liquid with sand or clay.

- WASTE DISPOSAL: Dispose in accordance with RCRA regulations. Do not put in sewers or any water course.
- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: All equipment and storage containers should be properly grounded. This material is subject to OSHA and DOT regulation. Portable metal containers should be bonded to the storage container before transferring liquid.
- OTHER PRECAUTIONS: Avoid breathing vapors. Vapors may be explosive. Do not weld on containers unless properly cleaned and purged using safe work procedures. Trace amounts of hydrogen sulfide may be present in the product. Accumulation of hydrogen sulfide may occur in vapor spaces of confined spaces where this product is handled, stored or used.

# SECTION 8 - ENVIRONMENTAL AND SPECIAL PROTECTION INFORMATION

- RESPIRATORY PROTECTION: Use NIOSH\MSHA approved respiratory protection in areas exceeding exposure limits, the type to be determined by the degree of exposure.
- VENTILATION: Use in well ventilated area or provide ventilation to limit exposure to acceptable levels.
- EYE/SKIN PROTECTION: Rubber gloves, face shields, goggles or safety glasses with side shields, coveralls.
- WORK/HYGIENIC PRACTICES: Remove contaminated clothing as soon as possible. Always wash after handling hazardous chemicals.
- NOTICE: This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 128 FOR ADDITIONAL EMERGENCY INFORMATION.

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

# RECEIVED

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

# State of New Mexico Energy Minerals and Natural Resources y 0 3 2003

Oil Conservation Division CONSERVATION **DIVISION** 

Submit Original Plus 1 Copy to Appropriate District Office

Revised March 17, 1999

Form C-138

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1220 South St. Francis Dr.

Santa Fe, NM 87505

REQUEST TORTHER TO THE EST	1 2 2 2 2 1 1 2 2 2 2			
1. RCRA Exempt: ☑ Non-Exempt: ☑	4. Generator: Coastal Chemical, LLC			
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Hwy 550 (7 miles North of Aztec, New Mexico)			
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech			
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico			
7. Location of Material (Street Address or ULSTR) Hwy 550, 7 miles North of Aztec, New Mexico	Project #95007-014			
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 cla approved</li> </ul>	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be			
All transporters must certify the wastes delivered are only those consigned for transporters	ort.			
BRIEF DESCRIPTION OF MATERIAL:				
Unused motor oil – Conoco GEO 15/40.				
CWS and MSDS attached.				
Estimated Volume 3 barrels cy Known Volume (to be entered by the operator at	the end of the haul)cy			
SIGNATURE LANGUAGE Facility Authorized Agent  TITLE: Landfarm Management Facility Authorized Agent	nger DATE: <u>10/28/03</u>			
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615				

(This space for State Use) TITLE: Environmental APPROVED BY: DATE: //



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prekop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name:				
Coastal Chemical	Envirotech Inc. Soil Remediation Facility				
Coas at Grenital	Landfarm #2				
1130 Madison Lane	Hilltop, New Mexico				
Jeanning ton VM 8740 3. Originating Site (name):	7 Minop, New Mexico				
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):				
7 miles North of	12tec Um on				
Huy oso					
attach list of acioinating sites as appropriate					
attach list of eriginating sites as appropriate  4. Source and Description of Waste					
unused motor oil	Conoco GEO 15/40				
I, Troy L. WAtson	representative for :				
/ Print Name					
Coastal Chemica	do hereby certify that, according to the Resource				
Conservation and Recovery Act (RCRA) and Environmental Protecti	on Agency's July, 1988, regulatory determination, the above				
described waste is: (Check appropriate classification)	,				
EXEMPT oilfield waste	MPT oilfield waste which is non-hazardous by characteristic				
analysis o	or by product identification				
	·				
and that nothing has been added to the exempt or non-exempt non -	azzardous waste defined above.				
For NON-EXEMPT waste the following documentation is attached					
	ther (description				
RCRA Hazardous Waste Analysis					
Chain of Custody					
This waste is in compliance with Regulated Levels of Naturally O	courring Radioactive Material (NORM) pursuant to 20				
NMAC 3.1 subport 1403.C and D.					
Name (Original Signature): //or/	,				
Title: Area Managen					
Phone Number: 505- 327-9280					
Date: 10/24/0.3					

Oil Conservation Division \* 1000 Rio Brazos Road \* Aztec, New Mexico 87410 Phone: (505) 334-6178 \* Fax (505) 334-6170 \* http://www.enmrd.state.nm.us

Lubricants - Material and Safety Data Sheets

Page 1 of 6



0-10

Click here for the PDF version

**EL MAR GEO** 

# 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

EL MAR GEO

MSDS Code: MOTC0055

Revision Date: 19-Oct-2000

"EL MAR" is a registered trademark of Conoco.

Product Use:

Natural Gas Engine Oil

Grade:

15W-40, 30/40

Conoco Blend Codes: 7511, 7512

MANUFACTURER/DISTRIBUTOR

Conoco Inc.

P.O. Box 2197

Houston, TX 77252

MANUFACTURER/DISTRIBUTOR

Conoco Inc.

PO Box 2197

Houston, TX 77252

PHONE NUMBERS

Product Information : 1-281-293-5550

Transport Emergency : CHEMTREC 1-800-424-9300 (domestic)

1-703-527-3887 (international; call collect)

Medical Emergency

: 1-800-342-5119 or 1-281-493-2767

WEB SITE

: www.conoco.com

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

CAS Numbers 64741-88-4

30-100

Highly refined base oils

64741-89-5

0-60

Proprietary additives

If oil mist is generated, exposure limits apply. (See Section 8.)

3. HAZARDS IDENTIFICATION

--- EMERGENCY OVERVIEW ---

APPEARANCE / ODOR

Light brown liquid / mild petroleum hydrocarbon odor.

OSHA REGULATORY STATUS

This material is not known to be hazardous as defined under OSHA Regulations.

HMIS RATING

### Health: 1; Flammability: 1; Reactivity: 0

### 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. "USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

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 or ACGIH as a carcinogen.

\_\_\_\_\_\_

### 4. FIRST AID MEASURES

### 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.

Eve Contact

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

Ingestion

Material poses an aspiration hazard. If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

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.

### 5. FIRE FIGHTING MEASURES

\_\_\_\_\_

Flammable Properties

Flash Point (15W-40) : 205 C (401 F) (Minimum) Method: PMCC

235 C (455 F) (Typical) Method: COC 263 C (505 F) (Typical) Method: COC (30/40)

Autoignition : Not Available
NFPA Classification : Class IJIB Combustible Liquid.
NFPA Rating : Health 0; Flammability 1; Reactivity 0

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 spray 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.

### 6. 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, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

### 7. 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.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. 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 cool, dry, well-ventilated place. Store away from oxidizers, heat, sparks and flames.

### 8. 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.

### OTHER PRECAUTIONS

Avoid any prolonged or repeated skin contact with "used" motor oil.

Lubricants - Material and Safety Data Sheets

```
Wash thoroughly with soap and water after contact.
  Applicable Exposure Limits
    If oil mist is generated, exposure limits apply.
    PEL (OSHA) : 5 mg/m3, 8 Hr. TWA
TLV (ACGIH) : 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3
9. PHYSICAL AND CHEMICAL PROPERTIES
 Physical Data
    Vapor Pressure : Nil
Vapor Density : >1 (Air=1.0)
    Vapor rressur:
Vapor Density :>1 (Air=1.
% Volatiles : Nil
Evaporation Rate : Nil
Solubility in Water : Insoluble
: Petroleum
                       : Petroleum Hydrocarbon (mild).
    Form
                       : Liquid.
    Color : Brown (light).

Specific Gravity : 0.87-0.88 @ 60 F (16 C)

Density : 7.31-7.34 lb/gal @ 60 F (16 C)
10. STABILITY AND REACTIVITY
 Chemical Stability
    Stable.
 Conditions to Avoid
    Heat, sparks, and flames.
 Incompatibility with Other Materials
    Incompatible or can react with oxidizers.
 Decomposition
    Normal combustion forms carbon dioxide; incomplete combustion may
    produce carbon monoxide.
 Polymerization
    Polymerization will not occur.
    11. TOXICOLOGICAL INFORMATION
   Mouse skin painting studies have shown that highly solvent-refined
    petroleum distillates similar to ingredients in this product have
    not caused skin tumors.
    "USED" Motor Oil -
    Laboratory studies with mice have shown that "Used" motor oil
    applied repeatedly to the skin caused skin cancer. In these studies,
    the "Used" motor oil was not removed between applications.
12. ECOLOGICAL INFORMATION
   Ecotoxicological Information
   No specific aquatic data available for this product.
13. 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
```

### Lubricants - Material and Safety Data Sheets

containers should be disposed of in an environmentally safe manner. 14. TRANSPORTATION INFORMATION \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Shipping Information DOT: Not regulated. ICAO/IMO: Not restricted. # 15. 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 SARA, TITLE III, 302/304 This material is not known to contain extremely hazardous substances. SARA, TITLE III, 311/312 Acute : No Chronic : No Fire : No Reactivity : No Pressure : No SARA, TITLE III, 313 This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements. Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710). **RCRA** This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria. 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 : Petroleum Hydrocarbons. Reportable Quantity : Film or sheen upon or discoloration of any water surface. State Regulations (U.S.) CALIFORNIA "PROP 65" This material may contain trace amounts of ingredients known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions. PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT This material is not known to contain any ingredient(s) subject to the Act. Canadian Regulations This is not a WHMIS Controlled Product.

### 505 327 9302 'áU

### Lubricants - Material and Safety Data Sheets

Page 6 of 6

NOTE: This product or any other hydrocarbon-based lubricant should not be used in non-diaphragm compressors that produce "breathing air" unless the outlet is monitored continuously for carbon monoxide. These lubricants can produce carbon monoxide when subjected to high temperatures.

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 Coordinator

Address

: Conoco Inc. : PO Box 2197

>

: Houston, TX 77252

Telephone

: 1-281-293-5550

# Indicates updated section.

End of MSDS

Questions can be directed to our MSDS administrator.

services contacts news and info

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CEIVED District !\*
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Energy Minerals and Natural Resources

District III

District III

District III

District III

District III 1000 Rio Brazos Road, Aztec, NM 87410

Oil Conservation Division

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

DIVISION

Santa Fe, NM 87505

Santa Fe, NM 87505

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVA	L TO ACCEPT SOLID,	WASTE
---------------------	--------------------	-------

1. RCRA Exempt: □ Non-Exempt: □	4. Generator: Conoco Phillips
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Argenta CDP
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: Colorado to New Mexico
7. Location of Material (Street Address or ULSTR) "O" Sec 4, T33N, R10W, La Plata County	Project #96052-044
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste capproved</li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	
Stained soil from cleanup around compressor skids and used lube ocontamination).	oil tanks (possible motor and/or lube oil
CWS, notification to CDPHE, and Analytical attached.	
CW3, notification to CDI TIE, and Analytical attached.	
Estimated Volume $\underline{\sim}30$ cy Known Volume (to be entered by the operator at the end	of the haul)cy
SIGNATURE Sandula R. Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 10/03/03
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	2-£9 <b>\$</b> 00/
(This space for State Use)	
APPROVED BY: Demy found TITLE: Enviro	/Engl DATE: 10/6/2003
APPROVED BY: May Silf. TITLE: Environmm.	In 1 6 cdays + DATE: 10/8/03
	· · · · · · · · · · · · · · · · · · ·

1. Generator Name and Address

5525 Highway 64

ConocoPhillips Company

Farmington, NM 87401

Envirotech Inc. Soil Remediation Facility



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

2. Destination Name:

Landfarm #2

Hilltop, New Mexico

BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

### CERTIFICATE OF WASTE STATUS

	3. Originating Site (name):  Location of the Waste (Street address &/or ULSTR):  HYGUNTA CPD  O" Section 4, T33N, RIOW  La Plata County, Co  attach list of originating sites as appropriate
-	4. Source and Description of Waste Stained soil from clean-up around compressor skids is used lube oil tanks (possible motor i/or lube oil) ~ 30 cy of soil (2 "silver bullet" containers)
Ι,	Movica D. Olson representative for:  Print Name
describe	ConocoPhillips Company  do hereby certify that, according to the Resource ation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above downwaste is: (Check appropriate classification)  EMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification  nothing has been added to the exempt or non-exempt non -hazardous waste defined above.
	M-EXEMPT waste the following documentation is attached (check appropriate items):  MSDS Information Other (description)  RCRA Hazardous Waste Analysis Chain of Custody  the is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20
NMAC :	3.1 subpart 1403.C and D.
	riginal Signature): NMUQ U. UUM
	HSE & Regulatory Technician
Date:	10-3-03



San Juan Operations 5525 Hwy 64 Farmington, NM 87401

## FAX

Date:

**October 3, 2003** 

No. of pages including cover sheet: 7

To:

Donna Stoner

Company:

**CDPHE** 

Location:

Grand Junction, CO

Phone:

970-248-7168

Fax:

970-248-7198

From:

Monica D. Olson

Department: San Juan HSE

Phone:

505-599-3458

Fax:

505-599-3442

Remarks:

□ Urgent

X For your review

☐ Reply ASAP

☐ Please Comment

Ms. Stoner,

This is to inform you that we will be hauling stained soil from our Argenta Compressor Station located in La Plata County, CO to Envirotech Landfarm near Farmington, NM. We will be hauling approximately 30 cubic yards of soil that was stained by fluids around the compressor skids and used lube oil tanks.

I am including the TCLP analyses done by Envirotech in Farmington, NM and the NMOCD Certificate of Waste Status form.

Please let me know if you have any questions or comments. Thank you!

Monica D. Olson **HSE & Regulatory Technician** ConocoPhillips Company 5525 Hwy. 64 Farmington, NM 87401

Phone: 505-599-3458

# ENVIROTECH LABS

October 1, 2003

ConocoPhillips Monica Olson

5525 Hwy 64

Farmington, New Mexico 87401

Phone: (505) 599-3458 Fax: (505) 599-3442

Client No.: 96052-026

Dear Ms. Olson:

Enclosed are the analytical results for the samples collected from the location designated as "Argenta CPD Lower Yard". Two soil samples were collected by ConocoPhillips designated personnel on 09/22/03, and delivered to the Envirotech laboratory on 09/29/03 for TCLP List 8 Metals analysis.

The sampled were documented on Envirotech Chain of Custody Nos. 11367 and was assigned Laboratory Nos. 26743 (Comp Shed #1) and 26744 (Comp Shed #3) for tracking purposes.

The samples were analyzed on 09/30/03 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.

Christine M. Walters

Lab Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/ConoPhill.wpd



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-026-000
Sample ID:	Comp. Shed #1	Date Reported:	10-01-03
Laboratory Number:	26743	Date Sampled:	09-22-03
Chain of Custody:	11367	Date Received:	09-29 <b>-</b> 03
Sample Matrix:	TCLP Extract	Date Analyzed:	10-01-03
Preservative:	Cool	Date Extracted:	09-30-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.016	0.001	5.0
Barium	4.27	0.001	100
Cadmium	0.003	0.001	1.0
Chromium	0.008	0.001	5.0
Lead	0.011	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.009	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Argenta CPD Lower Yard.

Analyst

Review



10- 3-03;12:23PM;ConocoPhillips

# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-026-000
Sample ID:	Comp. Shed #2	Date Reported:	10-01-03
Laboratory Number:	26744	Date Sampled:	09-22-03
Chain of Custody:	11367	Date Received:	09-29-03
Sample Matrix:	TCLP Extract	Date Analyzed:	10-01-03
Preservative:	Cool	Date Extracted:	09-30-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

— ————————————————————————————————————		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.022	0.001	5.0
Barium	5.18	0.001	100
Cadmium	0.004	0.001	1.0
Chromium	0.007	0.001	5.0
Lead	0.005	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.013	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Argenta CPD Lower Yard.

Analyst

Reviev



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client: Sample ID: Laboratory Number: Sample Matrix:	N/A 10-01-TCM QA/QC 26743 TCLP Extract	Project #: Date Reported: Date Sampled: Date Received:	N/A 10-01-03 N/A N/A
Sample Matrix: Analysis Requested: Condition:	TCLP Extract TCLP Metals N/A	Date Received; Date Analyzed; Date Extracted;	10-01-03 09-30-03

Blank & Duplicate	(Alleranders of Chinese Service of Chinese Service of				Duplicate		Acceptance
Conc. (mg/L)							Range
Arsenic	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%
Barium	ND	ND	0.001	4.27	4.29	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%
Lead	ND	ND	0.001	0.011	0.011	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.009	0.009	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc.(mg/L)					Acceptance Range
Arsenic	0.500	0.016	0.515	99.8%	80% <b>-</b> 120%
Barium	0.500	4.27	4.76	99.8%	80% - 120%
Cadmium	0.500	0.003	0.503	100.0%	80% - 120%
Chromium	0.500	0.008	0.507	99.8%	80% - 120%
Lead	0.500	0.011	0.510	99.8%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.009	0.507	99.6%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 26743 - 26744.

Analyst

10- 3-03;12:23PM;ConocoPhllllps

# CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location						
ConscoPhillips	Argenta CPD	Lower [land	ANALY	ANALYSIS / PARAMETERS			
Sampler:	Client No.	1 1	ers		Ren	Remarks	
<u> </u>	20091	000-700-7000	o.ov o.ov o.ov o.ov o.ov				
Sample No./ Sample Sample Identification Date Time	Lab Number	Sample Matríx	Cor				
Corre Shed #1 9-22-03 4:00 mm	26743	1:33	>				
	i	Soil	>				
Relinquished by: (Signature)		Date Time Rece	Received by: (Signature)		Da	Date	Time
Manine D. Oban	5	3	Withen Moeters	iles.	0	Ğ	>h:h!
Relinquished by: (Signature)		Hece	<u>ē</u>			1	
Relinquished by: (Signature)		Rece	Received by: (Signature)				
		ENVROTECHING	CHIDC	Sa	Sample Receipt	seipt	
						>	N/A
		5796 U.S. Highway 64 Farmington, New Mexico 87401	nway 64 1exico 87401	Received Intact	ntact	70	
		(505) 632-0615	0615	Cool - Ice/Blue Ice	eol en	7	
						_	_

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 Martyne Kieling
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: Duke Energy Field Services			
Verbal Approval Received: Yes XI No 🗵 10/2/03 Denny Joust	5. Originating Site: Sims Mesa Compressor Station			
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech			
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico			
7. Location of Material (Street Address or ULSTR) NE/4, Sec 22, T30N, R7W, Rio Arriba County	Project #97065-007			
<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 of approved</li> </ul> </li> <li>All transporters must certify the wastes delivered are only those consigned for trans</li> </ul>	ecessary chemical analysis to PROVE the lassified hazardous by listing or testing will be			
BRIEF DESCRIPTION OF MATERIAL:	port			
Lube Oil contaminated soil generated when day tank was overfilled. New p  CWS & MSDS attached.  Estimated Volume ~80 cy Known Volume (to be entered by the operator at the end of	CONTROL OF SOLUTION OF SOLUTIO			
4 , 0 \ , , , ,				
SIGNATURE Nanagement Facility Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 09/30/03			
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615				
APPROVED BY: Martyn John TITLE: Environment	DATE: 10/6/2003  A GEOLOGIST DATE: 10/8/03			



# 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:  Environment Inc. Soil Percentiation Consists.
Duke Energy Field Services PO Box 69 Bloomfield, New Mexico	Envirotech Inc. Soil Remediation Facility Landfarm #2
87413	Hilltop, New Mexico
3. Originating Site (name): Sims Mesa Compressor Station	Location of the Waste (Street address &/or ULSTR): NE1/4 sec 22 T30n R7w Rio Arriba County
attach list of originating sites as appropriate	
4. Source and Description of Waste	
Lube oil day tank over filled, 80 yards of lube oil contamin	nated soil
I. Michael Lec	representative for :
Print Name	
_Duke Energy Field Services	do hereby certify that, and Environmental Protection Agency's July, 1988, regulatory ssification)
	EMPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or non-exempt non -h	nazardous waste defined above.
For NON-EXEMPT waste the following documentation is attached  X_MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	(check appropriate items): Other (description
This waste is in compliance with Regulated Levels of Naturally C NMAC 3.1 subpart 1403.C and D.	Decurring Radioactive Material (NORM) pursuant to 20
Name (Original Signature):	
Title:Field Supervisor	
Phone Number: 505-632-6463 Date: 9/30/03	

` .

```
605717-00 MOBIL PEGASUS 710 Pagasus 69
                    MATERIAL SAFETY DATA BULLETIN
 1. PRODUCT AND COMPANY IDENTIFICATION
PRODUCT NAME: MOBIL PEGASUS 710
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.ihasolutions.com/
2. COMPOSITION/INFORMATION ON INGREDIENTS
CHEMICAL NAMES AND SYNONYMS: SEVERE TREAT MIN. OILS & ADDITIVES
GLOBALLY REPORTABLE MSDS INGREDIENTS:
 Substance Name
                     Approx. Wt%
 ____
 CALCIUM PHENATE, SULFURIZED, 1-5
  HIGH OVERBASED
 SULFONIC ACIDS, PETROLEUM,
  CALCIUM SALTS (SYNTHETIC)
  (61789 - 86 - 4)
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): > 246(475) (ASTM D-92).

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

· 我们的是我们的,我们就是我们的一个人,我们也会会的一个人,我们就会这个人,我们就会这个人,我们就会是我们的,我们就会是我们的。

### 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 mafety 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.

**"你说!"""这么是你的现在分词,这些老我们会写出了!""你你的现在呢?"""这么是我就就这么?——"这么说明你的?"你是我们的有价"的问题。** 

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 alip

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): > 246(475) (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: 0.896

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 121.0

VISCOSITY AT 100 C, est:

POUR POINT C(F): < -15(6)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DRCOMPOSES 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.
- 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 coxicity 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 darcinogenic 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 bicavailability 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.

■ プリリリティザマビリアにこうのかのからとははなからううこうできませるなったくくくくうう。 (productory) アイファッファクリカカカカントにこれはは

### 14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT. RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO. IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

### 15. REGULATORY INFORMATION

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

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

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

ZINC (ELEMENTAL ANALYSIS) (0.03%) 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=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 2
 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.

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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<u>District I</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 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

Form C-138

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: □ Non-Exempt: □	4. Generator: Coastal Chemical, LLC
Verbal Approval Received: Yes \( \sum \) No \( \sum \)	5. Originating Site: Tiffany Glycol Plant
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: Colorado to New Mexico
7. Location of Material (Street Address or ULSTR) 3021 CR 328, Ignacio	Project #95007-013
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied be one certificate per job.</li> <li>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 capproved</li> </ul>	necessary chemical analysis to PROVE the classified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Spent glycol contaminated soil from cleaning out glycol ponds.	18 19 20 21 22 23 20 21 22 20 21 22 20 21 22 20 21 22 20 21 22 20 21 22 20 21 22 20 21 22 20 20 21 22 20 20 20 20 20 20 20 20 20 20 20 20
CWS and letter to CDPHE attached.	Control of the second of the s
Estimated Volume 80 cy Known Volume (to be entered by the operator at the end of	of the haul)cy
SIGNATURE Andrea R. Jackson TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 09/10/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	5
APPROVED BY: Marky 2 24 TITLE: Environ punt	DATE: 9/30/03



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Coversor Joanna Prukop Cablact Scaretary

Lori Wrotenbery Director Oll Conservation Division

### CERTIFICATE OF WASTE STATUS

	1. Generator Name and Address  (20,6.4)	2. Destination Name:  Envirotech Inc. Soil Remediation Facility
	3520 Veteron Memorial Abbuille, LA 70510	
12	3. Originating Site (name):    Jan   Jan   Dan   Dan   Alan   Ala	Location of the Waste (Street address & or ULSTR): 3021 Courty Rd 328  Ignacio, CU 81137,
	4. Source and Description of Waste  Spent Glycol from	Gas Dehy dration.
1,	hanle H. Jours  Print Name  Oct Chamical 10	representative for:
	ation and Recovery Act (RCRA) and Environmental Protection waste is: (Check appropriate classification)	do hereby certify that, according to the Resource ion Agency's July, 1988, regulatory determination, the above
,	analysis o	MPT oilfield waste which is non-hazardous by characteristic or by product identification
-		
	RCRA Hazardous Waste Analysis Chain of Custody	
	<del></del>	`
NMAC	Chain of Custody  Ste is in compliance with Regulated Levels of Naturally C	`
Name (	Chain of Custody  Ste Is in compliance with Regulated Levels of Naturally C  3.1 subpart 1403.C and D.	`

CDPHE Donna Stoner 222 South 6<sup>th</sup> St. Rm 232 Grand Junction, CO 81501

Dear Ms. Stoner,

The purpose of this letter is to inform you Coastal Chemical is using Envirotech, inc. from Farmington, NM to clean several tanks at our Tiffany location. The waste generated from the cleaning process will be land formed at the Envirotech Inc. Soil Remediation Facility in Hilltop, NM.

Please contact me with any questions.

Sincerely,

Charles H. Toups, CHMM

Director of HS&E

Direct line 337-272-0132 Mobil 337-298-1928

P. O. Box 81577 - Lafayette, La. 70598 - Phone: 337.261.0796 Fax: 337.261.0797

martyne

District 1 State of New Mexico

1625 N. French Dr., Hobbs, NM 88240

District II Energy Minerals and Natural Resources

1301 W. Grand Avenue, Artesia, NM 88210

Oil Conservation Division

Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

District III 000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
DIVISION
Santa Fe, NM 87505
Santa Fe, NM 87505

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🖂	4. Generator: Conoco Phillips
Verbal Approval Received: Yes No No No	5. Originating Site: AXI Apache K #2A
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "P" Sec 4, T26N, R5W, Rio Arriba County	Project #96052-043
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste capproved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	50 E 26 27 28 20
Soil stained with produced water and used compressor oil.  CWS and Analytical attached.	See Mo
Estimated Volume 32 cy Known Volume (to be entered by the operator at the end of	of the haul)cy
SIGNATURE Jundle Recility Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 09/29/03
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	<u>i</u>
(This space for State Use)	
APPROVED BY: Deny tout TITLE: Enviro/E	ngv DATE: 9/30/05
APPROVED BY: Thy Thy Title: Environ un	Lel 60009154 DATE: 10-1-03

i;505 599 3442



## 96052-043 NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor

Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery
Director
Oil Conservation Division

### CERTIFICATE OF WASTE STATUS

	1. Generator Name and Address	2. Destination Name:
	ConocoPhillips Company	Envirotech Inc. Soil Remediation Facility
	5525 Highway 64	Landfarm #2
•	Farmington, NM 87401	Hilltop, New Mexico
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
,	AXI Apache K #ZA	(**************************************
	Unit P. Sec. 4, TZGN, ROW	
	AXI Apache K #ZA Unit P, Sec. 4, TZLN, ROW Rio Arriba County, NM	
	attach list of originating sites as appropriate	
	4. Source and Description of Waste	
	32 cy stained soil (w/ use	d compressor oil)
	JZ (19) 3/10/100 00/1 (10) 00/1	ar production
		•
	·	
ì	Monica D. Olson	representative for :
٠,	Print Name	representative for .
	ConocoPhillips Company	do hereby certify that, according to the Resource
Conserv	vation and Recovery Act (RCRA) and Environmental Protection	Agency's July, 1988, regulatory determination, the above
	ed waste is: (Check appropriate classification)	÷ • • • • • • • • • • • • • • • • • • •
EX	EMPT oilfield wasteNON-EXEMP	T oilfield waste which is non-hazardous by characteristic
	analysis or b	y product identification
	de la la distribuição de la compansa	
ind that	nothing has been added to the exempt or non-exempt non -haza	ardous waste defined above.
or NO	N-EXEMPT waste the following documentation is attached (che	
		description
	RCRA Hazardous Waste Analysis Chain of Custody	•
	Chain of Custody	
7.	A Comment of National Loyals of Nationally Occur	ruing Podice of the M. Andre (NODAG)
	ste is in compliance with Regulated Levels of Naturally Occu	rring Radioactive Material (NORM) pursuant to 20
	3.1 subpart 1403.C and D.	
1 (6	Original Signature): MMUQ O. NAM	
******	HSE & Regulation Tuchnician	
me:	HSE & legulatory Technician 9-29-03	
No for	9-29-03	
ate:	1 1 1 00	



### TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-026-000
Sample ID:	Dump Line Leak	Date Reported:	09-23-03
Laboratory Number:	26675	Date Sampled:	09-17-03
Chain of Custody:	11344	Date Received:	09-22-03
Sample Matrix:	Soil	Date Analyzed:	09-23-03
Preservative:	Cool	Date Digested:	09-22-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.004	0.001	5.0
Barium	6.54	0.001	100
Cadmium	0.002	0.001	1.0
Chromium	0.003	0.001	5.0
Lead	0.005	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.003	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:

AXI Apache K-2A.

Δnalvet

Review



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-23-TM QA/QC	Date Reported:	09-23-03
Laboratory Number:	26675	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	09-23-03
Condition:	N/A	Date Digested:	09-22-03

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Barium	ND	ND	0.001	6.54	6.56	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Lead	ND	ND	0.001	0.005	0.005	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spike	Sampl	THE LOS CONTRACTORS		Acceptance
Conc. (mg/Kg)	Added		Sample	Recovery	Range
Arsenic	0.500	0.004	0.503	99.8%	80% - 120%
Barium	0.500	6.54	7.03	99.9%	80% - 120%
Cadmium	0.500	0.002	0.501	99.8%	80% - 120%
Chromium	0.500	0.003	0.503	100.0%	80% - 120%
Lead	0.500	0.005	0.504	99.8%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.003	0.502	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	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 26675.

Analyst

# CHAIN OF CUSTODY RECORD

Client / Project Name		Project Location	Apoche K-24			ANALYSIS / PARAMETERS	RAMETERS		
Consideration of the control of the		1		-					
Sampler:		Client No.		S.				Remarks	
A. Gomes		94052	2-020-000		<u> </u>				
Sample No./ Sample Identification Date	Sample	Lab Number	Sample Matrix	JuoD	¢ee.				
Dump Line Leak 9/17/03	1	36675	3.55	_					
-									
Relinquished by: (Signature)		0.12	Date Time Recei	Received by: (Signature)	ignature)	Wester		Date Til	Time /0.'24
Bethnquished by: (Signature)			Recei	Received by: (Signature)	ignature) /				
Relinquished by: (Signature)	·		Recei	Received by: (Signature)	ignature)		·		
To: Monica			ENVIROTECH INC	R	2		Samp	Sample Receipt	
			いれたないではないできないので、本語をおかれていましていた。	\$ 1000 A				Z ≻	N/A
			5796 U.S. Highway 64 Farmington, New Mexico 87401	hway 6∠ ∕lexico 8	ا 7401		Received Intact	۵	-
			(505) 632-0615	0615			Cool - Ice/Blue Ice	lce /	



San Juan Operations 5525 Hwy 64 Farmington, NM 87401

Monica D. Olson

# FAX

Date
------

To:

Thank you!

Monica D. Olson 505-599-3458

**September 29, 2003** 

No. of pages including cover sheet: 2

Lany

Company:	Envirotech	Department:	San Juan HSE
Location:	Farmington, NM	Phone:	505-599-3458
Phone:	505-632-0615	Fax:	505-599-3442
Fax:	505-632-1865		
Remarks:	☐ Urgent X For your review	□ Reply	ASAP   □ Please Comment
Lany,			
Apache K #2	e attached Certificate of Waste Statu A wellsite. The soil was stained with est has been completed by your lab.		

Please forward to Santa Fe and let me know when we have approval to haul this to your landfarm.

From:

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 875055

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator Conoco Phillips
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Nell Hall #1
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "A" Sec 17, T31N, R12W, San Juan County	Project #96052-04 <b>2</b>
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 c approved</li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	
1 BBL of stained soil of unknown origin.	
CWS and Analytical attached.	
*TCLP, RCI, and BTEX ran per Martyne.	
•	
Estimated Volume <1 cy Known Volume (to be entered by the operator at the end of	f the haul)cy
SIGNATURE Saving Resident State Management Fability Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 08/15/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	081803
(This space for State Use)	
APPROVED BY I POMIT TOURS TITLE FOR ME	Engr DATE: 8/15/03
APPROVED BY: May 984. TITLE: Environment	he bedagist DATE: 8/18/03



# 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:				
	Phillips Company	Envirotech Inc. Soil Remediation Facility				
	ighway 64	Landfarm #2				
<u> </u>	gton, NM 87401	Hilltop, New Mexico				
	,	F, 1				
Noll !	ng Site (name): Hall #1 APT #30-045-	Location of the Waste (Street address &/or ULSTR):				
Writ	A, Sec. 17, T3IN, RIZW					
San.	Juan County, New Mixico					
4. Source as						
	BBL Stained soil (<1 cy om unknown origin					
- Gr	em unknown origin					
1 N	lonica D. Olson	representative for :				
->	Print Name					
0	ones-Phillips Company					
	onocoPhillips Company	do hereby certify that, according to the Resource				
		n Agency's July, 1988, regulatory determination, the above				
described waste is: (C)	heck appropriate classification)					
EXEMPT oilfiel		PT oilfield waste which is non-hazardous by characteristic by product identification				
and that nothing has be	een added to the exempt or non-exempt non -ha	zardous waste defined above.				
D NON EXHADE	vaste the following documentation is attached (cl	hack appropriate items)				
MSDS Inf	- / / / / / / / / / / / / / / / / / / /	er (description				
		TEX				
Chain of C		· - •				
<del></del>	·					
This waste is in compl	iance with Regulated Levels of Naturally Occ	curring Radioactive Material (NORM) pursuant to 20				
NMAC 3.1 subpart 14	03.C and D.					
Name (Original Signa	ture): MONIGE Q. OLAON					
Title: HSE &	Regulatory Technician					
Date:	0 10-00					



# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

ConocoPhillips	Project #:	96052-042
1 - Nell Hall	Date Reported:	08-11-03
26288	Date Sampled:	08-08-03
11231	Date Received:	08-11-03
Solid	Date Analyzed:	08-11-03
Cool	Date Extracted:	08-11-03
Cool & Intact	Analysis Requested:	BTEX
	26288 11231 Solid Cool	1 - Nell Hall Date Reported: 26288 Date Sampled: 11231 Date Received: Solid Date Analyzed: Cool Date Extracted:

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	. 1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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:

Nell Hall #1 M Sec7 T30N R11W

Unknown Drum.

Analyst C. Carl



### EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	!	Project #:		N/A	
Sample ID:	08-11-BTEX QA/QC		Date Reported:		08-11-03	
Laboratory Number:	26285	26285		N	I/A	
Sample Matrix:	Soil	1	Date Received:		N/A	
Preservative:	N/A		Date Analyzed:		08-11-03	
Condition:	N/A	,	Analysis:	E	BTEX	
Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: Accept, Rang	%Diff. je 0 - 15%	Blank Conc	Detect. Limit	
And the control of th	F-Cal RF:				Germania de la constitución de la c	
And the control of th	J-Cal RF: 3.7241E-002				Germania de la constitución de la c	
Detection Limits (ug/L)		: Accept. Rang	je 0 - 15%	Conc	Limit	
Detection Limits (ug/L) Benzene	3.7241E-002	Accept. Rang 3.7353E-002	ge 0 - 15%	Conc	Limit: 0.2	
Detection Limits (ug/L)  Benzene Toluene	3.7241E-002 4.4375E-002	Accept. Ranç 3.7353E-002 4.4464E-002	0.3% 0.2%	ND ND	0.2 0.2	

Duplicate Conc. (ug/Kg) Sample Duplicate %Diff. Accept Range Detect. Limit						
Benzene	165	168	2.2%	0 - 30%	1.8	
Toluene	806	790	2.0%	0 - 30%	1.7	
Ethylbenzene	319	313	2.0%	0 - 30%	1.5	
p,m-Xylene	1,200	1,230	2.5%	0 - 30%	2.2	
o-Xylene	601	615	2.2%	0 - 30%	1.0	

Spike Conc. (ug/Kg)	Sample Amo	ount Spiked Spi	ked Sample	% Recovery	Accept Range
Benzene	165	50.0	214	99.8%	39 - 150
Toluene	806	50.0	854	99.8%	46 - 148
Ethylbenzene	319	50.0	369	99.8%	32 - 160
p,m-Xylene	1,200	100	1,290	99.2%	46 - 148
o-Xylene	601	50.0	650	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for samples 26285, 26288.

Analyst



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-042
Sample ID:	1 - Nell Hall	Date Reported:	08-12-03
Laboratory Number:	26288	Date Sampled:	08-08-03
Chain of Custody:	11231	Date Received:	08-11-03
Sample Matrix:	TCLP Extract	Date Analyzed:	08-12-03
Preservative:	Cool	Date Extracted:	08-11-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

	Concentration	Det. Limit	Regulatory Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	ND .	0.001	5.0
Barium	0.714	0.001	100
Cadmium	ND	0.001	1.0
Chromium	ND	0.001	5.0
Lead	ND	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 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Nell Hall #1 M Sec 7 T30N R11W Unknown Drum.

Review



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Olf = 14							
Client:		N/A		Project #:			I/A
Sample ID:		08-12-TCM	QA/QC	Date Repo		0	8-12 <b>-</b> 03
Laboratory Number:		26288		Date Samp	oled:	N	I/A
Sample Matrix:		TCLP Extrac	et	Date Rece	ived:	N	I/A
Analysis Requested:		TCLP Metals	S	Date Analy	/zed:	0	8-12 <b>-</b> 03
Condition:		N/A		Date Extra	cted:	0	8-11-03
Blank & Duplicate	Instrument	Method	Detection	Sample	Duplicate	%	Acceptance
Conc. (mg/L)	Blank	Blank	Limit	IN LUZE		Difference	Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	0.714	0.713	0.1%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	ND	ND	0.0%	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	ND	ND	0.0%	0% - 30%
Spike		Spike	Sample	Spiked.	Percent		Acceptance
Conc. (mg/L)		Added	Sample	Sample			Acceptance Range
The state with 1 and the state of the state	LISTS ALREADY	the collection of the conference of	- 200 m	\$100 to	,	Carried () Takin wi watta m	Sustain to the second s
Arsenic		0.500	ND	0.499	99.8%		80% - 120%
Barium		0.500	0.714	1.20	98.8%		80% - 120%
Cadmium		0.500	ND	0.499	99.8%		80% - 120%
Chromium		0.500	ND	0.498	99.6%		80% - 120%
Lead		0.500	ND	0.498	99.6%		80% - 120%
Mercury		0.050	ND	0.050	100.0%		80% - 120%
Selenium		0.500	ND	0.498	99.6%		80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Meth

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

0.499

99.8%

80% - 120%

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

0.500

ND

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 26288.

Analyst

Silver



### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client:	ConocoPhillips	Project #:	96052-042
Sample ID:	1 - Nell Hall	Date Reported:	08-12-03
Lab ID#:	26288	Date Sampled:	08-08-03
Sample Matrix:	Solid	Date Received:	08-11-03
Preservative:	Cool	Date Analyzed:	08-11-03
Condition:	Cool and Intact	Chain of Custody:	11231

**Parameter** Result

**IGNITABILITY:** Negative

**CORROSIVITY:** Negative pH = 8.77

REACTIVITY: Negative

RCRA Hazardous Waste Criteria

Parameter

Reference:

**IGNITABILITY:** 

Hazardous Waste Criterion

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)

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

Nell Hall #1 M Sec 7 T30N R11W Comments: Unknown Drum.

Analyst

# CHAIN OF CUSTODY RECORD

Client / Project Name  Color OCO PHILLIPS	5	Project Location  NELL HALL#1	1 M SETT30ARIIW	3"			ANALYSIS / PARAMETERS	AMETERS	
Sampler:		Client No.				571		Ä	Remarks
MORRIS D. YOUNG		240-25096	240	to .o		d .			
Sample No./ Sample Identification Date	ole Sample e Time	Lab Number	Sample Matrix	. 1	1000 Coni	12L	₽ <i>\</i>		
1- NELL 14ALL 08-08-03	-03 11:32	36388	Solid	_	>	7	7	UNKNOWN DRUM	DRUM.
Relinquished by: (Signature)			Date Time Rec	eived by	Received by: (Signature)	ture)	-		Date Time
moni D. you	7	0	08-11-03 8:20	$\gtrsim$	{		( )	۸-۶	8-11-03 8:20
Relinquished by: (Signature)				eived by	Received by: (Signature)	ture)			
Relinquished by: (Signature)			Rec	eived by	Received by: (Signature)	ture)			
			FOVIROTECH INC.	<u>さ</u>	1	<u>0</u>		Sample Receipt	Receipt
									> N N/A
			5796 U.S. Highway 64 Farmington, New Mexico 87401	ghway Mexic	, 64 0 874	)1		Received Intact	\
			(505) 632-0615	-0615	· ) )	-		Cool - Ice/Blue Ice	7

## RECEIVED

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

State of New Mexico Energy Minerals and Natural Resources

AUG 0 5 2003

Form C-138 Revised March 17, 1999

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

OIL CONSTRUCTION DIVISION

Submit Original Plus 1 Copy to Appropriate District Office

Saina Fe, INVI 67505	
REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: 1	4. Generator: Compressor Systems Inc.
Verbal Approval Received: Yes No 🗵 8/01/03	5. Originating Site: NEBU 485 Unit 410192
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Paul & Sons
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "A" Sec 3, T30N, R7W, Rio Arriba County	Project #01038-013
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied be one certificate per job.</li> <li>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 approved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for tran	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Used engine oil contaminated soil that was generated when oil ran over the	e drip lip of skid.
CWS & Analytical attached.	
Dates on C-138 and CWS differ because analytical was not copied to my office when an	alysis was complete.
Estimated Volumecy Known Volume (to be entered by the operator at the	end of the haul)cy
SIGNATURE Sandrea R. October TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 07/30/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	5
APPROVED BY: May My TITLE: Environment	/Engr DATE: 08/01/03 Geologist DATE: 08/5/03



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secremy

Lori Wrotenbery
Director
Oil Conservation Division

### CERTIFICATE OF WASTE STATUS

r <del></del> -		
	Generator Name and Address	2. Destination Name:
	OMPRESSOR SYSTEMS INC.	Envirotech Inc. Soil Remediation Facility
	795 U3 HUY 64	Landfarm #2
En	gemention win 87401	Hilltop, New Mexico
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
n	VIBU 485 UNIT 410192	"A" SECT 3 TOWN 30N RANGE DW
atta	ach list of originating sites as appropriate	
4.	Source and Description of Waste CMC VRO.	N HOAX Ors/LIP OF SKID
	ONTAMENATENC DEAT ON REA	
	2	
I, <i>Phil</i>	Print Name	ropresentative for ;
	Print Name	
Comer	ISSON SYSTEMS INC	do hereby certify that, according to the Resource
Conservation described with	n and Recovery Act (RCRA) and Environmental aste is: (Check appropriate classification)	do hereby certify that, according to the Resource Protection Agency's July, 1988, regulatory determination, the above
exem	PT oilfield waste XNO	N-EXEMPT oilfield waste which is non-hazardous by characteristic nalysis or by product identification
ind that not	hing has been added to the exempt or non-exemp	
<u> </u>	XEMPT waste the following documentation is a MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ntached (check appropriate items):Other (description
his waste i	s in compliance with Regulated Levels of Nature Subpart 1403.C and D.	arally Occurring Radioactive Material (NORM) pursuant to 20
lame (Orlg	inal Signature):	
itle: <u>Le L</u>	AL SERVEGE TECH	
hone Numb	per: 505-632-550/ EXT /	25
ate: 7	12/03	<del>Victorial</del>



### TRACE METAL ANALYSIS

Client:	CSI	Project #:	01038-001
Sample ID:	#1	Date Reported:	07-14-03
Laboratory Number:	26061	Date Sampled:	07-10-03
Chain of Custody:	<b>11</b> 105	Date Received:	07-11-03
Sample Matrix:	Soil	Date Analyzed:	07-14-03
Preservative:	Cool	Date Digested:	07-11-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)	
Arsenic	ND	0.001	5.0	
Barium	6.52	0.001	100	
Cadmium	ND	0.001	1.0	
Chromium	ND	0.001	5.0	
Lead	ND	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:

**NEBU 485.** 

Ánaivst

Review McOctes



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:		QA/QC		Project #:			N/A
Sample ID:		07-14-TM	QA/QC	Date Repo			07-14-03
Laboratory Number:		26061		Date Samp	oled:		N/A
Sample Matrix:		Soil		Date Recei	ived:		N/A
Analysis Requested:		Total RCRA	A Metals	Date Analy	zed:		07-14-03
Condition:		N/A		Date Diges	sted:		07-11-03
Blank & Duplicate	Instrument	Method	Detection	Sample	PROPERTY AND ADDRESS OF THE PARTY OF THE PAR	2000 ( - 11 <b>07</b> - 2-25 c	Acceptance
Conc. (mg/Kg)	Blank (mg/L)		Limit	Sample	Duplicate	% Diff.	Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	6.52	6.50	0.3%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	ND	ND	0.0%	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	ND	ND	0.0%	0% - 30%
and the same	Anna elementario di	7.5	Market and a strong property of the strong and the strong property of the strong property o	CONTRACTOR OF THE PROPERTY OF	The region of the regions for again property and	· week to be given to	
Spike		Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/Kg)		Added	gar State Lacks Americans	<u>S</u> ample	Recovery	A The	Range
Arsenic		0.500	ND	0.498	99.6%		80% - 120%
Barium		0.500	6.52	7.01	99.9%		80% - 120%
Cadmium		<b>0</b> .500	ND	0.499	99.8%		80% - 120%
Chromium		0.500	ND	0.50	100.0%		80% - 120%
Lead		<b>0</b> .500	ND	0.50	99.8%		80% - 120%
Mercury		<b>0</b> .050	ND	0.050	100.0%		
Selenium		<b>0</b> .030 <b>0</b> .500					80% - 120%
			ND	0.498	99.6%		80% - 120%
Silver		<b>0</b> .500	ND	0.499	99.8%		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 26061.

Analyst

# CHAIN OF CUSTODY RECORD

Project Name				
1.0   Call   Sample   Sample	Project Name	$\rightarrow$	ANALYSIS / PAI	AAMETERS
10   5:00   2-6.06   Soul   1   1   1   1   1   1   1   1   1	Jio Pall	28-001		Remarks
10   5:00   26.06   Soul	Sample	Sample Lab Number Matrix		
Date   Time   Received by: (Signature)	01/4		>	
Plate   Time   Received by: (Signature)				
Environment of Farmington, New Mexico 87401 (505) 632-0615				
Time   Received by: (Signature)   Filt 9:30   Filt 9				
Plate   Time   Received by: (Signature)   Plate   Time   Received by: (Signature)   Plate   Time   Received by: (Signature)   Received by: (Signature)   Plate   Pla				
Time   Received by: (Signature)   Figure   Faceived by: (Signature)   Faceived by: (Signature)   Faceived by: (Signature)   Faceived by: (Signature)   Farmington, New Mexico 87401   Cool - Ice/Blue Ice   Cool - Ice/Blu				
Time   Received by: (Signature)   Time   T				
Pate   Time   Received by: (Signature)				
ENVIROTECHIOC Signature)  Farmington, New Mexico 87401  Cool - Ice/Blue Ice  Time Received by: (Signature)  Received by: (Signature)  Sample Receipt  Sample Receipt  Y N  5796 U.S. Highway 64  Farmington, New Mexico 87401  Cool - Ice/Blue Ice				-
Environ, New Mexico 87401  Farmington, New Mexico 87401  Cool - Ice/Blue Ice  Cool - Ice/Blue Ice	highed by: (Signature)	te Time	oloy: (Signature)	11/03 9:52
Environment Received by: (Signature)  Sample Receipt  Sample Receipt  Sample Receipt  Y N  Farmington, New Mexico 87401 (505) 632-0615  Cool - Ice/Blue Ice	uished by: (Signature)	Receive	d by: (Signature)	
Sample Receipt  Received Intact  Cool - Ice/Blue Ice	uished by: (Signature)	Receive	d by: (Signature)	
Received Intact Cool - Ice/Blue Ice		FOVIROTEC	HIC	Sample Receipt
			とうない 大田 大学の	z
		5796 U.S. High	vay 64	Received Intact
		rallilligion, lyew lyis (505) 632-06	315	Cool - Ice/Blue Ice

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

TYPE OR PRINT NAME: Landrea Jackson

### 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	T SOLID WASTE
1. RCRA Exempt: □ Non-Exempt: □	4. Generator: Halliburton Energy Services
Verbal Approval Received: Yes 🗌 No 🖂	5. Originating Site: Wash Bay
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 4189 E. Main Street, Farmington	Project #92132-001
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied be one certificate per job.</li> <li>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 capproved</li> <li>All transporters must certify the wastes delivered are only those consigned for transporters.</li> </ul>	necessary chemical analysis to PROVE the classified hazardous by listing or testing will be
BRIEF DESCRIPTION OF MATERIAL:	sport.
Wash bay grit from 2 bays that have been dried in a drying bed.	
CWS and TCLP dated 7/23/03 attached.	
Estimated Volumecy Known Volume (to be entered by the operator at the e	end of the haul)cy
SIGNATURE Handra R. Jackson TITLE: Environmental Waste Management Fasility Authorized Agent	Administrative Assistant DATE: 07/30/03

APPROVED BY: Marty 2015.

TITLE: Environmental Geologist DATE: 8/05/03

TELEPHONE NO: (505) 632-0615



# 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:
	Envirotech Inc. Soil Remediation Facility
Halliburton Energy Services 4109 Emain ST	Landfarm #2
7109 E Main 87	Hilltop, New Mexico
Farmington NM 87402  3. Originating Site (name):	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
tall he to a	Helliburton
4109 Emain ST	4109 E. MAIN 8t. PARMINGTON, NM 87402.
attach list of originating sites as appropriate	PREMINE ON JUIN STYCE.
4. Source and Description of Waste	December 14 A Day W
4. Source and Description of Waste WASH BAY GLAT PROM 2 BAYS THAT	HAVE BEEN DETED IN A DRYWH
30.	
I, Mr/r DKrause III Print Name	representative for :
	•
HALLBURGON ENERGY SERVICES	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	PT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or non-exempt non -ha	zardous waste defined above.
For NON-EXEMPT waste the following documentation is attached (c	heck appropriate items);
	er (description
RCRA Hazardous Waste Analysis Chain of Custody	
Citally 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.	, , , , , , , , , , , , , , , , , , , ,
$\mathcal{O}(1)$	
Name (Original Signature):	
Title: Material Control Supu.	
Phone Number: <u>503-374-3551</u>	
Date: 7-29-03	



## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Halliburton Project #: 92132-001 07-23-03 Sample ID: 2003 Wash Bay Sludge Date Reported: Lab ID#: 26147 Date Sampled: 07-23-03 Sample Matrix: Soil Date Received: 07-23-03 Preservative: Cool Date Analyzed: 07-23-03 Condition: Cool and Intact Chain of Custody: 11169

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 6.78

**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 $^{\circ}$  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:

Halliburton.

Analyst

Review



### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Extracted:	07-23-03
Preservative:	Cool	Date Analyzed:	07-25-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0182	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0073	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Halliburton.

Analyst C. Oyler

Misterie m Walters
Review



### EPA METHOD 8040 PHENOLS

	I to Illian sat a sa	Desir of #	00400 004
Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Extracted:	07-23-03
Preservative:	Cool	Date Analyzed:	07-25-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachiorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery		
	2-Fluorophenol	99%		
	2,4,6-Tribromophenol	99%		

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Halliburton.

Analyst



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Extracted:	07-23-03
Preservative:	Cool	Date Analyzed:	07-25-03
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	•	

2-fluorobiphenyl

99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Halliburton.

Analyst C. Offin

Misterie n Walters
Review



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton	Project #:	92132-001
Sample ID:	2003 Wash Bay Sludge	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	07-23-03
Chain of Custody:	11169	Date Received:	07-23-03
Sample Matrix:	TCLP Extract	Date Analyzed:	07-25-03
Preservative:	Cool	Date Extracted:	07-23-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
··			
Arsenic	0.008	0.001	5.0
Barium	0.964	0.001	100
Cadmium	0.002	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.003	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Halliburton.

Analyst

/ Mustine of Walter Review



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-25-03
Laboratory Number:	07-25-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-25-03
Condition:	N/A	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
March Old Land Ja	ND	0.0004	0.0
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Cylen

Misterie Muboles
Review



### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-25-03
Laboratory Number:	07-23-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-25-03
Condition:	N/A	Date Extracted:	07-23-03
		Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinul Chlorida	ND	0.0001	0.2
Vinyl Chloride			0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	. ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	99%
	1,4-difluorobenzene	98%
	4-bromochlorobenzene	98%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Alexander C. Cylencan

Mistine of Watles
Review



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-25-03
Condition:	N/A	Date Extracted:	07-23-03

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0182	0.0181	0.0001	0.5%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0073	0.0073	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 26147.

Analyst

/ Mistine M Wastles



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-25-03
Condition:	N/A	Date Extracted:	07-23-03

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99.0%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	98.8%	43-143
2-Butanone (MEK)	0.0182	0.050	0.0680	0.0001	99.7%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100.0%	49-133
Carbon Tetrachloride	ND	0.050	0.0495	0.0001	99.0%	43-143
Benzene	0.0073	0.050	0.0571	0.0001	99.7%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98.0%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99.0%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99.0%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99.0%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99.0%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 26147.

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Amstine Mulaters
Review



### EPA METHOD 8040 PHENOLS

### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-25-03
Laboratory Number:	07-25-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-25-03
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-fluorophenol	98 %	
	2,4,6-tribromophenol	99 %	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Q

Alistine m Wasters
Review



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-25-03
Laboratory Number:	07 <b>-</b> 23-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-23-03
Condition:	Cool & Intact	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

	Concentration	Det. Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	99%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Alem T. Cylen

Review Misters



## **EPA METHOD 8040 PHENOLS Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-23-03
Condition:	Cool & Intact	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-25-03
Laboratory Number:	05 <b>-</b> 25-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

### 2-fluorobiphenyl

101%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst

Mistine M Walters
Review



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-25-03
Laboratory Number:	07-23-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-23-03
Condition:	Cool and Intact	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	l
			_

### 2-fluorobiphenyl

96%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

nalvst

Review Multes



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	07-23-03
Condition:	N/A	Date Analyzed:	07-25-03
		Analysis Requested:	TCLP

Downwater	Sample Result	Duplicate Result	Percent	Det. Limit
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

### 8090 Compounds

30%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26147.

Analyst C. Qui

Allotine m Wallers
Review



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	N/A	Project #:	N/A
Sample ID:	07-25-TCM QA/QC	Date Reported:	07-25-03
Laboratory Number:	26147	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	07-25-03
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate	Instrument	Method	Detection	Sample	Duplicate	ASSET 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Acceptance
Conc. (mg/L)	Blank	Blank	Limit			Difference	Range
Arsenic	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%
Barium	ND	ND	0.001	0.964	0.961	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Lead	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spike	Sample	e Spiked	Percent	Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.500	0.008	0.507	99.8%	80% - 120%
Barium	0.500	0.964	1.46	99.7%	80% - 120%
Cadmium	0.500	0.002	0.502	100.0%	80% - 120%
Chromium	0.500	0.001	0.500	99.8%	80% - 120%
Lead	0.500	0.001	0.500	99.8%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.003	0.502	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 26147.

Analyst

Review

# CHAIN OF CUSTODY RECORD

ARAMETERS	Remarks								1-23:03 12-1		Sample Receipt	Z >		Cool - Ice/Blue Ice
ANALYSIS / PARAMETERS	o. of ainers		1					Received by: (Signature)	Received by: (Signature)	Received by: (Signature)	EN ROTECH INC.	いろいのとのできる かんかい	5796 U.S. Highway 64 Farmington, New Mexico 87401	(505) 632-0615
Project Location 92/33 - 00/	Client No.		5 26147 soil					Date Time 7.1 ? ~ 3 . 2 . 00	1		EN RO		5796 U.s Farmington, N	(502)
Client / Project Name  Hall, butan	Sampler. Moyan Killeon	Sample No./ Sample Sample Identification Date Time	Wash 8 #4 5/4/95 7-2703 11:55					Helinquished by: (Signature)	(Signature)	Relinquished by: (Signature)				

District I 1625 N. French Dr., Hobbs, NM 8 2002 CEIVED State of New Mexico Energy Minerals and Natural Resources

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

W 1000 Rio Brazos Road, Aztec, NM 87410 JUL 2 8 2003 District IV

Oil Conservation Division

District IV 1220 S. St. Francis Dr., Santa Fe, 101127560NSERVATION Santa Fe, NM 87505 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	T SOLID WASTE				
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Conoco Phillips				
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Lower Yard				
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA				
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico				
7. Location of Material (Street Address or ULSTR) 5525 Highway 64, Farmington, NM 87401	Project #96052-039				
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 material is not-hazardous and the Generator's certification of origin. No waste capproved</li> </ul>	ecessary chemical analysis to PROVE the				
All transporters must certify the wastes delivered are only those consigned for trans	sport.				
BRIEF DESCRIPTION OF MATERIAL:	RECEIVED				
Soil stained with spilled oil from hydraulic pumps.  CWS and analytical attached.	JUL 3 1 2003  Environmental Bureau  Oil Conservation Division				
*CWS is dated 7/11/03 but was originally classified as exempt; analysis was not received until July 23, 2003.  Estimated Volume 5.5 cy Known Volume (to be entered by the operator at the end of the haul)cy					
SIGNATURE Sandragement Racility Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 07/23/03				
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505) 632-0615</u>					

1. Generator Name and Address



## 96052-039 NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

2. Destination Name:

BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

### CERTIFICATE OF WASTE STATUS

ConocoPhillips Company 5525 Highway 64 Farmington, NM 87401	Envirotech Inc. Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):  Lower Yard - Conocophillips  5525 Hay. UY  Farmington, NM 87401  attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Soil Stained w/ Spilled oil from 5/2 Cubic yards	n hydraulic pumps
I, MONICA D. O SON Print Name	representative for:
ConocoPhillips Company	do hereby certify that, according to the Resource
Conservation and Recovery Act (RCRA) and Environmental Protection described waste is: (Check appropriate classification)	Agency's July, 1988, regulatory determination, the above
EXEMPT oilfield wasteNON-EXEM analysis or	PT oilfield waste which is non-hazardous by characteristic by 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	er (description
This waste is in compliance with Regulated Levels of Naturally Occ NMAC 3.1 subpart 1403.C and D.	surring Radioactive Material (NORM) pursuant to 20
Name (Original Signature): MMUQ Q. OLAN	
ritle: HSF & Regulatory Technician	
Date: 7-11-63	



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-026	
Sample ID:	Lower Yard Pumps	Date Reported:	07-22-03	
Laboratory Number:	26128	Date Sampled:	07-17-03	
Chain of Custody:	11161	Date Received:	07-21-03	
Sample Matrix:	TCLP Extract	Date Analyzed:	07-22-03	
Preservative:	Cool	Date Extracted:	07-21-03	
Condition:	Cool & Intact	Analysis Needed:	TCLP metals	
		Det.	Regulatory	
	Concentration	Limit	Level	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Arsenic	0.001	0.001	5.0	
Barium	0.618	0.001	100	
<b>^</b>	0.010	0.001		
Cadmium	ND	0.001	1.0	
Chromium -				
	ND	0.001	1.0	
Chromium	ND 0.126	0.001 0.001	1.0 5.0	
Chromium Lead	ND 0.126 0.094	0.001 0.001 0.001	1.0 5.0 5.0	

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

COPC Lower Yard.

Analyst

/ Mistine m waters



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	N/A	Project #:	N/A
Sample ID:	07-22-TCM QA/QC	Date Reported:	07-22-03
Laboratory Number:	26117	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	07-22-03
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)		Method Blank	Detecti Limit	CONTRACTOR OF SECURITION OF THE SECURITION OF	Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Barium	ND	ND	0.001	0.984	0.982	0.2%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Lead	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Sample			Acceptance
Added		Sample	Recovery	Range
0.500	0.002	0.501	99.8%	80% - 120%
0.500	0.984	1.48	99.7%	80% - 120%
0.500	ND	0.499	99.8%	80% - 120%
0.500	0.003	0.502	99.8%	80% - 120%
0.500	0.001	0.500	99.8%	80% - 120%
0.050	ND	0.050	100.0%	80% - 120%
0.500	0.001	0.500	99.8%	80% - 120%
0.500	ND	0.499	99.8%	80% - 120%
	0.500 0.500 0.500 0.500 0.500 0.050 0.500	0.500 0.002 0.500 0.984 0.500 ND 0.500 0.003 0.500 0.001 0.050 ND 0.500 0.001	Added Sample  0.500 0.002 0.501  0.500 0.984 1.48  0.500 ND 0.499  0.500 0.003 0.502  0.500 0.001 0.500  0.050 ND 0.050  0.500 0.001 0.500	Added         Sample         Recovery           0.500         0.002         0.501         99.8%           0.500         0.984         1.48         99.7%           0.500         ND         0.499         99.8%           0.500         0.003         0.502         99.8%           0.500         0.001         0.500         99.8%           0.050         ND         0.050         100.0%           0.500         0.001         0.500         99.8%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 26117, 26128.

Analyst



# SUSPECTED HAZARDOUS WASTE ANALYSIS

ConocoPhillips 96052-026 Client: Project #: Sample ID: Lower Yard Pumps Date Reported: 07-22-03 Date Sampled: Lab ID#: 07-17-03 26128 Soil Date Received: 07-21-03 Sample Matrix: Preservative: Cool Date Analyzed: 07-22-03 Condition: Cool and Intact Chain of Custody: 11161

Parameter Result

IGNITABILITY: Negative

CORROSIVITY: Negative pH = 7.61

REACTIVITY: Negative

RCRA Hazardous Waste Criteria

Parameter

IGNITABILITY: Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.

Hazardous Waste Criterion

(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: COPC Lower Yard.

# CHAIN OF CUSTODY RECORD

AMETERS	Remarks								Date Time			Sample Receipt	Y N/A	Received Intact	Cool - Ice/Blue Ice
ANALYSIS / PARAMETERS		77	`						ire)	lre)	ıre)	O			
	o, of siners	tnoO	\ 						Receiped by: (Signature)	Received by: (Signature)	Received by: (Signature)			5796 U.S. Highway 64 Farmington, New Mexico 87401	(505) 632-0615
Project Location	720.	Sample Matrix	1:3						Date Time 7-21-03 8:50am					5796 U.S Farmington, N	(505)
Project Location	Client No. $96052-026$		36128												
		Sample Sample Date Time	7-03 8:00 ar						2						
Client / Project Name	Sampler: Boloky Crivallja	Sample No./ San Identification Da	Lower Yard Pumps 7-17-03 8:00 am	>					Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)				

District I 1625 N. French Dr., Hobbs, NM 88240 District II

(This space for State Use)

APPROVED BY

RECEIVED nergy Minerals and Natural Resources

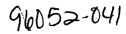
1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410 JUL 3 1 2003 Oil Conservation Divisio District IV Environmental Bureau 1220 South St. Francis D 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Oil Conservation Divisio

Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	ESOLID WASTE					
1. RCRA Exempt: Non-Exempt:	4. Generator: Conoco Phillips					
Verbal Approval Received: Yes \( \sum \) No \( \sum \)	5. Originating Site: Sunnyside Compressor Station					
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA					
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: Colorado					
7. Location of Material (Street Address or ULSTR) "E" Sec 9, T33N, R9W, La Plata County	Project #96052-041					
<ul> <li>9. <u>Circle One</u>: <ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste capproved</li> <li>All transporters must certify the wastes delivered are only those consigned for trans</li> </ul> </li> <li>BRIEF DESCRIPTION OF MATERIAL: <ul> <li>Used compressor oil stained soil from slop tank leak.</li> </ul> </li> </ul>	ecessary chemical analysis to I lassified hazardous by listing o	PROVE the				
CWS, notification to CDPHE, and analytical attached.  Estimated Volume 13 cy Known Volume (to be entered by the operator at the end of the control of the co	f the haul)cy					
SIGNATURE SUMMER RESIDENCE SIGNATURE SUMMER RESIDENCE AGENT TITLE: Environmental	Administrative Assistant	DATE: <u>07/23/03</u>				
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615		73103-7				





# 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 Company	Envirotech Inc. Soil Remediation Facility
5525 Highway 64	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):  Sunnyside Correressor Station  Whit E. Sec. 9, T33N, R9W  La Plata County, Colorado  attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste  ~ 5 cy stained soil from s'	lop tank leak (used compressur
1304	
r, Monica D. Olson	representative for :
Print Name	
ConocoPhillips Company	do hereby certify that, according to the Resource
Conservation and Recovery Act (RCRA) and Environmental Protection lescribed waste is: (Check appropriate classification)	Agency's July,1988, regulatory determination, the above
EXEMPT oilfield waste NON-EXEMP analysis or b	T oilfield waste which is non-hazardous by characteristic y product identification
nd that nothing has been added to the exempt or non-exempt non -haz	ardous waste defined above.
or NON-EXEMPT waste the following documentation is attached (cheOtheOtheOtheChain of Custody	eck appropriate items): r (description
This waste is in compliance with Regulated Levels of Naturally Occu IMAC 3.1 subpart 1403.C and D.	arring Radioactive Material (NORM) pursuant to 20
Jame (Original Signature): MMULE D. OLAM	
ine: HSE & Regulatory Technician	
ate: 7-21-03	



July 23, 2003

Project No. 96052-041

Colorado Department of Public Health and Environment

Attn: Donna Stoner

222 South 6<sup>th</sup> Street, Room 232

Grand Junction, Colorado 81501

Phone (970) 248-7168

Fax (970) 248-7198

RE: ACCEPTANCE OF USED COMPRESSOR OIL STAINED SOIL FROM A SLOP TANK LEAK AT THE SUNNYSIDE COMPRESSOR STATION, LA PLATA COUNTY, COLORADO

Dear Ms. Stoner:

Envirotech has been approached to accept used compressor oil stained soil resulting from a slop tank leak at ConocoPhillips' Sunnyside Compressor Station located in Unit E, Section 9, Township 33 North, Range 9 West, La Plata County, Colorado.

We have reviewed the TCLP Trace Metals analysis for this soil and found that there do not appear to be any hazardous constituents exceeding standards established for our soil remediation facility. We are providing courtesy notification before we proceed with accepting the material at our soil remediation facility.

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

Sincerely,

ENVIROTECH INC.

Landrea Jackson

**Environmental Administrative Assistant** 

ljackson@envirotech-inc.com

CC:

Denny Foust, NMOCD

LRJ/office/correspondence/Lany Jackson/072203 Stoner.doc



# SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: ConocoPhillips Project #: 96052-026 Production Tank Pit Date Reported: Sample ID: 07-16-03 Lab ID#: 26095 Date Sampled: 07-15-03 Soil Date Received: Sample Matrix: 07-16-03 Preservative: Cool Date Analyzed: 07-16-03 Condition: Cool and Intact Chain of Custody: 11149

Parameter

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 8.11

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:

Sunnyside CPD.

Analyst

Keview

\* 505 · 600 · 0615 · Fav 505 · 632 · 1865



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client: Sample ID:	ConocoPhillips Production Tank Pit	Project #: Date Reported:	96052-026 07-17-03
Laboratory Number:	26095	Date Sampled:	07-17-03
Chain of Custody:	11149	Date Received:	07-16-03
Sample Matrix:	TCLP Extract	Date Analyzed:	07-17-03
Preservative:	Cool	Date Extracted:	07-16-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.0
Barium	0.276	0.001	100
Cadmium	ND	0.001	1.0
Chromium	ND	0.001	5.0
Lead	ND	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 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Sunnyside CPD.

Analyst

Nistine of Walters



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

0% - 30%

0% - 30%

0% - 30%

Client:		N/A		Project #:			N/A
Sample ID:		07-17-TCM	QA/QC	Date Rep	orted:		07-17-03
Laboratory Number:		26080		Date Sam	pled:		N/A
Sample Matrix:		TCLP Extra	ct	Date Rec	eived:		N/A
Analysis Requested:		TCLP Meta	ls	Date Anal	yzed:		07-17-03
Condition:		N/A		Date Extra	acted:		07-16-03
Blank & Duplicate Conc. (mg/L)	That the in the comment of the figure	Method Blank	Detection Limit		Duplicat	5 4 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	0.630	0.632	0.3%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%

0.001

0.001

0.001

Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Spike		Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/L)				의과 하면도 이 목가를 하는 것이다.	Recovery		Range
Arsenic		0.500	ND	0.498	99.6%		80% - 120%
Barium		0.500	0.630	1.110	98.2%		80% - 120%
Cadmium		0.500	ND	0.499	99.8%		80% - 120%
Chromium		0.500	ND	0.499	99.8%		80% - 120%
Lead		0.500	ND	0.499	99.8%		80% - 120%
Mercury		0.050	ND	0.050	100.0%		80% - 120%
Selenium		0.500	ND	0.498	99.6%		80% - 120%
Silver		0.500	ND	0.499	99.8%		80% - 120%

ND

ND

ND

ND

ND

ND

0.0%

0.0%

0.0%

ND - Parameter not detected at the stated detection limit.

ND

ND

ND

Chromium

Lead

Mercury

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

ND

ND

ND

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments: QA/QC for samples 26080, 26095.

Analyst

# CHAIN OF CUSTODY RECORD

11109

	Relinquished by: (Signature)	Relinquished by (Signature)			1000	+ 7/1/23 17/A	Sample No./ Sample Sample Identification Date Time	Sampler:	Client / Project Name
		VELINT 7			200	27.00%	Lab Number	Client No. 460	Project Location SUMMYS, de CPD
ENVIROTECH INC 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615	п	7/16/63 OC 40			()	10 minus	Sample	96052-026	e CPD
Highway 64 N Mexico 87401 32-0615	Received by: (Signature)	Received by: (Signature)				7	Conta		
Sample Receipt  Y N N/A  Received Intact  Cool - Ice/Blue Ice		# Date Time  #/6/8 06:40						Remarks	ANALYSIS / PARAMETERS

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

# State of New Mexico Energy Minerals and Natural Resources

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

RECEIVED

JUL 3 1 2003 Environmental Bureau

Oil Conservation Division

Submit Original Plus 1 Copy to Appropriate District Office

Revised March 17, 1999

Form C-138

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator: Conoco Phillips
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: SJ 30-5 Unit #228
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "L" Sec 28, T30N, R5W, Rio Arriba County	Project #96052-040
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied be one certificate per job.</li> <li>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 capproved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	***
Soil stained with compressor waste oil.  CWS and analytical attached.	TO BOOM SON
Estimated Volume 6 cy Known Volume (to be entered by the operator at the end of	f the haul)cy
SIGNATURE MANAGEMENT FACILITY Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 07/23/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	<u>5</u>
(This space for State Use)	
APPROVED BY: Derry Kern TITLE: Enviro	Engl DATE: 7/24/03
APPROVED BY: Mantyon 724- TITLE: Environments	1 Geologis) DATE: 7/3//03

1. Generator Name and Address



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

2. Destination Name:

**BILL RICHARDSON** 

Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery
Director
Oil Conservation Division

# **CERTIFICATE OF WASTE STATUS**

ConocoPhillips Company	Envirotech Inc. Soil Remediation Facility Landfarm #2
5525 Highway 64 Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):  San Juan 30-5 Unit #228  Unit L, Sec. 28, T30N R5W  Rio Arriba County, New Muxic  attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):  APT#30-039-25127
4. Source and Description of Waste  ( W Soil Stained W) Compress	sor waste oil
n, Morica D. Olson Print Name	representative for :
ConocoPhillips Company	do hereby certify that, according to the Resource
Conservation and Recovery Act (RCRA) and Environmental Protection described waste is: (Check appropriate classification)	Agency's July, 1988, regulatory determination, the above
EXEMPT oilfield wasteNON-EXEMI analysis or l	PT oilfield waste which is non-hazardous by characteristic by product identification
nd that nothing has been added to the exempt or non-exempt non -haz	zardous waste defined above.
or NON-EXEMPT waste the following documentation is attached (character MSDS InformationOther RCRA Hazardous Waste AnalysisChain of Custody	neck appropriate items): er (description
This waste is in compliance with Regulated Levels of Naturally Occ WMAC 3.1 subpart 1403.C and D.	urring Radioactive Material (NORM) pursuant to 20
Jame (Original Signature): MMUL Q. Oson	
ine: HSE & Regulatory Technician	
Pate: 7-21-03	



# SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:

ConocoPhillips

Project #:

96052-026

Sample ID:

Stained Soil

Date Reported:

07-16-03

Lab ID#:

26080

Date Sampled:

07-09-03

Sample Matrix:

Soil

Date Received:

07-15-03

Preservative:

Cool

07-16-03

Condition:

Cool and Intact

Date Analyzed: Chain of Custody:

11109

**Parameter** 

Result

**IGNITABILITY:** 

Negative

CORROSIVITY:

Negative

88.8 = Hq

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:

30 - 5 #228 Compressor Spill.



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

	Cara and Dhillian	Duri All	00050 000
Client.	ConocoPhillips	Project #:	96052-026
Sample ID:	Stained Soil	Date Reported:	07-17-03
Laboratory Number:	26080	Date Sampled:	07-09-03
Chain of Custody:	11109	Date Received:	07-15-03
Sample Matrix:	TCLP Extract	Date Analyzed:	07-17-03
Preservative:	Cool	Date Extracted:	07-16-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

, and the first and the extension of the first and the

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.0
Barium	0.630	0.001	100
Cadmium	ND	0.001	1.0
Chromium	ND	0.001	5.0
Lead	ND	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 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA.

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

30 - 5 #228 Compressor Spill.

Analyst

Review



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		N/A		Project #:			N/A
Sample ID:		07-17-TCM	QA/QC	Date Repo	orted:		07-17-03
Laboratory Number:		26080		Date Sam	pled:		N/A
Sample Matrix:		TCLP Extra	ct	Date Rece	eived:		N/A
Analysis Requested:	:	TCLP Metal	S	Date Analy	yzed:		07-17-03
Condition:		N/A		Date Extra	icted:		07-16-03
Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	0.630	0.632	0.3%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	ND	ND	0.0%	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	ND	ND	0.0%	0% - 30%
Spike 🛴 🐇		Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/L)		Added		Sample	Recovery		Range
Arsenic		0.500	ND	0.498	99.6%		80% - 120%
Barium		0.500	0.630	1.110	98.2%		80% - 120%
Cadmium		0.500	ND	0.499	99.8%		80% - 120%
Chromium		0.500	ND	0.499	99.8%		80% - 120%
Lead		0.500	ND	0.499	99.8%		80% - 120%
Mercury		0.050	ND	0.050	100.0%		80% - 120%
Selenium		0.500	ND	0.498	99.6%		80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Silver

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

0.499

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

0.500

ND

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 26080, 26095.

Analyst

Mistanin Walters
Review

99.8%

80% - 120%

# CHAIN OF CUSTODY RECORD

11109

Cool · Ice/Blue Ice		(505) 632-0615				
Received Intact		5796 U.S. Highway 64 Farmington, New Mexico 87401				
Y N/A						
Sample Receipt	HINC.	ENVIROTECH INC.			,	
	Received by: (Signature)	Receive			ure)	Relinquished by: (Signature)
	Received by: (Signature)	Receive			ure)	Helinquished by: (Signat
ν. C	Mary C. C.	3 07:00	-+-1		pr pir	Marken (by p)
Date Time	d by: (Signature)	Date Time Receive			ure)	Relinquished by: (Signature)
Compresson So. 1/			26080	W	7-9-03	Stering d Sail
	1	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
Hemarks	o. of ainers		70 0			
		9/2052-026				Sampler:
îS	ANALYSIS / PARAMETERS	28	12 22		5	Careco Rillips
			Project Location			Client / Project Name

# RECEIVED

District I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico RECEIVED gy Minerals and Natural Resources

JUN 3 0 2003

Form C-138 Revised March 17, 1999

District II 1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Road, Aztec, NM 87410

District III

1111 2 1 2003Oil Conservation Division District IV Environmental Bureau South St. Francis Dr. 1220 S. St. Francis Dr., Santa Fe, NM 87505 Conservation Division and Fe, NM 87505

**OIL CONSERVATION** DIVISION

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator: Transwestern Pipeline Co.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: San Juan Station
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Terracon
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) Lot 41 CR 4935, Bloomfield	Project #98063-018
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 capproved</li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	220.75.26.27
Pipeline valve oil that leaked from pig launcher.	
CWS & Analytical attached.	JUN 2003  PECEIVED  OIL CONS. DIV.  DIST. 3
Estimated Volumecy Known Volume (to be entered by the operator at the en	nd of the haul)cy
SIGNATURE Janage R. Jacks TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 06/25/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505) 632-0615</u>	672,052
(This space for State Use)	
APPROVED BY: Demy tent TITLE: Enviro/	Engr DATE: 6/27/03
APPROVED BY: Martyn My - TITLE: Envivorments	1 Grology DATE: 1/21/03



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON GOVERNOR

Joanna Prukop Cabluet Secretary Lori Wrotenbery Director Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

	1. Generator Name and Address Transwesten Pupeline Co.	2. Destination Name: Envirotech Inc. Soil Remediation Facility
	P.O. Box 399	Landfarm #2
		Hilltop, New Mexico
	Bloomfield, nm 87413	The Mark Miles of Miles of Miles of Miles
	3. Originating Site (name): San Juan Station	Location of the Waste (Street address &/or ULSTR):
	San Swan Southar Die	1. 1.1. 200. 200.
	Fot #41 CR4935, Bloom	Held, 11M 87413
	attach list of originating sites as appropriate	
	The American Description of Waste	to a to a late a la
	Pupline value ou	hat cleaked from pig clauncher.
	•	0 , 0
ī	CHRIS GASTOL	representative for:
->	Print Name	
1100	InsunAtumPiolline	do hereby certify that, according to the Resource
		ental Protection Agency's July, 1988, regulatory determination, the above
	d waste is: (Check appropriate classification)	
r ¥	EMPT 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-e	xempt non -hazardous waste defined above.
For NO	N-EXEMPT waste the following documentation	is attached (check appropriate items):
£61 140)	MSDS Information	Other (description
	KCRA Hazardous Waste Analysis	
	Chain of Custody	
This wa	<u> </u>	Naturally Occurring Radioactive Material (NORM) pursuant to 20
	ste is in compliance with Regulated Levels of	Naturally Occurring Radioactive Material (NORM) pursuant to 20
	<u> </u>	Naturally Occurring Radioactive Material (NORM) pursuant to 20
NMAC	ste is in compliance with Regulated Levels of	Naturally Occurring Radioactive Material (NORM) pursuant to 20
NMAC Name (	ste is in compliance with Regulated Levels of 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant to 20
NMAC Name ( Title:	ste is in compliance with Regulated Levels of 3.1 subpart 1403.C and D.  Original Signature):	Naturally Occurring Radioactive Material (NORM) pursuant to 20
NMAC Name ( Title: Phone N	ste is in compliance with Regulated Levels of 3.1 subpart 1403.C and D.  Original Signature):  SR. Com Tack	Naturally Occurring Radioactive Material (NORM) pursuant to 20



# SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:

Terracon

Project #:

98063-018

Sample ID:

Pig Launcher

Date Reported:

06-20-03

Lab ID#:

25934

Date Sampled:

06-19-03

Sample Matrix:

Soil

Date Received:

06-19-03

Preservative:

Cool

Date Analyzed:

06-20-03

Condition:

Cool and Intact

Chain of Custody:

11058

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 7.42

REACT!VITY:

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:

Transwestern San Juan Station.

Ånalvst

Review Misting Walters



## TRACE METAL ANALYSIS

Client:	Terracon	Project #:	98063-018
Sample ID:	Pig Launcher	Date Reported:	06-20-03
Laboratory Number:	25934	Date Sampled:	06-19-03
Chain of Custody:	1 <b>10</b> 58	Date Received:	06-19-03
Sample Matrix:	Soil	Date Analyzed:	06-20-03
Preservative:	Cool	Date Digested:	06-20-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.023	0.001	5.0
Barium	6.06	0.001	100
Cadmium	0.017	0.001	1.0
Chromium	1.53	0.001	5.0
Lead	1.46	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.018	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:

Transwestern San Juan Station.

Analyst

Review ... Mristini M Walters



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

0.0%

0.0%

0% - 30%

0% - 30%

Client:		QA/QC		Project #:			N/A
Sample ID:		06-20-TM	QA/QC	Date Repo	orted:		06-20-03
Laboratory Number:		25934		Date Sam	pled:	,	N/A
Sample Matrix:		Soil		Date Rece	eived:		N/A
Analysis Requested:		Total RCR	A Metals	Date Anal	yzed:		06-20-03
Condition:		N/A		Date Dige	sted:		06-20-03
			•				
Blank & Duplicate	Instrument	Method	Detection	Sample	Duplicate		Acceptance
Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
E TO MICE STORY CONTROL OF THE STORY OF THE	2005 - Principal Committee (No. 100 - 100			Sample 0.023	Duplicate 0.023		
Conc. (mg/L)	Blank (mg/L)	Blank	Limit			Diff.	Range
Conc. (mg/L) Arsenic	Blank (mg/L) ND	Blank ND	Limit 0.001	0.023	0.023	Diff. 0.0%	Range 0% - 30%
Conc. (mg/L) Arsenic Barium	Blank (mg/L) ND ND	Blank ND ND	Limit 0.001 0.001	0.023 6.06	0.023 6.04	Diff. 0.0% 0.3%	Range 0% - 30% 0% - 30%
Conc. (mg/L) Arsenic Barium Cadmium	Blank (mg/L) ND ND ND	Blank ND ND ND	Limit 0.001 0.001 0.001 0.001	0.023 6.06 0.017	0.023 6.04 0.017	Diff. 0.0% 0.3% 0.0%	Range 0% - 30% 0% - 30% 0% - 30%

0.001

0.001

ND

ND

Spike Conc. (mg/L)	Spike Added	Sample	e Spiked Sample		Acceptance Range
Arsenic	0.500	0.023	0.521	99.6%	80% - 120%
Barium	0.500	6.06	6.54	99.7%	80% - 120%
Cadmium	0.500	0.017	0.516	99.8%	80% - 120%
Chromium	0.500	1.53	2.02	99.5%	80% - 120%
Lead	0.500	1.46	1.95	99.5%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.018	0.518	100.0%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

0.018

ND

0.018

ND

ND - Parameter not detected at the stated detection limit.

ND

ND

References:

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 25934.

Analyst

Review

# CHAIN OF CUSTODY RECORD

Client / Project Name	Terracion	Project Location San Jolon	San Jolan Station			ANALYSIS	ANALYSIS / PARAMETERS	
Sampler:		Client No. 980	98063-018	to of siners		5.20		Remarks
Sample No./ Sam Identification Da	Sample Sample Date Time	Lab Number	Sample Matrix		1301 8 1301 8	24.7		
Pig Launcher 6/19/03	75; p1 50]1	25934	50:1	-	7			
				-				
	-							
Relinquished'by: (Signature)			Date Time Re 6ッパ・3 / 14,40	Received by: (Signature)	Signature)	all	\     	Date Time // 19.40
Relinquished by: (Signature)			Re	Received by: (Signature)	Signature)			
Relinquished by: (Signature)			Re	Received by: (Signature)	Signature)			
		Sulley	ENVIROTECH INC	玉 ら	2		San	Sample Receipt
								Y N/A
			5796 U.S. Highway 64 Farmington, New Mexico 87401	lighway 6 / Mexico	4 37401		Received Intact	act
			(505) 632-0615	2-0615			Cool - Ice/Blue Ice	

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

# RECEIVED State of New Mexico IIII Energy Minerals and Natural Resources

Environmental Rule Conservation Division Oil Conservation Division Oil Conservation Division Otto 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	T SOLID WASTE
1. RCRA Exempt: □ Non-Exempt: □	4. Generator: Coastal Chemical, LLC
Verbal Approval Received: Yes 🗌 No 🖂	5. Originating Site: Loading Pad in Yard
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Coastal Chemical
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 1130 Madison Lane, Farmington	Project #95007-012
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste c approved</li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	
New motor oil spilled onto concrete loading pad & mixed with Floor Dry.	374257627
CWS and MSDS attached.	JUN 2003  OL CONS. DIV.  DIST. S. D. V.
Estimated Volume 3bbl cy Known Volume (to be entered by the operator at the end	of the haul)cy
SIGNATURE Management Facility Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 06/26/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505) 632-0615</u>	
(This space for State Use)	·
APPROVED BY: Deny Four TITLE: Environ	Engr DATE: 6/27/03  ntal Codast DATE: 7/21/03
APPROVED BY: Munty 9/2/1, TITLE: Envivonment	nta / Codgst DATE: 7/21/03



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** 

Governor
Jonnua Prukop
Cubinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name:
Coastal Chemical Co., LLC	Envirotech Inc. Soil Remediation Facility
	Landfarm #2
1130 Madison Ln.	Hilltop, New Mexico
Farmington WM 87401	
3 ()rigingland Site (fighte)"	Location of the Waste (Street address &/or ULSTR):
Coustal Chemical Co., LLC	
1130 Madison In	
attach list of organizating sites as appropriate	
attach list of originating sites as appropriate	
4. Source and Description of Waste Virgin motor oil (Peg 805) = at loastal Facility + mixed	spilled on concrete loading pad with Floor dry.
I. Mike Fair	representative for :
Print Name	
Constal Chemical Co. Lic	do hereby certify that, according to the Resource
Conservation and Recovery Act (RCRA) and Environmental Prot	ection Agency's July, 1988, regulatory determination, the above
described waste is: (Check appropriate classification)	
	CEMPT oilfield waste which is non-hazardous by characteristic is or by product identification
·	•
and that nothing has been added to the exempt or non-exempt nor	n-hazardous waste defined above.
For NON-EXEMPT waste the following documentation is attach	ed (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.	
151 =	
No SI -	
Name (Original Signature): Mike found	
Name (Original Signature): Mike found	
Name (Original Signature): Muha farme  Title: Facility Manne	
Name (Original Signature): Mike found	· · · · · · · · · · · · · · · · · · ·
Name (Original Signature): Muha farme  Title: Facility Manne	

Oil Conservation Division \* 1000 Rio Brazos Road \* Aztec, New Mexico 87410 Phone: (505) 334-6178 \* Fax (505) 334-6170 \* http://www.emnud.state.nm.us

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# 602466-00 MOBIL PEGASUS 805

# 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805 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 (Primary) CHEMTREC: 800-424-9300 (Secondary) 281-834-3296

Product and Technical Information: 800-662-4525 703-846-6693 MSDS Fax on Demand: 613-228-1467, other MSDS information: 856-224-4644

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

GLOBALLY REPORTABLE MSDS INGREDIENTS:

None.

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: Light 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.

MOBIL PEGASUS 805

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# 4. FIRST AID MEASURES

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

SKIN CONTACT: Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. 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 fites 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): > 216(420) (ASTM D-92).

Flammable Limits (approx. % vol.in air) - LEL: 0.9%, 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. measures to minimize the effects on ground water. Recover by pumping or contain spilled liquid with sand or other suitable absorbent and remove mechanically into containers. If necessary,

(Section continued next page)

MOBIL PEGASUS 805

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dispose of adsorbed residues as directed in Section 13. WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

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

PERSONAL PRECAUTIONS: See Section 6

### 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: Frevent 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.

(Section continued next page)

MOBIL PEGASUS 805

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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: Light Amber ODOR: Marketable

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 288 (550)

MELTING POINT C(F): NA

FLASH POINT C(F): > 216(420) (ASTM D-92)

FLAMMABILITY (solids): NE AUTO FLAMMABILITY: NA EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mang 20 C: < 0.1

VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.86-0.07

SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, ast: > 50.0

VISCOSITY AT 100 C, est: > 10.0

POUR POINT C(F): < -12(10)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

DMSO EXTRACT, IP-346 (WI.8): <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: Froduct does not decompose at

ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

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# 11. TOXICOLOGICAL DATA

### ---ACUTE TOXICOLOGY---

- ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- DERMAL TOXICITY (RABBITS): 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). 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

(Section continued next page)

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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 darcinogenic 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 PATE AND EFFECTS:

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

# 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

# ExxonMobil MATERIAL SAFETY DATA BULLETIN

MOBIL PEGASUS 805

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# 14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

### 15. REGULATORY INFORMATION

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

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

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

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

SARA (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

(0.038)XYLENES 1330-20-7 22 ZINC (ELEMENTAL ANALYSIS) (0.03%) 7440-66-6 22 PHOSPHORODITHOIC ACID, 0,0-DI 68649-42-3 C1-14-ALKYL ESTERS, ZINC SALTS (2:

(Section continued next page)

MOBIL PEGASUS 805

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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
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= <b>TSCA</b> 12b	20≖IL RTK	25=PA RTK
				26=RI RTK

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

### 16. OTHER INFORMATION

USE: ENGINE LUBRICANT

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

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

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

### INDUSTRIAL LABEL

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

For Internal Use Only: MRC: 1\* 1\* 1\* 1\* 1\*, MPPEC: A, TRN: 602466-00, ELIS: 400795, CMCS97: 97D936, REQ: US - MARKETING, SAFE USE: L EHS Approval Date: 27SEP2001

(Section continued next page)

# ExxonMobil

# **MATERIAL SAFETY DATA BULLETIN**

MOBIL PEGASUS 805 602466-00 Fage 9 of 9

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

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RECEIVED RECEIVED District I State of New Mexico District II 1301 W. Grand Avenue, Artesia, NM 882301 2 1 2003

District III Form C-138 Revised March 17, 1999 1000 Rio Brazos Road, Aztec, NM 874 Environmental Bureau Oil Conservation Division Submit Original OIL CONSERVATION Plus 1 Copy DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Dr. to Appropriate District Office DIVISION Santa Fe, NM 87505 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 4. Generator: Double Tank 1. RCRA Exempt: Verbal Approval Received: 5. Originating Site: Double Tank Yard 2. Management Facility Destination: Envirotech Soil Remediation Facility, 6. Transporter: Envirotech Landfarm #2 3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 8. State: New Mexico 87401 7. Location of Material (Street Address or ULSTR) 3601 North 1st Street. Project #01046-003 Bloomfield 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:** 

Oil stained soil from various locations in yard. at request of Chapter Seven Bankruptcy Trustee

CWS, Analytical, & NORMS attached.

Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul)cy
SIGNATURE Janduk K. Jallon TITLE: Environmental Administrative Assistant DATE: 07/11/03 Waste Management Fachity Authorized Agent
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615
APPROVED BY: Dent Jour TITLE: Enviro Engr DATE: 7/6/03



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
GOVERNOT

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery
Director
Oll Conservation Division

# **CERTIFICATE OF WASTE STATUS**

ı	I, Generator Name and Address	2. Destination Name:	_
	Double Tank	Envirotech Inc. Soil Remediation Facility	
- [	3601 N. 1st Street	Landfarm #2	
	Bloomfield, New Mexico 87413	Hilltop, New Mexico	- 1
1	Describing 21011 Manifest VI 120	, , , , , , , , , , , , , , , , , , , ,	- 1
Ī	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):	
ĺ	Double Tank		1
i	3601 N. 1st Street		
1	Bloomfield, New Mexico 87413		-
L	attach list of originating sites as appropriate		
.[	4. Source and Description of Waste		.
1	Oil stained and from surdays baselines in send		-
1	Oil stained soil from various locations in yard.		
L			
I. R	ichard J. Parmley, Jr., Chapter 7 Tru	representative for :	
	ichard J. Paroley, Jr., Chapter 7 Tru Print Name	•	**
	•		
		hereby certify that, according to the Resource Conservation and	•
		uty,1988, regulatory determination, the above described waste is:	
(Check	appropriate classification)	·	
EX	EMPT oilifield waste XXXNON-I	EXEMPT oilfield waste which is non-hazardous by characteristic	
E/AN		is or by product identification	
and that	nothing has been added to the exempt or non-exempt no	n -hazardous waste defined above.	_
			_
For NO	N-EXEMPT waste the following documentation is attach		
		_Other (description	
	XXRCRA Hazardous Waste Analysis		
	XXChain of Custody		
TV. 4	A 1-1 and the second of the second of National	Occaning Padiocethy Matrice (NOPM)	-
	ste is in compusance with Regulated Levels of Naturali, 3.1 subpart 1403.C and D.	y Occurring Radioactive Material (NORM) pursuant to 20	
WIAC	3.1 subpart 1403.C and D.		
Name (	Original Signature):	Market Marie Commence	
•		and the same of th	•
Title:	Chapter 7 Trustee	232 North Schwartz	
		Farmington 87401	
Phone N	umber: (505) 327-0496	7/001	
Date:	07/14/03	<b>-</b> <b>-</b> *.	f ett in speni



# TRACE METAL ANALYSIS

Client:	Cardin & Parmley	Project #:	01046-003
Sample ID:	1 - S	Date Reported:	07-03-03
Laboratory Number:	26028	Date Sampled:	06-30-03
Chain of Custody:	11088	Date Received:	07-02-03
Sample Matrix:	Soil	Date Analyzed:	07-03-03
Preservative:	Cool	Date Digested:	07-02-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)			
Arsenic	0.016	0.001	5.0			
Barium	7.17	0.001	100			
Cadmium	0.087	0.001	1.0			
Chromium	4.33	0.001	5.0			
Lead	4.12	0.001	5.0			
Mercury	ND	0.001	0.2			
Selenium	0.009	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:

Double Tank Yard.

Analyst

Mistani M Walles
Review



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:		QA/QC		Project #:			N/A			
Sample ID:		07-03-TM	04/00	-						
•			QA/QC	Date Rep		07-03-03				
Laboratory Number:		26028		Date Sam	•	N/A				
Sample Matrix:		Soil	A 84-4-1-	Date Rec		N/A				
Analysis Requested:		Total RCR	A ivietais	Date Anal	•	07-03-03				
Condition:		N/A		Date Dige	ested:	07-02-03				
	Instrument	Method	Detection Limit	n Sample	Duplicate	%	Acceptance			
Conc. (mg/L) E	Blank (mg/L) ND	Blank ND	0.001	0.016	0.016	Diff. 0.0%	Range 0% - 30%			
Barium	ND	ND	0.001	7.17	7.15	0.3%	0% - 30%			
Cadmium	ND	ND	0.001	0.087	0.086	0.3 % 1.1%	0% - 30%			
Chromium	ND	ND	0.001	4.33	4.34	0.2%	0% - 30%			
Lead	ND	ND	0.001	4.33 4.12	4.11	0.2%	0% - 30%			
Mercury	ND	ND	0.001	ND	4.11 ND					
Selenium	ND	ND ND	0.001			0.0%	0% - 30%			
Silver	ND ND	ND	0.001	0.00 <del>9</del> ND	0.009	0.0%	0% - 30%			
Silvei	ND	NU	0.001	ND	ND	0.0%	0% - 30%			
Spike		Spike	Sample	Spiked	Percent		Acceptance			
Conc. (mg/L)	Anna Tari	Added		Sample	e Recovery		Range			
Arsenic		0.500	0.016	0.515	99.8%		80% - 120%			
Barium		0.500	7.17	7.65	99.7%		80% - 120%			
Cadmium		0.500	0.087	0.585	99.7%		80% - 120%			
Chromium		0.500	4.33	4.82	99.8%		80% - 120%			
Lead		0.500	4.12	4.60	99.6%		80% <b>-</b> 120%			
Mercury		0.050	ND	0.050	100.0%		80% - 120%			
Selenium		0.500	0.009	0.508	99.8%		80% - 120%			
Silver		0.500	ND	0.499	99.8%		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 26028.

Analyst



# SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client:

Cardin & Parmley

Project #:

01046-003

Sample ID: Lab ID#:

1-S 26028 Date Reported: Date Sampled:

07-02-03 06-30-03

Sample Matrix:

Soil

Date Received:

07-02-03

Preservative:

Cool

Date Analyzed:

07-02-03

Condition:

Cool and Intact

Chain of Custody:

11088

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 7.03

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:

Double Tank Yard.

Analyst

<u>"Mistine" m Watles</u> Review

# CHAIN OF CUSTODY RECORD

ANALYSIS / PARAMETERS	Remarks								Date Time			Sample Receipt	γ N/A	Received Intact	Cool - Ice/Blue Ice
ANALYSIS / P.	27 8	tainers AS AS	noO	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					Received by: (Signature)	Received by: (Signature)	Received by: (Signature)	VIDOTECH IOC		lighway 64	v Mexico 87401 2-0615
	Client No.	01046-003	Sample Lab Number Matrix	2.028 Soil		-			Date Time Re <b>07-02-05</b> 8:01		Re	FOVIDOT	_ ]×	5796 U.S. Highway 64	Farmington, New Mexico 87401 (505) 632-0615
	CARDIN & PARMILY DO	BREIS D. Young	Sample Sample Date Time	o3 14:25					Relinquished by: (Signature)	Relinquished by: (819 mature)	Relinquished by: (Signature)				

# **HIGH DESERT SAFETY**

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

# NORM SURVEY DATA SHEET

Survey Number: <u>7-10-03-01</u>

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.07 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Stained Soil at NW Corner of Southern Building

Comments:

Survey Conducted by: Gary W. Howe

Mary Nave (Sknature)

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

### NORM SURVEY DATA SHEET

Survey	Number:	7-10-03-02

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.07 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Stained Soil inside Southern Building

Comments:

Survey Conducted by: Gary W. Howe

Say Worker (Signature)

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

### NORM SURVEY DATA SHEET

Survey Number: <u>7-10-03-03</u>

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc - GP-200 - Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.08 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Drum of Used Oil inside Southern Building

Comments:

Survey Conducted by: Gary W. Howe

Lay Have

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

### NORM SURVEY DATA SHEET

Survey	Number:	<u>7-1</u> 0-03-04	ŧ

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.08 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Sand Blast Sand at NW Corner of Southern Building

Comments:

Survey Conducted by: Gary W. Howe

Signature)

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

### **NORM SURVEY DATA SHEET**

Survey Number: <u>7-10-03-10</u>

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.07 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Used Oil at SW corner of NW Building

Comments:

Survey Conducted by: Gary W. Howe

Jany W Have (Signature)

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

### NORM SURVEY DATA SHEET

Survey Number: <u>7-10-03-09</u>
Owner: Double Tank
Location: Yard
Date: July 10, 2003
Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535
Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454
Battery Test: (YES)
Background Radiation Level: <u>0.07</u> mR/hr
Actual Readings: 0.08 mR/hr
Equipment information:
Manufacturer:
Serial Number:
Description: Stained Soil in NW Building
Comments:
Survey Conducted by: Gary W. Howe
(Signature)

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

### **NORM SURVEY DATA SHEET**

Survey	Number:	7-	10-	03-11

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc - GSM-110 - Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.07 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Used Oil W of NW Building

Comments:

Survey Conducted by: Gary W. Howe

Say Ware
(Signature)

**301 South Frontier** Bloomfield, NM 87413 Phone - (505) 632-3633 Cell - (505) 330-0614 Fax - (505) 632-2359

### NORM SURVEY DATA SHEET

Survey Number: 7-10-03-	12
-------------------------	----

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.08 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Stained Soil on Concrete Slab Centered Between the Three Buildings

Comments:

Survey Conducted by: Gary W. Howe

August Ward

(Signature)

RECEIVED State of New Mexico Energy Minerals and Natural Resour    District III	RECEIVED  Total State of the control		
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE			
1. RCRA Exempt: Non-Exempt: Verbal Approval Received: Yes	4. Generator: Double Tank		
Verbal Approval Received: Yes Yes No 🖂	5. Originating Site: Double Tank Yard		
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech		
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico		
7. Location of Material (Street Address or ULSTR) 3601 North 1 <sup>st</sup> Street, Bloomfield	Project #01046-003		
<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 clapproved</li> <li>All transporters must certify the wastes delivered are only those consigned for transporters.</li> </ul>	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be		
BRIEF DESCRIPTION OF MATERIAL:			
Tank bottom coating material. a trequest of Chapter Seven Bankruptcy Trustee  CWS, Analytical, & NORMS attached.	JUL 2003 ON COMB DIV.		

Known Volume (to be entered by the operator at the end of the haul)

TITLE: Environmental Administrative Assistant

DATE: <u>07/11/03</u>

Estimated Volume \_\_\_

(This space for State Use)

SIGNATURE

Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615

-, 7-14-03; 2:18PM; ENVIROTECH



## 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:
	Double Tank	Envirotech Inc. Soil Remediation Facility
	3601 N. 1st Street	Landfarm #2
	Bloomfield, New Mexico 87413	Hilltop, New Mexico
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Double Tank	
	3601 N. 1st Street	
	Bloomfield, New Mexico 87413	
	attach list of originating sites as appropriate	
	4. Source and Description of Waste	
	Tank Bottom Coating Material.	
		N.
I, 18,4	drand Tharmley Chapter 7 Tr	us to representative for:
	Print Name	
		by certify that, according to the Resource Conservation and
	ry Act (RCRA) and Environmental Protection Agency's July, 1: appropriate classification)	988, regulatory determination, the above described waste is:
CHECK	appropriate classification)	
RX	KEMPT oilfield waste XXXNON-EXEI analysis or	MPT oilfield waste which is non-hazardous by characteristic by product identification
and that	t nothing has been added to the exempt or non-exempt non -ha	nzardone zupote defined above
and ma	t nothing has been abded to the exempt of hon-exempt non -no	Maidous waste delined above.
For NO	N-EXEMPT waste the following documentation is attached (c	check appropriate items):
		ner (description
	XXRCRA Hazardous Waste Analysis	·
	XXChain of Custody	
		·
	iste is in compliance with Regulated Levels of Naturally Oc. 3.1 subpart 1403.C and D.	curring Radioactive Material (NORM) pursuant to 20
	1/1////////////////////////////////////	
Vame (	Original Signature):	
fitle:	Chapter Trustee	
hone N	(umber: 327-0496	
)ate:	7-14-03	

Oil Conservation Division \* 1000 Rio Brazos Road \* Aztec, New Mexico 87410 Phone: (505) 334-6178 \* Fax (505) 334-6170 \* http://www.emard.state.nm.us



### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID: Cardin & Parmley 1-

Project #:

01046-003

Sample ID: Lab ID#:

1-26002 Date Reported: Date Sampled:

07-01-03 06-25-03

Sample Matrix:

Solid Cool Date Received:

06-26-03

Preservative: Condition:

Cool and Intact

Date Analyzed: Chain of Custody: 06-27-03 11076

**Parameter** 

Result

**IGNITABILITY:** 

**Negative** 

**CORROSIVITY:** 

**Negative** 

pH = 5.00

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:

Double Tank, Yard.

Analyst

100+012



### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Cardin & Parmley	Project #:	01046-003
Sample ID:	1-	Date Reported:	07-01-03
Laboratory Number:	26002	Date Sampled:	06-25-03
Chain of Custody:	11076	Date Received:	06-26-03
Sample Matrix:	TCLP Extract	Date Extracted:	06-27-03
Preservative:	Cool	Date Analyzed:	06-30-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory	
	Concentration	Limit	Limits	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Vinyl Chloride	ND	0.0001	0.2	
1,1-Dichloroethene	ND	0.0001	0.7	
2-Butanone (MEK)	0.0290	0.0001	200	
Chloroform	ND	0.0001	6.0	
Carbon Tetrachloride	ND	0.0001	0.5	
Benzene	0.0022	0.0001	0.5	
1,2-Dichloroethane	ND	0.0001	0.5	
Trichloroethene	ND	0.0003	0.5	
Tetrachloroethene	ND	0.0005	0.7	
Chlorobenzene	ND	0.0003	100	
1,4-Dichlorobenzene	ND	0.0002	7.5	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
· ·	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Doule Tank, Yard.

Analyst P. agreement



### EPA METHOD 8040 PHENOLS

Client:	Cardin & Parmley	Project #:	01046-003
Sample ID:	1-	Date Reported:	07-01-03
Laboratory Number:	26002	Date Sampled:	06-25-03
Chain of Custody:	11076	Date Received:	06-26-03
Sample Matrix:	TCLP Extract	Date Extracted:	06-27-03
Preservative:	Cool	Date Analyzed:	07-01-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
•,	2-Fluorophenol	99%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Double Tank, Yard.

Analyst



### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Cardin & Parmley	Project #:	01046-003
Sample ID:	1-	Date Reported:	07-01-03
Laboratory Number:	26002	Date Sampled:	06-25-03
Chain of Custody:	11076	Date Received:	06-26-03
Sample Matrix:	TCLP Extract	Date Extracted:	06-27-03
Preservative:	Cool	Date Analyzed:	07-01-03
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	

2-fluorobiphenyl

97%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Double Tank, Yard.

Analyst C. Qu

Mistine M Welters
Review



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Misterier Walters

Client:	Cardin & Parmley	Project #:	01046-003
Sample ID:	1-	Date Reported:	07-01-03
Laboratory Number:	26002	Date Sampled:	06-25-03
Chain of Custody:	11076	Date Received:	06-26-03
Sample Matrix:	TCLP Extract	Date Analyzed:	07-01-03
Preservative:	Cool	Date Extracted:	06-27-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
0.009	0.001	5.0
4.27	0.001	100
0.001	0.001	1.0
ND	0.001	5.0
ND	0.001	5.0
ND	0.001	0.2
0.002	0.001	1.0
ND	0.001	5.0
	(mg/L)  0.009 4.27 0.001 ND ND ND ND ND 0.002	Concentration (mg/L)     Limit (mg/L)       0.009     0.001       4.27     0.001       0.001     0.001       ND     0.001       ND     0.001       ND     0.001       ND     0.001       ND     0.001       0.002     0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments: Double Tank, Yard.

Analyst



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client: Sample ID:	QA/QC Laboratory Blank	Project #: Date Reported:	N/A 07-01-03
Laboratory Number:	06-30-TCV	Date Sampled:	N/A
Sample Matrix: Preservative:	Water N/A	Date Received: Date Analyzed:	N/A 06-30-03
Condition:	N/A	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform \	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26002.

blue (ég

Misterie M Walters



### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-01-03
Laboratory Number:	06-27-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-30-03
Condition:	N/A	Date Extracted:	06-27-03
		Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	99%
	1,4-difluorobenzene	98%
	4-bromochlorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organics, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 26002.

halyst t. Upin



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client: Sample ID:	QA/QC Matrix Duplicate	Project #: Date Reported:	N/A 07-01-03
Laboratory Number:	26002	Date Sampled:	N/A
Sample Matrix: Analysis Requested:	TCLP Extract TCLP	Date Received: Date Analyzed:	N/A 06-30-03
Condition:	N/A	Date Extracted:	06-27-03

Duplicate				
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0290	0.0290	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0022	0.0022	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 26002.

Analyst

/ Mistine of Watles
Review



### **EPA METHODS 8010/8020** AROMATIC / HALOGENATED **VOLATILE ORGANICS QUALITY ASSURANCE REPORT**

Client:

Sample ID: Laboratory Number:

Sample Matrix: Analysis Requested:

1.1-Dichloroethene

2-Butanone (MEK)

Condition:

QA/QC

Matrix Spike

26002 TCLP Extract

**TCLP** N/A

ND

0.0290

Project #:

Date Reported:

Date Sampled:

Date Received: Date Analyzed:

Date Extracted:

0.0001

0.0001

98.8%

99.7%

06-30-03 06-27-03

43-143

47-132

07-01-03

N/A

N/A

N/A

	Spiked				SW-846	
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99.0%	28-163

0.050

0.050

0.0494

0.0788

E Datamonic (men)	0.0200	0.000	0.0100	0.0001	33.1 /0	71-102
Chloroform	ND	0.050	0.0500	0.0001	99.9%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98.0%	43-143
Benzene	0.0022	0.050	0.0520	0.0001	99.6%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98.0%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99.0%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99.0%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99.0%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99.0%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 26002.



### EPA METHOD 8040 PHENOLS

### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-01-03
Laboratory Number:	07-01-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-01-03
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26002.

Analyst

Review Colters



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-01-03
Laboratory Number:	06-27-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-27-03
Condition:	Cool & Intact	Date Analyzed:	07-01-03
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol	99%	
	2,4,6-Tribromophenol	99%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26002.

Analyst



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-01-03
Laboratory Number:	26002	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-27-03
Condition:	Cool & Intact	Date Analyzed:	07-01-03
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference	
	8040 Compounds	30.0%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26002.

Analyst C. Opportunity



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-01-03
Laboratory Number:	07-01-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-01-03
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Description -	ND		
Pyridine Hexachloroethane	ND ND	0.020 0.020	5.0 3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accept	ance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	100%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure, S	W-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample 26002.

Analyst T. Up

Mistine M Walters
Review



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-01-03
Laboratory Number:	06-27-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-27-03
Condition:	Cool and Intact	Date Analyzed:	07-01-03
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	

2-fluorobiphenyl

96%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26002.

Analyst



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-01-03
Laboratory Number:	26002	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	06-27-03
Condition:	N/A	Date Analyzed:	07-01-03
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Result Percent	
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

8090 Compounds

30%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 26002.

Analyst



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	N/A	Project #:	N/A
Sample ID:	07-01-TCM QA/QC	Date Reported:	07-01-03
Laboratory Number:	26002	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	07-01-03
Condition:	N/A	Date Extracted:	06-27-03

Blank & Duplicate	Instrument	Method	Detection	Sample	Duplicate	%	Acceptance
Conc. (mg/L)	Blank	Blank	Limit	114	1080	Difference	Range
Arsenic	ND	ND	0.001	0.009	0.009	0.0%	0% - 30%
Barium	ND	ND	0.001	4.27	4.29	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spike	Sample	Spiked	Percent	Acceptance
Conc. (mg/L)	Added	# N	Sample	Recovery	Range
Arsenic	0.500	0.009	0.508	99.8%	80% - 120%
Barium	0.500	4.27	4.76	99.8%	80% - 120%
Cadmium	0.500	0.001	0.501	100.0%	80% - 120%
Chromium	0.500	ND	0.499	99.8%	80% - 120%
Lead	0.500	ND	0.498	99.6%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.002	0.501	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments: QA/QC for sample 26002.

( Musteri M Wadles

# CHAIN OF CUSTODY RECORD

Client / Project Name			Project Location		(-			
CARDIN & Parmey	Harm		Double Tark	K. VARD	125	ANALYSIS / PARAMETERS	RAMETERS	
Sampler:	Ø		Client No.					Remarks
MORRIS D. YOUNG	· Your	ی	01046-003	003				
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No Conta 57 54			
1	6-35-03	16:40	20001	5043	>			
								The state of the s
Relinquished by: (Signature)	ure)		<b>`</b>	Date Time Re	Received by (Signature)	XX		Date Time
Relinquished by: (Signature			3	}	Received by: (Signature)	3		2 (2) 2)
Relinquished by: (Signature)	ure)			ď	Received by: (Signature)			
					V ROTECT TO		Samp	Sample Receipt
						· 1888		> N/A
				5796 U.S. Highway 64 Farmington, New Mexico 87401	lighway 64 v Mexico 87401		Received Intact	tg .
				C190-258 (C0C)	52-0013		Cool - Ice/Blue Ice	90

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

### **NORM SURVEY DATA SHEET**

Survey Number: <u>7-10-03-05</u>

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.08 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Sludge in Open Top Metal Pit

Comments:

Survey Conducted by: Gary W. Howe

Signature)

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

### NORM SURVEY DATA SHEET

Survey Number: <u>7-10-03-08</u>

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.08 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Barrel of Sludge W of Open Top Metal Pit

Comments:

Survey Conducted by: Gary W. Howe

May Wowe
(Signature)

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

### **NORM SURVEY DATA SHEET**

Survey Number: 7-10-03-06

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.08 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Stained Soil Around Open Top Metal Pit

Comments:

Survey Conducted by: Gary W. Howe

Y and Hove (Signature)

301 South Frontier Bloomfield, NM 87413 Phone – (505) 632-3633 Cell – (505) 330-0614 Fax – (505) 632-2359

### **NORM SURVEY DATA SHEET**

Survey Number: <u>7-10-03-07</u>

Owner: Double Tank

Location: Yard

Date: July 10, 2003

Meter Model: Wm B Johnson & Assoc Inc – GSM-110 – Serial Number: 8535

Detector Model: Wm B Johnson & Assoc Inc – GP-200 – Serial Number 4454

Battery Test: (YES)

Background Radiation Level: 0.07 mR/hr

Actual Readings: 0.07 mR/hr

Equipment information:

Manufacturer:

Serial Number:

Description: Stained Soil Pile SW of Open Top Metal Pit

Comments:

Survey Conducted by: Gary W. Howe

Yaryw Hove (Signature)

### RECEIVED

District T 1625 N. French Dr., Hobbs, NM 88240

RECEIVED

State of New Mexico

Energy Minerals and Natural Resources JUL 1 8 2003

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

District II
1301 W. Grand Avenue, Artesia, NM 88210 U 2 1 2003 Oil Conservation Division

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division

Santa Fa NIM 97505

DIVISION

DECLIEST FOR ADDROVAL TO ACCEPT SOLID WASTE

REQUEST FOR AFFROVAL TO ACCEP	I SULID WASIE
1. RCRA Exempt: Non-Exempt: 以 以の 7/16/03	4. Generator: El Paso Field Services
Verbal Approval Received: Yes No 🖂	5. Originating Site: Chaco Plant
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) SW/4 of Section 16, T26N, R12W, San Juan County	Project #97057-085
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 material is not-hazardous and the Generator's certification of origin. No waste clapproved</li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	
Soil stained with used lubricating oil.	
CWS and Analytical Attached	
Estimated Volume 600 cy Known Volume (to be entered by the operator at the end of	of the haul)cy
SIGNATURE Maste Management Facility Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 07/14/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: (505) 632-0615	
(This space for State Use)	
APPROVED BY: Demy Kent TITLE: Enviro/ E	ng/ DATE: 7/16/03
APPROVED BY: Martyn 9th. TITLE: Env. johns!	Gw/0951 DATE: 7/21/03

### **CERTIFICATE OF WASTE STATUS**

2. Destination Name:
Envirotech Soil Remediation Facility
Landfarm #2
Hilltop, New Mexico
Location of Waste (Street address &/or ULSTR):
SW/4 of Section 16, T26N, R12W, San Juan Co., NM
representative for:
Co. do hereby certify that,
overy Act (RCRA) and Environmental Protection Agency's July.
ed waste is: (Check appropriate classification)
NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification
characteristic analysis of by product identification
non-hazardous waste defined above.
mentation is attached (check appropriate items):
Other (description)
sis
· 0 R.
a sur
Environmental Scientist



### TRACE METAL ANALYSIS

Client:	EPFS	Project #:	97057-085
Sample ID:	Composite Sample	Date Reported:	07-09-03
Laboratory Number:	26054	Date Sampled:	07-08-03
Chain of Custody:	11098	Date Received:	07-08-03
Sample Matrix:	Soil	Date Analyzed:	07-09-03
Preservative:	Cool	Date Digested:	07-09-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
A	ND	0.004	<i>.</i> 0
Arsenic	ND	0.001	5.0
Barium	8.55	0.001	100
Cadmium	ND	0.001	1.0
Chromium Chromium	1.18	0.001	5.0
Lead	0.922	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:

Chaco Plant.

Analyst



## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-09-TM QA/QC	Date Reported:	07-09-03
Laboratory Number:	26054	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	07-09-03
Condition:	N/A	Date Digested:	07-09-03

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	8.55	8.53	0.2%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	1.18	1.17	0.8%	0% - 30%
Lead	ND	ND	0.001	0.922	0.920	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	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	ND	0.498	99.6%	80% - 120%
Barium	0.500	8.55	9.04	99.9%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	1.18	1.66	98.8%	80% - 120%
Lead	0.500	0.922	1.41	99.2%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	ND	0.498	99.6%	80% - 120%
Silver	0.500	ND	0.499	99.8%	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 26054.

Analyst

Mustur Mulaters
Review

# CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location	FAT		ANALYS	ANALYSIS / PARAMETERS	SE		
Sampler:	970S7-0	580-	to . sienii	Syr		Ren	Remarks	
Sample No./ Sample Sample Identification Date Time	1	Sample Matrix	StnoO	REFO				
COMPOSITE SONDY 7/803 10:00	76054	5021						
	\							
								T
			-	(				
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Relinquished by: (Signature)		Rec	Received by: (Signature)	nature)				
		S TO	0	2		Sample Receipt	ceipt	· ·
							z .	N/A/A
		5796 U.S. Highway 64 Farmington, New Mexico 87401	ghway 64 Mexico 87	401	Rece	Received Intact		
		(505) 632-0615	2-0615		Cool	Cool - Ice/Blue Ice		

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

## State of New Mexico Energy Minerals and Natural Resources

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

Form C-138 Revised March 17, 1999

JUN 2 3 2003

Oil Conservation Division

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Conoco Phillips
Verbal Approval Received: Yes □ No ☒	5. Originating Site: Federal #21
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "D" Sec 9, T27N, R8W, San Juan County	Project #96052-035
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste c approved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	11 18 70 m
Contaminated soil from an earthen pit (source of pit contents unknown).  CWS and TCLP w/o herbs & pests attached.	JUN 2003 RESERVED COM CONS. DN.
Note no herbicides and perficides. With source of continuation unknown	EEE ZUMMENT
Estimated Volume 7 cy Known Volume (to be entered by the operator at the end of	the haul)cy
SIGNATURE JULIA Waste Management Facility Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 06/17/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505) 632-0615</u>	2.5 2.5 2.6 2.6 2.6 2.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3
APPROVED BY: Manta Side TITLE: Envir	0/Eng/ DATE: 6/17/03

1. Generator Name and Address

ConocoPhillips Company

Envirotech Inc. Soil Remediation Facility



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

2. Destination Name:

**BILL RICHARDSON** 

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

## CERTIFICATE OF WASTE STATUS

5525 Highway 64	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
Federal #21 Un:+ D, Sec. 9, T27N, Row San Juan County, NM attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):  API # 30-045-24183
4. Source and Description of Waste  7 CY Soil from earther p	it (unknown source of pit contents)
Monica D. Rodahl Print Name	representative for :
ConocoPhillips Company	do hereby certify that, according to the Resource
Conservation and Recovery Act (RCRA) and Environmental Protection described waste is: (Check appropriate classification)	Agency's July, 1988, regulatory determination, the above
EXEMPT oilfield waste NON-EXEMI analysis or l	PT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or non-exempt non -haz	zardous waste defined above.
For NON-EXEMPT waste the following documentation is attached (character of MSDS InformationOther of CRA Hazardous Waste AnalysisChain of Custody	neck appropriate items): er (description
This waste is in compliance with Regulated Levels of Naturally Occ NMAC 3.1 subpart 1403.C and D.	urring Radioactive Material (NORM) pursuant to 20
Name (Original Signature): Monice D. Rodahl	
Title: HSE & Regulatory Technician	•
Date: (0-12-03	

Oil Conservation Division \* 1000 Rio Brazos Road \* Aztec, New Mexico 87410 Phone: (505) 334-6178 \* Fax (505) 334-6170 \* <a href="http://www.einnrd.state.nm.us">http://www.einnrd.state.nm.us</a>



## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:

ConocoPhillips

Project #:

96052-001

Sample ID:

1

Date Reported:

06-09-03

Lab ID#:

25818

Date Sampled:

06-04-03

Sample Matrix:

Soil

Date Sampled: Date Received:

06-06-03

Preservative:

Cool

Date Analyzed:

06-09-03

Condition:

Cool and Intact

Chain of Custody:

10980

**Parameter** 

Result

**IGNITABILITY**:

Negative

CORROSIVITY:

Negative

pH = 7.15

**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:

Federal 21.

*V.U.* Analyst

Review



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-001
Sample ID:	1	Date Reported:	06-09-03
Laboratory Number:	25818	Date Sampled:	06-04-03
Chain of Custody:	10980	Date Received:	06-06-03
Sample Matrix:	TCLP Extract	Date Extracted:	06-06-03
Preservative:	Cool	Date Analyzed:	06-09-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Federal 21.

Deu P. ap



## EPA METHOD 8040 PHENOLS

Client:	ConocoPhillips	Project #:	96052-001
Sample ID:	1	Date Reported:	06-09-03
Laboratory Number:	25818	Date Sampled:	06-04-03
Chain of Custody:	10980	Date Received:	06-06-03
Sample Matrix:	TCLP Extract	Date Extracted:	06-06-03
Preservative:	Cool	Date Analyzed:	06-09-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol	99%	
	2,4,6-Tribromophenol	99%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Federal 21.

Analyst



## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	ConocoPhillips	Project #:	96052-001
Sample ID:	1	Date Reported:	06-09-03
Laboratory Number:	25818	Date Sampled:	06-04-03
Chain of Custody:	10980	Date Received:	06-06-03
Sample Matrix:	TCLP Extract	Date Extracted:	06-06-03
Preservative:	Cool	Date Analyzed:	06-09-03
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
•		····

2-fluorobiphenyl

96%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Federal 21.

Analyst C. Offin

Misterie m Wallers



## **EPA METHOD 1311** TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-001
Sample ID:	1	Date Reported:	06-10-03
Laboratory Number:	25818	Date Sampled:	06-04-03
Chain of Custody:	10980	Date Received:	06-06-03
Sample Matrix:	TCLP Extract	Date Analyzed:	06-10-03
Preservative:	Cool	Date Extracted:	06-06-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.0
Barium	1.15	0.001	100
Cadmium	ND	0.001	1.0
Chromium	ND	0.001	5.0
Lead	ND	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 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Federal 21.

Misterie M Walles



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

		•	
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	06-09-03
Laboratory Number:	06-09-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-09-03
Condition:	N/A	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 25818.

Alem C. Cyman

/ Mistine my Walters



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

		•	
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	06-09-03
Laboratory Number:	06-06-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-09-03
Condition:	N/A	Date Extracted:	06-06-03
		Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	·ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	
	Fluorobenzene	99%	
	1,4-difluorobenzene	98%	
	4-bromochlorobenzene	98%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 25818.

Analyst C. Qui



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	06-09-03
Laboratory Number:	25818	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	06-09-03
Condition:	N/A	Date Extracted:	06-06-03

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 25818.

Analyst

/ Wristene my Walters



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	06-09-03
Laboratory Number:	25818	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	06-09-03
Condition:	N/A	Date Extracted:	06-06-03

			Spiked			SW-846
	Sample	Spike Sample		Det.		% Rec.
İ	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99.0%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	98.8%	43-143
2-Butanone (MEK)	ND	0.050	0.0498	0.0001	99.6%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100.0%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98.0%	43-143
Benzene	ND	0.050	0.0498	0.0001	99.6%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98.0%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99.0%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99.0%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99.0%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99.0%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Mistine M Wallers
Review

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 25818.

nalvst



## EPA METHOD 8040 PHENOLS

## Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	06-09-03
Laboratory Number:	06-09-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-09-03
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory
Doromotor	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 25818.

Analyst

/ Mistine m Wolles



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	06-09-03
Laboratory Number:	06-06-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-06-03
Condition:	Cool & Intact	Date Analyzed:	06-09-03
		Analysis Requested:	TCLP

	Concentration	Det. Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.020	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	99%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 25818.

Analyst .

Review



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC .	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	06-09-03
Laboratory Number:	25818	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-06-03
Condition:	Cool & Intact	Date Analyzed:	06-09-03
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
T di diffeter	(1119/11)	(1119/12)	(1119/12)	Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 25818.

Alex P. Que Review



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	06-09-03
Laboratory Number:	06-09-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	06-09-03
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

## 2-fluorobiphenyl

96%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 25818.

Analyst C. Chyline



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client: QA/QC Project #: N/A Sample ID: Date Reported: 06-09-03 Method Blank Laboratory Number: 06-06-TBN Date Sampled: N/A Sample Matrix: TCLP Extract Date Received: N/A Preservative: Cool Date Extracted: 06-06-03 Condition: Cool and Intact Date Analyzed: 06-09-03 Analysis Requested: **TCLP** 

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Danamakan	D D
-   UA/UC Acceptance Criteria	Parameter	Percent Recovery
	1 didiliotoi	i croom necovery

## 2-fluorobiphenyl

94%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Noté:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 25818.

Analyst C. Chy

Musterien Walter



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	06-09-03
Laboratory Number:	25818	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	06-06-03
Condition:	N/A	Date Analyzed:	06-09-03
		Analysis Requested:	TCLP

	Sample Result	Duplicate Result	Percent	Det. Limit
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

## 8090 Compounds

30%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 25818.

Analyst C. Oyl



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		QA/QC		Project #:			N/A	
Sample ID:		06-10-TCN	1 QA/QC	Date Repo	orted:		06-10-03	
Laboratory Number:		25818		Date Sam	pled:		N/A	
Sample Matrix:		TCLP Extra	act	Date Rece	eived:		N/A	
Analysis Requested:		TCLP Meta	als	Date Anal	yzed:		06-10-03	
Condition:		N/A		Date Extra	icted:		06-06-03	
Blank & Duplicate	Instrument	March 1996 and a first transfer		だし多数できしてはならる アルファン	Duplicat	and the figure of Allender to 1	Acceptance	
Conc. (mg/L)	Blank	Blank	Limit	ND	NID	Difference		
Arsenic	ND	ND	0.001		ND	0.0%	0% - 30%	
Barium	ND	ND	0.001	1.15	1.14	0.9%	0% - 30%	
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%	
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%	
Lead	ND	ND	0.001	ND	ND	0.0%	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	ND	ND	0.0%	0% - 30%	
Spike		Spike	Sampl	e Spiked	Percent		Acceptance	
Conc. (mg/L)		Added		Sample	Recover	У	Range	
Arsenic		0.500	ND	0.499	99.8%		80% - 120%	
Barium		0.500	1.15	1.64	99.4%		80% - 120%	
Cadmium		0.500	ND	0.498	99.6%		80% - 120%	

ND - Parameter not detected at the stated detection limit.

References:

Chromium

Mercury

Selenium

Lead

Silver

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

0.499

0.499

0.050

0.499

0.501

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

0.500

0.500

0.050

0.500

0.500

ND

ND

ND

ND

ND

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 25818.

Analyst

Misteriem Wolters

99.8%

99.8%

100.0%

99.8%

100.2%

80% - 120%

80% - 120%

80% - 120%

80% - 120%

80% - 120%

# CHAIN OF CUSTODY RECORD

ANALYSIS / PARAMETERS	Remarks							Date Time	6/6/0306:00		Sample Receipt	Z >	Received Intact	Cool - Ice/Blue Ice
ANALYSIS	to . sineris C\. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	stnoO	7					Received by: (Signature)	Received by: (Signature)	Received by: (Signature)	E C		hway 64 1exico 87401	<u> </u>
77	152-00to	Sample Matrix	Seil					Time	6/6/05 06 73 Recei	Recei	ENVIROTECH INC	2000	5796 U.S. Highway 64 Farmington, New Mexico 87401	(505) 632-0615
Project Location Fedeval	Olient No. $96053$	Lab Number	35313	-								( ERECUS.		
		Sample Time												
		Sample Date	4/4/63						(e)	re)				
Client / Project Name	Sampler:	Sample No./ Identification						Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)			, , , , , , , , , , , , , , , , , , ,	

6-20-03; 6:46AM;ENVIROTECH

RECEIVED

State of New Mexico

25 N. French Dr., Hobbs, NM 88240

Strict II

Oil Conservation Division

1000 Rio Brazzos Road, Azzec, NM 87505 IVISION

Santa Fe, NM 87505

State of New Mexico

Mexico

2 4 20 Energy Minerals and Natural Resources

Oil Conservation Division

Oil Conservation Division

Santa Fe, NM 87505 IVISION

Santa Fe, NM 87505

Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCE	PT SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator: Transwestern Pipeline Co.
Verbal Approval Received: Yes 🗌 No 🗵	5. Originating Site: San Juan Station
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Terracon
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) Lot 41 CR 4935, Bloomfield	Project #98063-018
<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 material is not-hazardous and the Generator's certification of origin. No waste approved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for tran	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Lubricating oil that leaked onto ground from turbine.	
Estimated Volumecy Known Volume (to be entered by the operator at the c	and of the haul)cy
GIGNATURE MANAGEMENT Recility Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 06/11/03
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	
APPROVED BY: Derry Toler TITLE: Envivo/	Engy DATE: 6/11/03

;5056321865

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 1625 N. Fleide S., Holos, Alexandrict 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: Transwestern Pipeline Co.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: San Juan Station
2. Management Facility Destination: Envirotech Soil Remediation F Landfarm #2	Facility, 6. Transporter: Terracon
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmingto 87401	n, NM 8. State: New Mexico
7. Location of Material (Street Address or ULSTR) Lot 41 CR 4935, Bloomfield	Project #98063-018
one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accommaterial is not-hazardous and the Generator's certification of origin. approved  All transporters must certify the wastes delivered are only those consignRIEF DESCRIPTION OF MATERIAL:	No waste classified hazardous by listing or testing will be
ubricating oil that leaked onto ground from turbine.	
WS & analytical attached.	
stimated Volumecy Known Volume (to be entered by the operation	ator at the end of the haul)cy
GNATURE AND ALL AUTOTIZED Agent TITLE: Envir	conmental Administrative Assistant DATE: 06/11/0
YPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505)	<u>632-0615</u>
This space for State Use)	
APPROVED BY: TITLE:	DATE:
APPROVED BY: Winton 5 24 TITLE: En	vironmal Geologist DATE: 6-20-03



# 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:
	Envirotech Inc. Soil Remediation Facility
Transwestern Papeline Co.	Landfarm #2
P.O. Box 399,	Hilltop, New Mexico
Bloomfield nm 87413	rimtop, ivew ivicated
3. Originating, site (name):	Location of the Waste (Street address &/or ULSTR):
Isan Juan Station	
CR 4935, Fot 41, Bloomfuld, 1	nn 81112
CR 7 133, Old 41, Dubtinfully,	UP 0140
attach list of originating sites as appropriate	
4. Source and Description of Waste	Λ 10
Subricating oil from turbi	no Illak onto ground
	0 .
	·
IX CHRIS GASTON	representative for :
Print Name	
Teranswestern Pipeline Co.	
Manaweals n i willing to.	do hereby certify that, according to the Resource
Conservation and Recovery Act (RCRA) and Environmental Protection described waste is: (Check appropriate classification)	Agency's July, 1988, regulatory determination, the above
described waste is: (Check appropriate diassification)	
EXEMPT oilfield waste   NON-EXEMP	T oilfield waste which is non-hazardous by characteristic
analysis or b	y product identification
·	•
and that nothing has been added to the exempt or non-exempt non -haze	ardous waste defined above.
For NON-EXEMPT waste the following documentation is attached (che	
	r (description
RCRA Hazardous Waste Analysis	
Chain of Custody	
This waste is in compliance with Regulated Levels of Naturally Occu	uning Dadicasting Material GIODES
NMAC 3.1 subpart 1403.C and D.	iting Radioactive Material (NORM) pursuant to 20
2 // 1	
Name (Original Signature):	
Pitle: SR OFM Tech	
Date: 6-10-03	

# ENVIROTECH LABS

## TRACE METAL ANALYSIS

Client:	Terracon	Project #:	98063-018
Sample ID:	Coolers	Date Reported:	06-05-03
Laboratory Number:	25778	Date Sampled:	06-03-03
Chain of Custody:	10970	Date Received:	06-03-03
Sample Matrix:	Soil	Date Analyzed:	06-05-03
Preservative:	Cool	Date Digested:	06-04-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
	0.026	0.004	E 0
Arsenic	0.026	0.001	5.0
Barium	0.931	0.001	100
Cadmium	0.002	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.012	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:

Transwestern Bloomfield.

Analyet

Review

# ENVIROTECH LABS

## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	06-05-TM QA/QC	Date Reported:	06-05-03
Laboratory Number:	25778	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	06-05-03
Condition:	N/A	Date Digested:	06-04-03

Elanga lovolicate		e Mainad Elank		Carrier Stanfol	2,001/2/10 2,001/2/10 2,001/2/10		es la companya
Arsenic	ND	ND	0.001	0.026	0.026	0.0%	0% - 30%
Barium	ND	ND	0.001	0.931	0.928	0.3%	0% - 30%
Cadmium	NĐ	ND	0.001	0.002	0.002	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Lead	NĐ	ND	0.001	0.001	0.001	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.00/1	0.012	0.012	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

58.VI0668			ELEMPERATE SERVICES	Service Editories
0.500	0.026	0.525	99.8%	80% - 120%
0.500	0.931	1.42	99.2%	80% - 120%
0.500	0.002	0.501	99.8%	80% - 120%
0.500	0.001	0.500	99.8%	80% - 120%
0.500	0.001	0.500	99.8%	80% - 120%
0.050	ND	0.049	98.0%	80% <b>-</b> 120%
0.500	0.012	0.511	99.8%	80% - 120%
0.500	ND	0.499	99.8%	80% - 120%
	0.500 0.500 0.500 0.500 0.050 0.500	0.500 0.931 0.500 0.002 0.500 0.001 0.500 0.001 0.050 ND 0.500 0.012	0.500     0.931     1.42       0.500     0.002     0.501       0.500     0.001     0.500       0.500     0.001     0.500       0.050     ND     0.049       0.500     0.012     0.511	0.500     0.931     1.42     99.2%       0.500     0.002     0.501     99.8%       0.500     0.001     0.500     99.8%       0.500     0.001     0.500     99.8%       0.050     ND     0.049     98.0%       0.500     0.012     0.511     99.8%

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 samples 25778, 25792 - 25795.

Analvst



## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:
Sample ID:
Lab ID#:
Sample Matrix:
Preservative:
Condition:

Terracon Coolers 25778 Soil Cool Project #:
Date Reported:
Date Sampled:
Date Received:
Date Analyzed:
Chain of Custody:

98063-018 06-04-03 06-03-03 06-03-03 06-04-03 10970

**Parameter** 

Result

**IGNITABILITY:** 

Negative

CORROSIVITY:

Negative

pH = 7.26

**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:

Transwestern Bloomfield.

Analyst

# CHAIN OF CUSTODY RECORD

10970

AAMETERS	Remarks								(4/3/03 /2:20		Sample Receipt	Y N/A	Received Intact	Cool - Ice/Blue Ice
ANALYSIS / PARAMETERS	515 t	Conts	3	\ \ -				Received by: (Signature)	Repeived by: (Signature)	Received by: (Signature)	SHIS.		nway 64 1exico 87401	0615
n esten Bloomfied	$\vec{a}$	Sample Matrix	) Jecon	7				Date Time Recei		Rece	ENVIROTECH INC	F700 110 111 1	5790 U.S. Highway 64 Farmington, New Mexico 87401	(505) 632-0615
Project Location	Client No. 987	Lab Number		8+482										
		Sample Sample Date Time	an 2 12 an	1 3 b3 11,30				(a)	re)	re)				
Client / Project Name	Sampler:	Sample No./ Identification	Pig Launcher	Coolers				Relinquished by: (Signature)	Refinquished by: (Signature)	Relinquished by: (Signature)				

٨			TRANSACTION	REPORT	_	JUN-20-2003 FR	P. 0 I 08:01
FO	R:						
RECI	EIVE						
DATE	START	SENDER	RX TIME	PAGES	TYPE	NOTE	M#
JUN-20 (	07:59 AM	5056321865	2′ 02″	7	RECE I VE	OK	

## envirotechmemo/fax

to:	Martyne Kieling
company:	nmoco
fax #:	505-476-3462
re:	C-138 for Transwestin
date:	6/20/03
pages:	(including cover page)
project:	Transurestern Bloomfield
cc:	<i>U</i>

Denny Signature, of course. Believe me, I know all about having new people doing mail! There will be another one coming for this site as soon as the sample is finished running. Het me know if you need anything relate! Thanks-

from the desk of...

en virotech in c. 5796 us highway 64 farmington, n. m. 87401 505.632.0615

505.632.1865 fax

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

State of New Mexico Energy Minerals and Natural Resources

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

RECEIVED JUN 0 6 2003

Environmental Bureau

Oil Conservation Division

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
	4. Generator: Animas Environmental
1. RCRA Exempt: ☐ Non-Exempt: ☑  Verbal Approval Received: Yes ☐ No ☑	5. Originating Site: American Energy Services- Fullerton Federal (Mark West Napi Compressor)
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: American Energy
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "P" Sec 15, T27N, R11W, SJC	Project #99083-009
<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 c approved</li> </ul> </li> </ul>	necessary chemical analysis to PROVE the lassified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for trans	sport.
Hydraulic oil stained soil.  CWS, RCI & Trace Metals analyses attached.  The ld this up, making generator sign CWS instead of sonsult.	May 2003  Hold for revised Cus
I held this up, making generator sign CWS instead of consultant Estimated Volume 4cy Known Volume (to be entered by the operator at the end of	
SIGNATURE JANUAR JAULS TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Asssitant DATE: 05/15/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	
APPROVED BY: Derry Form TITLE: Environm  APPROVED BY: TITLE: Environment	DATE: 06/06/03

"5-27-03: 2:33PM; ENVIROTECH



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

## **BILL RICHARDSON**

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

E Constitution Division

## CERTIFICATE OF WASTESTATUS

	W/2
1. Generator Name and Address	2. Destination Name:   S
american Energy Servell	Envirotech Inc. Soil Remediation Facility
John S. Tue Dea	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
	To all Man (G)
3. Originating Site (name): Julibriton Federal (Mark West Napi Co	Location of the Waste (Street address &/or ULSTR):
The 50 5 Dans and of	"P" Sec15, Ta7n,
thuy 550, 5 of Bloomfield	RIIW, SIC
attach list of originating sites as appropriate	RIIWIOJU
4. Source and Description of Waste	
Hudraulic oil Staired Soil	
0	•
Hydraulic oil staired 30il Dennis R Dudenstact	
0 00004	
in Committee All Gotte	representative for :
Pint Name	
AMERICAN FRONDE SOMEROD	
Conservation and Recovery Act (RCKA) and Environmental Protection	do hereby certify that, according to the Resource
described waste is: (Check appropriate classification)	Agency 3 July, 1766, regulatory determination, the above
EXEMPT oilfield waste X NON-EXEMP analysis or by	T oilfield waste which is non-hazardous by characteristic y product identification
and that nothing has been added to the exempt or non-exempt non -haze	ardous waste defined above.
The MONE EVENDED was to the fellowing designation is attached (ob)	pole nemerovnicte (tomo)
For NON-EXEMPT waste the following documentation is attached (che MSDS Information Other	r (description
RCRA Hazardous Waste Analysis	. (
Chain of Custody	
	D. W. A. D. C.
This waste is in compliance with Regulated Levels of Naturally Occu NMAC 3.1 subpart 1403.C and D.	rring Radioactive Material (NORM) pursuant to 20
044 010: 4	
Name (Original Signature): SUL CUBUR	
Title: Manager	
Date: 10 13/193	



## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID: Lab ID#:

Sample Matrix: Preservative:

Animas Environmental P - 1 25417 Soil

25417 Soil Cool Cool and Intact Project #:
Date Reported:
Date Sampled:
Date Received:

Date Analyzed:

Chain of Custody:

04-22-03 04-23-03 04-23-03 10841

99083-001

04-23-03

Parameter

Condition:

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

pH = 7.21

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:

MarcWest Nappi Comp.

Analyst

Reviev



### TRACE METAL ANALYSIS

Client:	Animas Environmental	Project #:	99083-001
Sample ID:	P-1	Date Reported:	04-30-03
Laboratory Number:	25417	Date Sampled:	04-22-03
Chain of Custody:	10841	Date Received:	04-23-03
Sample Matrix:	Soil	Date Analyzed:	04-30-03
Preservative:	Cool	Date Digested:	04-29-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	ND	0.001	5.0
Barium	3.08	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.827	0.001	5.0
Lead	0.736	0.001	5.0
Mercury	0.001	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:

MarcWest Nappi Comp.

Analyst

Review



## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:		QA/QC		Project #:			N/A
Sample ID:		04-30-TM	QA/QC	Date Repo	orted:		04-30-03
Laboratory Number:		25417		Date Sam	pled:		N/A
Sample Matrix:		Soil		Date Rec	eived:		N/A
Analysis Requested:		Total RCR	A Metals	Date Anal	lyzed:		04-30-03
Condition:		N/A		Date Dige	ested:		04-29-03
Blank & Duplicate	Instrumen		Detectio	n Sample	) Duplicate	% Diff.	Acceptance Range
Conc. (mg/L)	Blank (mg/l ND	_) Blank ND	Llmit 0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	3.08	3.07	0.3%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.827	0.824	0.4%	0% - 30%
Lead	ND	ND	0.001	0.736	0.737	0.1%	0% - 30%
Mercury	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Onvoi	.,,	.,,,	0.00.	.,,,		0.070	270 2270
Spike		Spike	Sample	e Spiked	d Percent		Acceptance
Conc. (mg/L)	Jav	Added		Sampl	e Recovery	1	Range
Arsenic		0.500	ND	0.499	99.8%		80% - 120%
Barium		0.500	3.08	3.56	99.4%		80% - 120%
Cadmium		0.500	ND	0.499	99.8%		80% - 120%
Chromium		0.500	0.827	1.32	99.5%		80% - 120%
Lead		0.500	0.736	1.23	99.5%		80% - 120%
Mercury		0.050	0.001	0.051	100.0%		80% - 120%
Selenium		0.500	ND	0.498	99.6%		80% - 120%
					00.00/		000/ 1000/

ND - Parameter not detected at the stated detection limit.

References:

Silver

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

ND

SW-846, USEPA, December 1996.

0.500

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

0.499

99.8%

80% - 120%

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 25417.

Analyst

# CHAIN OF CUSTODY RECORD

Sample   S	Client / Project Name		1	Project Location (M	Lec West			SYIVE	NARAM / SI	FTERS		
Rass Kenneeneer   Client No.   2   2   2   2   2   2   2   2   2	Arimas Environaria +1/	Bss Kine	ويدور	المحالة ا	comp.			Aivacio				
Sample   Sample   Sample   Time   Sample   Time   Sample   Sampl	Sampler: Rass Kenne	mer	1	Slient No.	(	tainers	J				Remarks	
2.2-0.5 6.80.0 & 94 (7.7 5.1.1 2.2 X  Date Time Received by: (Signature)  Received by: (Signatur			mple me	Lab Number	Sample Matrix	noO	· Кс					
Date Time Received by: (Signature)  Peceived by: (Signature) Received b		<del></del>		3417	51	7	<b>X</b>					
Pate Time Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) S796 U.S. Highway 64 Farmington, New Mexico 87401 Cool - Ice												
Date Time Received by: (Signature)  Received by: (Signature)  Received by: (Signature)  Received by: (Signature)  Received by: (Signature)  Received by: (Signature)  Farmington, New Mexico 87401  Cool - Ice (505) 632-0615												
Date Time Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Farmington, New Mexico 87401 (505) 632-0615												
Farmington, New Mexico 87401   Logical Learning Cool - Ice  (505) 632-0615												
Date Time Received by: (Signature)  Received by: (Signature)  Received by: (Signature)  Received by: (Signature)  Formington, New Mexico 87401  (505) 632-0615												
Environ, New Mexico 87401  Date  (4,23-1)  Acceived by: (Signature)  Received by: (Signature)  Farmington, New Mexico 87401  Cool - Ice												
Environment of the Farmington, New Mexico 87401  Caste Time Received by: (Signature)  Received b												
ENVIROTECH INC.  5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615	Relinquished by: (Signature)			3.0	Time 0 805	eived by: (S	gnature)	-3	}	*	Date 74.23.03 C	Time ofa1
ENVIROTECHING.  5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615	Relinquished by: (Signature)	}				eived by: (S	gnature)	<b></b>				
Received	Relinquished by: (Signature)				Rec	seived by: (S	gnature)					
					OVIROTE	F F	5			Sample	_	
					(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)						>	Z
			٠		5796 U.S. Hit Farmington, New	ghway 64 Mexico 8	7401			Received Intact	7	
					(505) 635	2-0615				0001 - Ice/pine to		

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

RECEIVED

Martyne Kieling

Form C-138 Revised March 17, 1999

JUN 0 6 2003

Environmental Bureau
Oil Conservation Division

Submit Original Plus 1 Copy to Appropriate District Office

1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator: Universal Compression Inc.
Verbal Approval Received: Yes No No	5. Originating Site: Washbay
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 3440 Morningstar Drive, Farmington	Project #98059-010
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 material is not-hazardous and the Generator's certification of origin. No waste approved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for tran	sport.
BRIEF DESCRIPTION OF MATERIAL:	123 RS
Washbay water and sludge.	

Con Cons. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr	
Estimated Volume 8bbl cy Known Volume (to be entered by the operator at the end of the haul)cy	,
SIGNATURE Management Facility Adthorized Agent  TITLE: Environmental Administrative Assistant	DATE: <u>05/27/03</u>
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	Š
(This space for State Use)	6/02/02

CWS, Reaffirmation Statement, and TCLP dated 9/6/02 attached.

APPROVED BY:

1. Generator Name and Address: .

UNIVERSAL COMPRESSION,



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

OIL CONSERVATION DIVIS
AZTEC DISTRICT DEFIC
1000 RIO BRAZOS ROAS
AZTEC, NEW MEXICO 874
(506) 334-6178 Fex (505)234

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBUR CABINET SECRETARY

#### **CERTIFICATE OF WASTE STATUS**

2. Destination Name:

Envirotech Soil Remediation Facility

FARMINGTON, NM 87401	Hilltop, No	ew Mexico	
3. Originating Site Inamel:	Location of the	Waste (Street address &/or ULSTR)	:
UNIVERSAL COMPRESSION, INC. 3440 MORNINGSTAR DRIVE FARMINGTON, NM 87401	(washbay)		
Attach list of engineding citas as approprieto	·		
4. Source and Description of Waste			
sludge fróm washbay			
I, Douglas N. Clapp-	e.v-	representative for:	•
UNIVERSAL Compression and Resource Conservation and Resource	INC.	do hereby certify	that,
	XEMPT oilfield waste is or by product ident r non-exempt non-haz entation is attached (c	n which is non-hazardous by characte ification zardous waste defined above.	ristic
This waste is in compliance with Regulated Levels to 20 NMAC 3.1 subpart 1403.C and D.	of Naturally Occurrin	g Radioactive Material (NORM) pur	rsuant
Name (Original Signature):	a Chygan		
Date: _5-33-03		100 mg ang ang ang ang ang ang ang ang ang an	
::	<del></del>		

#### REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP

Printed Name

Title / Agency |

Address

Signature

Date



#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:

Universal Compression

.

Sample ID:

Wash Bay Sludge

98059-010

Lab ID#:

23776

09-10-02

Sample Matrix:

Sludge

Date Sampled: 09-06-02

Preservative:

Cool

Date Received:

09-06-02 09-10-02

Condition:

Cool and Intact

Date Analyzed: Chain of Custody:

Date Reported:

Project #:

10222

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

**Negative** 

pH = 6.97

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:

3440 Morning Star.

Analyst

Review



#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

		•
Universal Compression	Project #:	98059-010
Wash Bay Sludge	Date Reported:	09-23-02
23776	Date Sampled:	09-06-02
10222	Date Received:	09-06-02
TCLP Extract	Date Extracted:	09-09-02
Cool	Date Analyzed:	09-23-02
Cool & Intact	Analysis Requested:	TCLP
	Wash Bay Sludge 23776 10222 TCLP Extract Cool	Wash Bay Sludge Date Reported: 23776 Date Sampled: 10222 Date Received: TCLP Extract Date Extracted: Cool Date Analyzed:

	Concentration	Detection Limit	Regulatory Limits
Davisantav	,	•	
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0018	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0022	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

3440 Morning Star.

Analyst C. Que

Printer of Walter



#### EPA METHOD 8040 PHENOLS

		•	
Client:	Universal Compression	Project #:	98059-01 <b>0</b>
Sample ID:	Wash Bay Sludge	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	09-06-02
Chain of Custody:	10222	Date Received:	09-06-02
Sample Matrix:	TCLP Extract	Date Extracted:	09-09-02
Preservative:	Cool	Date Analyzed:	09-23-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
•		
	2-Fluorophenol	99%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

3440 Morning Star.

Analyst



## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Universal Compression	Project #:	98059-010
Sample ID:	Wash Bay Sludge	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	09-06-02
Chain of Custody:	10222	Date Received:	09-06-02
Sample Matrix:	TCLP Extract	Date Extracted:	09-09-02
Preservative:	Cool	Date Analyzed:	09-23-02
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND ,	0.020	3.0
Nitrobenzene	0.115	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	0.051	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

3440 Morning Star.

Analyst C. Que

Pristre on Walters



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Universal Compression	Project #:	98059-010
Wash Bay Sludge	Date Reported:	09-23-02
23776	Date Sampled:	. 09-06-02
10222	Date Received:	09-06-02
TCLP Extract	Date Analyzed:	09-23-02
Cool	Date Extracted:	09-11-02
Cool & Intact	Analysis Needed:	TCLP metals
	Wash Bay Sludge 23776 10222 TCLP Extract Cool	Wash Bay Sludge Date Reported: 23776 Date Sampled: 10222 Date Received: TCLP Extract Date Analyzed: Cool Date Extracted:

:		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
			•
Arsenic	0.016	0.001	5.0
Barium	2.84	0.001	100
Cadmium	0.004	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.002	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.004	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

3440 Morning Star.

Analyst

Prister of Warley



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative:	QA/QC Laboratory Blank 09-23-TCV Water N/A	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed:	N/A 09-23-02 N/A N/A 09-23-02
Condition:	N/A	Analysis Requested:	09-23-02 TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	. ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 23776, 23837 - 23838.

Analyst C. Qu

Mistem of Walles
Review



#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-23-02
Laboratory Number:	0909-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-23-02
Condition:	N/A	Date Extracted:	09-09-02
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits
1 arameter	(1119/2)	(mg/L)	(mg/ <b>L</b> )
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	
	Fluorobenzene	99%	<del></del> -
	1,4-difluorobenzene	98%	
	4-bromochlorobenzene	98%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 23776, 23837 - 23838.

Analyst C. Ophnan



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client: Sample ID: Laboratory Number: Sample Matrix:	QA/QC Matrix Duplicate 23776 TCLP Extract	Project #: Date Reported: Date Sampled: Date Received:	N/A 09-23-02 N/A N/A
Analysis Requested: Condition:	TCLP N/A	Date Analyzed: Date Extracted:	09-23-02 09-09-02

Duplicate				
•	Sample	Sample	Detection	
	Result	Result	Limits	Percent 1
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0018	0.0018	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0022	0.0022	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ŅD	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples 23776, 23837 - 23838.

Analyst

Review Deles



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-23-02
Condition:	N/A	Date Extracted:	09-09-02

			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec. Accept.
	Result	Added	Result	Limit	Percent	
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0018	0.050	0.0513	0.0001	99%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	. ND	0.050	0.0490	0.0001	98%	43-143
Benzene	0.0022	0.050	0.0517	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples 23776, 23837 - 23838.

Review Review



### PHENOLS

#### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-23-02
Laboratory Number:	09-23-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-23-02
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory	
	Concentration	Limit	Limit	-
Parameter	(mg/L)	(mg/L)	(mg/L)	
o-Cresol	ND	0.020	200	
p,m-Cresol	ND	0.040	200	
2,4,6-Trichlorophenol	ND	0.020	2.0	
2,4,5-Trichlorophenol	ND	0.020	400	
Pentachlorophenol	ND-	0.020	100	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol 2,4,6-tribromophenol	98 % 99 %

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 23776.

Analyst C. Carlina



# EPA METHOD 8040 PHENOLS Quality Assurance Report

	0.4/0.0	D :	
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-23-02
Laboratory Number:	09-09-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-09-02
Condition:	Cool & Intact	Date Analyzed:	09-23-02
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
		:
	2-Fluorophenol	99%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 23776.

Analyst



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-09-02
Condition:	Cool & Intact	Date Analyzed:	09-23-02
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	· ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND <sup>*</sup>	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
1		
	8040 Compounds	30.0%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

Comments:

QA/QC for sample 23776.

Analyst C. Ogline



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-23-02
Laboratory Number:	09-23-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-23-02
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND.	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 23776.

Analyst C. Quin

Mister of Walters



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-23-02
Laboratory Number:	09-09-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-09-02
Condition:	Cool and Intact	Date Analyzed:	09-23-02
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	•	

#### 2-fluorobiphenyl

101%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 23776.

Analyst

Review Worlders



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	09-09-02
Condition:	N/A	Date Analyzed:	09-23-02
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit '(mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	0.115	0.114	0.9%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	0.051	0.051	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

#### 8090 Compounds

30%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 23776.

Analyst C. Que

Mister Malters
Review



#### **EPA METHOD 1311 TOXICITY CHARACTERISTIC** LEACHING PROCEDURE TRACE METAL ANALYSIS **Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	09-23-TCM QA/QC	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	09-23-02
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detectio Limit	920 Yerzanio de Depart	e Duplicate	e % Difference	Acceptance Range
Arsenic	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%
Barium	ND	ND	0.001	2.84	2.82	0.7%	0% - 30%
Cadmium	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Lead	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND ·	0.0%	0% - 30%
Selenium	ND .	ND	0.001	0.004	0.004	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spike	Sample	e Spiked	Percent	Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.500	0.016	0.515	99.8%	80% - 120%
Barium	0.500	2.84	3.32	99.4%	80% - 120%
Cadmium	0.500	0.004	0.503	99.8%	80% - 120%
Chromium	0.500	0.001	0.500	99.8%	80% - 120%
Lead	0.500	0.002	0.501	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.004	0.503	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 23776.

Analyst

# CHAIN OF CUSTODY RECORD

Olicin / Light Ivanie	Project Location					
(Wiversol Compression	34to Horming S	ming steel.	•	ANALYSIS / PARAMETERS	AMETERS	
1	Client No.		sı			Remarks
HARLER M. Brown	98059	3-010	to .of taine			
Sample No./ Sample Sample Identification Date Time	e Lab Number	Sample Matrix				
War Bay 9.6.02 14:30	30 23776	5(J.	_			
7		0				
@/>		Date Time Reg	Received by: (Signature)	J. W.		Date Time
Relinquished by: (Signature)			Received by: (Signature)	6		0 kg (0 kg)
Relinquished by: (Signature)		Rec	Received by: (Signature)			
		ENVIROTE	NIROTECH INC.		Samp	Sample Receipt
		The state of the s				Y N/A
		5796 U.S. Highway 64 Farmington, New Mexico 87401	ghway 64 Mexico 87401		Received Intact	3t /
		(505) 632-0615	-0615		Cool - Ice/Blue Ice	) eol

District I 1625 N. French Dr., Hobbs, NM 88240

(This space for State Use)

APPROVED BY:

APPROVED BY:

RECEIVED

State of New Mexico

Energy Minerals and Natural Resources ECEIVED

Form C-138 Revised March 17, 1999

District II
1301 W. Grand Avenue, Artesia, NM 8 4AY 1 2 2003
District III

District III
1000 Rio Brazos Road, Aztec, NM 8 Erroironmental Bureau District IV Oil Conservation Division

District IV Oil Conservation Division

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

MAY 0 9 2003

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLIDIWASTE
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Hanover Compression
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Wash Bay
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 1280 Troy King Road, Farmington	Project #99043-004
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste capproved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Wash bay sump sludge.	450789m
TCLP dated 8/26/02, CWS, & Re-affirmation attached.	MAY 2003
Estimated Volume 4 bbl cy Known Volume (to be entered by the operator at the en	d of the haul)cy
SIGNATURE Management Facility Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 04/30/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	50 50 50 50 50 50



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Jonna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

#### CERTIFICATE OF WASTE STATUS

	1. Generator Name and Address	2. Destination Name:
	HANOVER COMPRESSOR	Envirotech Inc. Soil Remediation Facility
	1280 TROY KING KD.	Landfarm #2
	HANDUER COMPRESSOR 1280 TROY KING RD. FARMINGTON, NM.	Hilltop, New Mexico
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
•	SAME AS ABOVE	1280 TROY KING RD FARMINGTON, NM 87401
	attach list of originating sites as appropriate	
	4. Source and Description of Waste	F. 6. 7°0P
	WASH BAY SUMP SLUDGE _ CONTAMINATED SOI	MAY 2503
!,	Bryan RICHARDSON	representative for :
	I lift I water	
	HANOVER Compressor vation and Recovery Act (RCRA) and Environmental Protection	do hereby certify that, according to the Resource
Conserv	vation and Recovery Act (RCRA) and Environmental Protection	n Agency's July, 1988, regulatory determination, the above
describe	ed waste is: (Check appropriate classification)	
EX		PT oilfield waste which is non-hazardous by characteristic by product identification
and tha	t nothing has been added to the exempt or non-exempt non -he	zardous waste defined above.
for NO	N-EXEMPT waste the following documentation is attached (c MSDS Information	neck appropriate items):
	RCRA Hazardous Waste Analysis Chain of Custody	ner (description  OF WASTE STATUS
	iste is in compliance with Regulated Levels of Naturally Oct 3.1 subpart 1403.C and D.	curring Radioactive Material (NORM) pursuant to 20
Vame (	Original Signature): BDRM	
Title:	HSE COORDINGTOR	
Date:	4-30-03	
	Oil Conservation Division * 1000 Rio I	Brazos Road * Aztec, New Mexico 87410
		4-6170 http://www.emnrd.state.nm.us

APR-29-2003 16:23

5056321865

97%

P.02



#### REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of 10r	DIAUTO
Printed Nan	TO BRYAN RICHARDSON
Title / Agend	CY HSE COOPDINATOR
Address	Hanover
	1280 TROY KING 8740
Signature	BORLL
Date	4-30-03

8/26/12

Former POI Yard

(Bought by Handver Comp.)

99043-004

#### Hall Environmental Analysis Laboratory

**Date:** 04-Sep-02

CLIENT:

Envirotech

Lab Order:

0208155

Client Sample ID: 23644

Collection Date: 8/26/02 10:15:00 AM

Project:

Hanover Compression

Lab ID:

0208155-01

Matrix: SOIL

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
VOLATILES, TCLP LEACHED					Analyst: JDC
Benzene	ND	0.50	mg/L	1	8/29/02
2-Butanone	ND	200	mg/L	1	8/29/02
Carbon Tetrachloride	ND	0.50	mg/L	1	8/29/02
Chlorobenzene	ND	100	mg/L	1	8/29/02
Chloroform	ND	6.0	mg/L	1	8/29/02
1,4-Dichlorobenzene	ND	7.5	mg/L	1	8/29/02
1,2-Dichloroethane (EDC)	ND	0.50	mg/L	1	8/29/02
1,1-Dichloroethene	ND	0.70	mg/L	1	8/29/02
Hexachlorobutadiene	ND	0.50	mg/L	1	8/29/02
Tetrachloroethene (PCE)	ND	0.70	mg/L	1	8/29/02
Trichloroethene (TCE)	ND	0.50	mg/L	1	8/29/02
Vinyl chloride	ND	0.20	mg/L	1	8/29/02
Surr: 1,2-Dichloroethane-d4	97.0	70-130	%REC	1	8/29/02
Surr: 4-Bromofluorobenzene	97.6	70-130	%REC	1	8/29/02
Surr: Dibromofluoromethane	101	70-130	%REC	1	8/29/02
Surr: Toluene-d8	98.1	70-130	%REC	1	8/29/02
SEMIVOLATILES, TCLP LEACHED					Analyst: CS
2,4,5-Trichlorophenol	ND	400	mg/L	1	8/30/02
2,4,6-Trichlorophenol	ND	2.00	mg/L	1	8/30/02
2,4-Dinitrotoluene	ND	0.130	mg/L	· 1	8/30/02
Cresols, Total	ND	200	mg/L	1	8/30/02
Hexachlorobenzene	ND	0.130	mg/L	1	8/30/02
Hexachlorobutadiene	ND	0.500	mg/L	. 1	8/30/02
Hexachloroethane	ND	3.00	mg/L	1	8/30/02
Nitrobenzene	ND	2.00	mg/L	1	8/30/02
Pentachlorophenol	ND	100	mg/L	1	8/30/02
Pyridine	ND	5.00	mg/L	1	8/30/02
Surr: 2,4,6-Tribromophenol	85.9	0-169	%REC	1	8/30/02
Surr: 2-Fluorobiphenyl	57.3	6-118	%REC	1	8/30/02
Surr: 2-Fluorophenol	43.0	0-103	%REC	1	8/30/02
Surr: 4-Terphenyl-d14	40.8	3-135	%REC	1 -	8/30/02
Surr: Nitrobenzene-d5	59.1	8-115	%REC	1	8/30/02
Surr: Phenol-d6	33.5	0-127	%REC	1	8/30/02
MERCURY, TCLP LEACHED					Analyst: MAP
Mercury	ND	0.020	mg/L	1	8/28/02
PA METHOD 6010C: TCLP METALS					Analyst: NMO
Arsenic	ND	5.0	mg/L	1	8/29/02 10:06:08 AM
Barium	ND	100	mg/L	1	8/29/02 9:10:34 AM
Cadmium	ND	1.0	mg/L	1	8/29/02 9:10:34 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

Page 1 of 2

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

#### Hall Environmental Analysis Laboratory

**Date:** 04-Sep-02

CLIENT:

Envirotech

0208155

Client Sample ID: 23644

Lab Order:

Hanover Compression

Collection Date: 8/26/02 10:15:00 AM

Project: Lab ID:

0208155-01

Matrix: SOIL

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
Chromium	ND	5.0	mg/L	. 1	8/29/02 9:10:34 AM
Lead	ND	5.0	mg/L	1	8/29/02 9:10:34 AM
Selenium	ND	1.0	mg/L	1	8/29/02 9:10:34 AM
Silver	ND	5.0	mg/L	1	8/29/02 11:23:39 AM

R - RPD outside accepted recovery limits

E - Value above quantitation range

# Hall Environmental Analysis Laboratory

QC SUMMARY REPORT Hanover Compression Envirotech 0208155 Work Order: CLIENT: Project:

Method Blank

Date: 05-Sep-02

Sample ID <b>5mi rb</b> Client ID:	Batch ID: 2427	Test Code Run ID:	Test Code: SW1311/8260 Units: mg/L Run ID: NEPTUNE_020829A	Units: mg/L 20829A		Analysis SeqNo:	Analysis Date 8/29/2002 SeqNo: 128279	2	Prep Date	te .	
Analyte	Result	Pal	SPK value	SPK value SPK Ref Val	%REC		LowLimit HighLimit RPD Ref Val	'D Ref Val	%RPD	RPDLimit	Qual
Benzene	QN	0.50									
2-Butanone	QN	200									
Carbon Tetrachloride	QN	0.50									
Chlorobenzene	Q	100									
Chloroform	Q	0.9									
1,4-Dichlorobenzene	QN	7.5									
1,2-Dichloroethane (EDC)	Q	0.50									
1,1-Dichloroethene	QN	0.70									
Hexachlorobutadiene	QN	0.50									
Tetrachloroethene (PCE)	QV	0.70									
Trichloroethene (TCE)	QN	0.50									
Vinyl chloride	Q	0.20									
Surr: 1,2-Dichloroethane-d4	0.009406	0	0.01	0	94.1	70	130	0			
Surr: 4-Bromofluorobenzene	0.009888	0	0.01	0	98.9	70	130	0		•	
Surr: Dibromofluoromethane	0.009984	0	0.01	0	93.8	7	130	0			
Surr: Toluene-d8	0.01021	0	0.01	0	102	70	130	0			

B - Analyte detected in the associated Method Blank S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

**QC SUMMARY REPORT** 

Method Blank

Hanover Compression Project:

Envirotech 0208155

CLIENT:

Work Order:

					N . W						
Sample ID mb-2434	Batch ID: 2434	Test Code:	Test Code: SW1311/8270 Units: mg/L	Units: mg/L		Analysis	Analysis Date 8/30/2002	1002	Prep Da	Prep Date 8/28/2002	
Client ID:		Run ID:	ELMO_020829A	Α(		SeqNo:	128420				
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	QN	400									
2,4,6-Trichlorophenol	QN	2.0									
2,4-Dinitrotoluene	QN	0.13									
Cresols, Total	QN	200									
Hexachlorobenzene	ON	0.13									
Hexachlorobutadiene	QN	0.50									
Hexachloroethane	QN	3.0									
Nitrobenzene	Q	2.0	٠								
Pentachlorophenol	QN	100								•	
Pyridine	QN	5.0									
Surr: 2,4,6-Tribromophenol	115.5	0	200	0	57.7	0	169	0			
Surr: 2-Fluorobiphenyl	46.65	0	100	0	46.6	· <b>o</b>	118	0			
Surr: 2-Fluorophenol	86.81	0	200	0	43.4	0	103	0			
Surr: 4-Terphenyl-d14	42.14	0	100	0	42.1	က	135	0			
Surr: Nitrobenzene-d5	54.92	0	100	0	54.9	80	115	0			
Surr: Phenol-d6	57.11	0	200	0	28.6	0	127	0	•		
Sample ID MB-2432	Batch ID: 2432	Test Code	Test Code: SW7470	Units: mg/L		Analysis	Analysis Date 8/28/2002	2002	Prep D	Prep Date 8/28/2002	~
Client ID:		Run ID:	MI-LA254_020828A	0828A		SeqNo:	127621	Σ			
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	QN	0.020									

ND - Not Detected at the Reporting Limit Qualifiers:

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank 3

Analysis Date 8/29/2002 11:12:29 AM Analysis Date 8/29/2002 9:59:01 AM Analysis Date 8/29/2002 8:52:50 AM HighLimit RPD Ref Val HighLimit RPD Ref Val HighLimit RPD Ref Val 128151 128162 128139 SeqNo: SeqNo: SedNo: LowLimit LowLimit LowLimit %REC %REC %REC

Test Code: SW1311/6010 Units: mg/L

Batch ID: 2431

Sample ID MB-2431

Client ID:

Analyte

Silver

ICP\_020829B

Run ID:

SPK value SPK Ref Val

Б

Result 9

5.0

Prep Date 8/28/2002

Qual

%RPD RPDLimit

Prep Date 8/28/2002

Test Code: SW1311/6010 Units: mg/L

Batch ID: 2431

Sample ID MB-2431

Client ID:

Analyte

Arsenic

5.0 5.0

99999

Chromium

Selenium

Lead

Cadmium

Barium

1.0

9

ICP\_020829B

Run (D:

SPK value SPK Ref Val

PQL

Result

5.0

2

Qual

**RPDLimit** 

%RPD

Method Blank

Prep Date 8/28/2002

Fest Code: SW1311/6010 Units: mg/L

Batch ID: 2431

Sample ID MB-2431

Client ID:

Analyte

Hanover Compression

Envirotech 0208155

CLIENT:

Work Order:

Project:

ICP\_020829B SPK value

SPK Ref Val

В Run ID:

Result

**QC SUMMARY REPORT** 

Qual

**RPDLimit** 

%RPD

ND - Not Detected at the Reporting Limit

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Sample Matrix Spike

QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory

Envirotech 0208155 Work Order: CLIENT:

Project:

Hanover Compression

ON A PO ODOGATE OA A M.C.			C1477470	Inite:		oic, food	0,000	ç	50	60,00,00	
Sample ID: UZU8155-U1A MS	Batch ID: 2432	est Code:	SW/4/0	Office: mg/L		Analysis	Arialysis Date: 8/28/02	7	Freb Da	Prep Date: 8/28/02	
Client ID: 23644		Run ID:	MI-LA254_020828A	1828A		SeqNo:	127625	10			
Analyte	Result	Pol	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit	Qual
Mercury	0.00525	0.00020	0.005	0	105	80	120	0			
Sample ID: 0208155-01A MSD Batch ID: 2432	Batch ID: 2432	Test Code:	SW7470	Units: mg/L		Analysis	Analysis Date: 8/28/02	20	Prep Da	Prep Date: 8/28/02	
Client ID: 23644		Run ID:	MI-LA254_020828A	0828A		SedNo:	127626	9			
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD	%RPD RPDLimit Qual	Qual
Mercury	0.00564	0.00020	0.005	0	113	80	120	0.00525	7.16	20	]

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

Qualifiers:

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank R - RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory

1

Date: 05-Sep-02

Envirotech 0208155 Work Order:

CLIENT:

Hanover Compression Project:

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID 100ng lcs Client ID:	Batch ID: 2427	Test Code: SW8260B Run ID: NEPTUNE	SW8260B Units	Units: µg/L 0829A		Analysis SeqNo:	Analysis Date 8/29/2002 SeqNo: 128295	2002	Prep Date	te	
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.27	1.0	20	0	101	78.7	122	0			
Toluene	22.08	1.0	20	0	110	87.7	122	0			
Chlorobenzene	25.13	1.0	20	0	126	85.6	136	0			
1,1-Dichloroethene	17.49	1.0	20	0	87.4	7.07	117	0			
Trichloroethene (TCE)	20.59	1.0	20	0	103	82.1	125	0			
Sample ID LCS-2434	Batch ID: 2434	Test Code:	Test Code: SW1311/8270 Units: mg/L	Units: mg/L		Analysis	Analysis Date 8/30/2002	2002	Prep Da	Prep Date 8/28/2002	
Client ID:		Run ID:	ELMO_020829A	<b>9</b> 6		SeqNo:	129219	<u>6</u>			
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	44.56	400	100	0	44.6	9.57	92.2	0			7
2,4,6-Trichlorophenol	38.62	2.0	100	0	38.6	13	85.4	0			
2,4-Dinitrotoluene	56.2	0.13	100	0	56.2	21.5	83	0			
Cresols, Total	124.4	200	300	0	41.5	19.2	98.2	0	_		٦
Hexachlorobenzene	81.22	0.13	100	0	81.2	22.9	144	0			
Hexachlorobutadiene	40	0.50	100	0	40.0	10.1	86	0			
Hexachloroethane	42.18	3.0	100	0	42.2	15.2	84.1	0			
Nitrobenzene	53.92	2.0	100	0	53.9	12.5	105	0			
Pentachlorophenol	61.8	100	100	0	61.8	32.8	89.9	0			7

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

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

B - Analyte detected in the associated Method Blank

CLIENT: Envirotech

Work Order: 0208155

Hanover Compression

Project:

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID LCSD-2434	Batch ID: 2434	Test Code:	Test Code: SW1311/8270 Units: mg/L	Units: mg/L		Analysis	Analysis Date 8/30/2002	202	Prep D	Prep Date 8/28/2002	
Client ID:		Run ID:	ELMO_020829A	Ą		SeqNo:	129223				
Analyte	Result	PoL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit F	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	53.82	400	100	0	53.8	9.57	92.2	0			-
2,4,6-Trichlorophenol	48.76	2.0	100	0	48.8	13	85.4	0			
2,4-Dinitrotoluene	59.8	0.13	100	0	59.8	21.5	88	0			
Cresols, Total	136.9	200	300	0	45.6	19.2	98.2	0			ה
Hexachlorobenzene	98.98	0.13	100	0	86.9	22.9	144	0			
Hexachlorobutadiene	45.48	0.50	100	0	45.5	10.1	86	0			
Hexachloroethane	45.64	3.0	100	0	45.6	15.2	84.1	0			
Nitrobenzene	55.3	2.0	100	0	55.3	12.5	105	0			
Pentachlorophenol	71.5	100	100	0	71.5	32.8	89.9	0			_
Sample ID LCS-2432	Batch ID: 2432	Test Code: SW7470	SW7470	Units: mg/L		Analysis	Analysis Date 8/28/2002	002	Prep D	Prep Date 8/28/2002	
Client ID:		Run ID:	MI-LA254_020828A	3828A		SeqNo:	127622	01			
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004995	0.00020	0.005	0	6.66	8	120	0			
Sample ID LCS-2431	Batch ID: 2431	Test Code:	Test Code: SW1311/6010 Units: mg/L	Units: mg/L		Analysis	5 Date 8/29/2	Analysis Date 8/29/2002 8:59:25 AM	Prep [	Prep Date 8/28/2002	
Client ID:		Run ID:	ICP_020829B			SeqNo:	128140				
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	10.33	5.0	10	0	103	70	130	0			
Cadmium	9.808	1.0	10	0	98.1	2	130	0			
Chromium	10.27	5.0	01	0	103	20	130	0			
Lead	9.885	5.0	10	0	98.8	20	130	0			
Selenium	8.54	1.0	10	0	85.4	70	130	0			

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

Qualifiers:

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

cepted recovery limits B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Laboratory Control Spike - generic

Project: Hanover Compression

Envirotech 0208155

CLIENT:

Work Order:

Sample ID LCS-2431	Batch ID: 2431	Test Code:	le: SW1311/6010 Units: mg/L	Units: mg/L		Analysis	Analysis Date 8/29/2002 10:00:20 AM	2 10:00:20 AM	Prep Date 8/28/2002	3/28/2002
Client ID:		Run ID:	ICP_020829B			SeqNo:	128152	٠		
Analyte	Result	Pol	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	D Ref Val	%RPD RPDLimit	DLimit Qual
Arsenic	9.318	5.0	10	0	93.2	70	130	0		
Sample ID LCS-2431	Batch ID: 2431	Test Code:	Test Code: SW1311/6010 Units: mg/L	Units: mg/L		Analysis	Analysis Date 8/29/2002 11:14:07 AM	2 11:14:07 AM	Prep Date 8/28/2002	8/28/2002
Client ID:		Run ID:	ICP_020829B			SeqNo:	128163			•
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	'D Ref Val	%RPD RP	RPDLimit Qual
Silver	3.368	1.0	3.5	0	96.2	70	130	0		
Sample ID LCSD-2431	Batch ID: 2431	Test Code	Test Code: SW1311/6010 Units: mg/L	Units: mg/L		Analysis	Analysis Date 8/29/2002 11:15:19 AM	2 11:15:19 AM	Prep Date 8/28/2002	8/28/2002
Client ID:		Run ID:	ICP_020829B			SeqNo:	128164		,	
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	'D Ref Val	%RPD RP	RPDLimit Qual
Silver	3.365	1.0	3.5	0	96.1	70	130	3.368	0.101	30

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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

B - Analyte detected in the associated Method Blank

# CHAIN OF CUSTODY RECORD

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 1220 S. St. Francis Dr., Santa Fe, NM 87505

(This space for State Use)

APPROVED BY:

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

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

#### RECEIVED

Environmental Bureau

Oil Conservation Division

Form C-138 Revised March 17, 1999 MAY 1 2 2003

DATE: 05/0

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE		
1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator: Compressor Systems Inc.		
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: NEBU 412		
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Paul & Sons		
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico		
7. Location of Material (Street Address or ULSTR) Sect 29, T31N, R7W, 840' FSL, 1725' FWL	Project #01038-010		
9. <u>Circle One</u> :			
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste c approved</li> </ul>	ecessary chemical analysis to PROVE the		
All transporters must certify the wastes delivered are only those consigned for transport.			
BRIEF DESCRIPTION OF MATERIAL:			
Soil contaminated when screw compressor oil leaked onto the ground due t	so a faulty <del>scale</del> .		
CWS & MSDS attached.	MAY 2003		
Estimated Volume 8 cy Known Volume (to be entered by the operator at the end of the control of t	the haul)cy		
SIGNATURE Management Facility Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 04/23/03		
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615			

NOILIVID NOITAVESSKOD JIO AZTEG DISTRICT OFFICE 1000 RIO BRAZOS ROLD AZTEC, NEW MEXICO 87410 (506) 334-8178 Pex (505)374-6176

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE	OF WASTE STATUS
	MAY 2003
1. Generator Name and Address: COMPRESSON SYSTEMS INC 5995 U3 HWY 64 CARMENGION N.M	2. Destination Name:  ENVIROTECH INC.
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
NEBU 412 500	129 TWN 3/N 840'FSL 1725FWC
	W 3/07945
Attach list of originating elem as appropriate  4. Source and Description of Waste  SCREW COMPRESSOR OF LEAKE	OUT ON GROUND FROM FAULTY SCAL
(Print Name)  (Print Name)  Systems  Sy	overy Act (RCRA) and Environmental Protection Agency's July
1988, regulatory determination, the above describ  EXEMPT cilfield waste  NON-E  analysi	SEMPT cilfield waste which is non-hazardous by characteristic is or by product identification
and that nothing has been added to the exempt o	r non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following docum  MSDS Information  RCRA Hazardous Waste Analysi  Chain of Custody	nentation is attached (check appropriate items):  Other (description):
This weste is in compliance with Regulated Levels to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature): Linda  Title: Server Scares Tec	
Date: <u>4/23/03</u>	
May, 23 2001 08:16AM P3	FAX NO.:





### **Material Safety Data Sheet**

Page 1 of 7

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### CHEVRON HDAX NG Screw Compressor Oil

PRODUCT NUMBER(S): CPS255204 CPS255205 SYNONYM: CHEVRON HDAX NG Screw Compressor 011 ISO 150 CHEVRON HDAX NG Screw Compressor 011 ISO 68

#### COMPANY IDENTIFICATION

Chevron Products Company Global Lubricants 555 Market St. Room 803 San Francisco, CA 94105-2870

#### EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or (510)231-0623 (International) TRANSPORTATION (24 hr): CHEMTREC (800)424-9300 or (703)527-3887 Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500

Environmental, Safety, & Health Info: (415) 894-0703

Product Information: (800) 582-3835

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEVRON HDAX NG Screw Compressor Oil 100.0 %

CONTAINING

COMPONENTS AMOUNT LIMIT/QTY AGENCY/TYPE

HYDROTREATED DIST., HVY PARA

Chemical Name: DISTILLATES, HYDROTREATED HEAVY PARAFFINIC

CAS64742547 > 80.00% 5 mg/m3 (mist)

10 mg/m3 (mist)

ACGIH STEL 5 mg/m3 (mist) OSHA PEL

ACGIH TWA

ADDITIVES

< 20.00%

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control

Revision Number: 0 Ravision Date: 10/25/97 MSDS Number: 006852

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### CHEVRON HDAX NG Screw Compressor Oil

Page 2 of 7

Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

### 3. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

EYE:

Not expected to cause prolonged or significant eye irritation.

SKIN:

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

INGESTION:

Not expected to be harmful if swallowed.

INHALATION:

Contains a petroleum-based mineral oil that may cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of airborne levels above the recommended exposure limit.

### 4. FIRST AID MEASURES

### EYE:

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.

SKIN:

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.

INGESTION:

No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person. INHALATION:

If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

### 5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

Classification (29 CFR 1910,1200): Not classified by OSHA as flammable or

Ravision Number: 0

Revision Date: 10/25/97

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### CHEVRON HOAK NG Screw Compressor Oll

Page 4 of 7

possible, wear safety glasses with side shields as a good safety practice. SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Viton> <Nitrile> <Silver Shield> <4H> RESPIRATORY PROTECTION:

No special respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended exposure limits. If not, select a NIOSH/MSHA approved respirator that provides adequate protection from concentrations of this material. Use the following elements for air-purifying respirators: particulate.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Liquid.

(AIR=1):

pH:

NDA NA

VAPOR PRESSURE:

VAPOR DENSITY

NA

BOILING POINT:

NDA

FREEZING POINT:

NDA

MELTING POINT:

NA

SOLUBILITY:

Soluble in hydrocarbon solvents; insoluble in water.

SPECIFIC GRAVITY:

NDA

DENSITY:

NDA

EVAPORATION RATE: VISCOSITY:

NA 61.2 - 135 cSt @ 40C (Min.)

PERCENT VOLATILE

(VOL):

NA

### 10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

### 11. TOXICOLOGICAL INFORMATION

Ravision Number: 0

Ravision Date: 10/25/97

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Compressor Oil

Page 5 of 7

EYE EFFECTS:

The eye irritation hazard is based on data for a similar material.

The skin irritation hazard is based on data for a similar material.

ACUTE ORAL EFFECTS:

The acute oral toxicity is based on data for a similar material.

ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on data for a similar material.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

### 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

This material is not expected to be harmful to aquatic organisms.

ENVIRONMENTAL FATE:

This material is not expected to be readily biodegradable.

### 13. DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

### 14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE

FEDERAL DOT

DOT HAZARD CLASS: NOT APPLICABLE

DOT IDENTIFICATION NUMBER: NOT APPLICABLE

DOT PACKING GROUP: NOT APPLICABLE

Revision Number: 0

Revision Date: 10/25/97

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### 15. REGULATORY INFORMATION

### SARA 311 CATEGORIES:

- 1. Immediate (Acute) Health Effects: NO
- 2. Delayed (Chronic) Health Effects: NO
- 3. Fire Hazard: NO
- 4. Sudden Release of Pressure Hazard: NO
- 5. Reactivity Hazard: NO

### REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ·RTK	22=TSCA Sect 5(a)(2)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=NTP Carcinogen	13=MN RTK	24-TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26mTSCA Sect 8(d)
06=IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07=IARC Group 2A	17-osha pel	28-Canadian WHMIS
08=IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
09=SARA 302/304	19=Chevron TWA	30=Chevron STEL
10=PA RTK	20-EPA Carcinogen	

The following components of this material are found on the regulatory lists indicated.

DISTILLATES, HYDROTREATED HEAVY PARAFFINIC is found on lists: 14,15,17,

### EU RISK AND SAFETY STATEMENTS:

May cause long-term adverse effects in the aquatic environment.

### NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL

### WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

### 16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0; HMIS RATINGS: Health 1; Flammability 1; Reactivity 0; (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

### REVISION STATEMENT:

This is a new Material Safety Data Sheet

Revision Number: 0 Revision Date: 10/25/97 MSDS Number: 006852

Page 7 of 7

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value

TWA - Time Weighted Average

STEL - Short-term Exposure Limit

TPQ - Threshold Planning Quantity

- Reportable Quantity RQ

PEL - Permissible Exposure Limit

C - Ceiling Limit

CAS - Chemical Abstract Service Number

Al-5 - Appendix A Categories

NDA - No Data Available

() - Change Has Been Proposed

NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

\* THIS IS THE LAST PAGE OF THIS MSDS

Ravision Number: 0

Revision Date: 10/25/97

<u>District I</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 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 ACCEP	T SOEID, WASTE®
1. RCRA Exempt: Non-Exempt:	4. Generator: BJ Services
Verbal Approval Received: Yes \( \sum \) No \( \sum \)	5. Originating Site: Yard
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 3250 Southside River Road, Farmington	Project #95026-009
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 material is not-hazardous and the Generator's certification of origin. No waste capproved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Water contaminated with FRW-14 Friction Reducer. Product never made in broke down and it was sucked out.	t down-hole, the truck carrying it to the site
CWS and MSDS attached.	
Estimated Volume ~130gal cy Known Volume (to be entered by the operator at the	end of the haul)cy
SIGNATURE Waste Management Facility Authorized Agent  TITLE: Environmental	Administrative Assistant DATE: 04/07/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505) 632-0615</u>	5 5 0
(This space for State Use)	
APPROVED BY Denny tout TITLE: Environ	Frg DATE: 04/09/03
APPROVED BY: Manha OSA TITLE: Suvivona	mb/ Geolog 5/ DATE: 4/14/03

1. Generator Name and Address 3250 South Side



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

### BILL RICHARDSON

GOVETDOT Joanna Prukop Cabinet Secretary

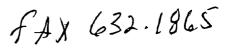


Lori Wrotenbery Director Oil Conservation Division

CERTIFICATE OF WAST

	BJ Services Riverkoad	Landfarm #2			
	FAR MINGTON, New Mexico	Hilltop, New Mexico			
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):			
	BJ YARD 30	250 Southside River Road			
	Farmington, nm 87401				
	l attach list of originating sites as appropriate				
	4. Source and Description of Waste	La sait Linistian Moducon			
	Drained t Rom Ego	ip me nt-Firiction reducer			
	That has jos seen one				
L	Les Baugh	representative for :			
	Print Name				
	BJ Services	do hereby certify that, according to the Resource			
	vation and Recovery Act (RCRA) and Environmental Protecti ed waste is: (Check appropriate classification)				
EX	KEMPT oilfield wasteNON-EXEM analysis o	MPT oilfield waste which is non-hazardous by characteristic or by product identification			
and that	t nothing has been added to the exempt or non-exempt non -h	nazardous waste defined above.			
For NO	N-EXEMPT waste the following documentation is attached ( MSDS InformationO RCRA Hazardous Waste AnalysisChain of Custody	(check appropriate items): ther (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			
Name (	Original Signature): Les Laugh				
Title:	FACILITIES Supervisor				
Date:	03/28/03				

Oil Conservation Division \* 1000 Rio Brazos Road \* Aztec, New Mexico 87410 Phone: (505) 334-6178 \* Fax (505) 334-6170 \* <a href="http://www.emnrd.state.rim.us">http://www.emnrd.state.rim.us</a>





# BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region:

USA

### **SECTION I - GENERAL INFORMATION**

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

emulsion

PRODUCT USE:

SUPPLIER:

ADDRESS:

**EMERGENCY TELEPHONE NUMBER** 

International

PREPARED BY:

DATE PREPARED:

April, 1994

**FRW-14** 

499514, 424227, 488226

A polyacrylamide in a hydrocarbon

solvent/water

Friction reducer

BJ Services Company

5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(202)483-7616 Alaska and

BJ Services Environmental Group

(281)351-8131

August 31, 2000 Supersedes:

HMIS HAZARD INDEX

HEALTH:

1

FLAMMABILITY: REACTIVITY:

'n

PERSONAL PROTECTION: g

### **SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Hydrotreated light distillate	64742-47-8	20 <b>-</b> 40	Irritant
Ethoxylated alcohol	68439-50-9	1-5	Skin irritant

### SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

>200°F (PMCC)

UPPER EXPLOSION LIMIT(% BY VOL):

N.E.

LOWER EXPLOSION LIMIT(% BY VOL): AUTO-IGNITION TEMPERATURE:

N.E.

**EXTINGUISHING MEDIA:** 

Dry chemical, CO2, foam. Use water

to cool containers exposed to fire. Large fires, use water spray or fog to thoroughly drench burning material.

SPECIAL FIRE FIGHTING PROCEDURES:

May evolve oxides of nitrogen under

fire conditions. If the water is driven

N.E. = Not Established

N.A. = Not Applicable

off, the remaining organics may be

ignitable.

**EXPLOSION DATA:** 

None

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of nitrogen.

### SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Skin and eye contact

**ACUTE OVEREXPOSURE EFFECTS:** 

SKIN CONTACT:

Can cause mild short lasting irritation.

SKIN ABSORPTION:

Not absorbed by skin.

EYE CONTACT: INHALATION:

Can cause moderate irritation

Not expected to be a route of entry

INGESTION:

Can cause central nervous system depression,

nausea, dizziness, vomiting or unconsciousness depending on the length of exposure and on the

first aid action given.

CHRONIC OVEREXPOSURE EFFECTS:

None known

**EXPOSURE LIMITS:** 

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Hydrotreated light distillate	5 mg/m3 (oil mist)	N.E.
Ethoxylated alcohol	N.E.	N.E.

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

Not listed as carcinogen - IARC, NTP, or OSHA

TERATOGENICITY, MUTAGENICITY:

No effects listed.

TOXICITY STUDIES:

LD(50)

N.E.

LC(50)

N.E.

### SECTION V - FIRST AID PROCEDURES

FOR EYES:

Flush with water for 15 minutes. Call a physician.

FOR SKIN:

Wash thoroughly with soap and rinse with water. Call a

physician.

FOR INHALATION:

Remove to fresh air. Treat symptoms. Call a physician.

FOR INGESTION:

Do not induce vomiting. Give water. Call a physician. NOTE TO PHYSICIAN: No specific antidote is known. Based on the individual reactions of the patient, the physician's judgment

should be used to control symptoms and clinical condition.

### **SECTION VI - PHYSICAL DATA**

N.E. = Not Established

N.A. = Not Applicable

APPEARANCE AND ODOR:

Off white, opaque liquid with hydrocarbon odor

SPECIFIC GRAVITY:

1.04-1.08 @ 75°F

VAPOR PRESSURE: VAPOR DENSITY (air=1): EVAPORATION RATE: N.E. N.E. N.E.

BOILING POINT: FREEZING POINT: SOLUBILITY IN H20:

N.E. N.E. N.E.

pH:

7 (1% solution)

### **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY:

Stable

**INCOMPATIBLE MATERIALS:** 

Avoid contact with strong oxidizers

(chlorine, peroxides, chromates,

nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and release of toxic fumes.

HAZARDOUS POLYMERIZATION:

Does not polymerize

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide,

oxides of nitrogen.

### SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION:

The use of mechanical ventilation is recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air

movement.

Not normally needed

RESPIRATORY PROTECTION: PROTECTIVE GLOVES:

Rubber or neoprene

EYE PROTECTION:

Goggles

OTHER PROTECTIVE EQUIPMENT:

Eyewash bottles or other rinsing equipment

should be easily accessible.

### SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES:

Dike or contain spill to prevent material from entering waterways. Pump large spills into salvage containers. Soak up residue or small spills with absorbent pads, clay, or dirt

and place in salvage containers.

WASTE DISPOSAL:

If this product becomes a waste it does not meet the requirements of a RCRA hazardous waste. Always dispose of according to local/state/federal regulations.

HANDLING & SPECIAL EQUIPMENT:

Avoid contact with eyes, skin and clothing. If clothing is contaminated, remove and thoroughly wash the affected area. Launder

N.E. = Not Established

N.A. = Not Applicable

contaminated clothing before reuse.

STORAGE REQUIREMENTS:

None

### SECTION X - REGULATORY INFORMATION

### SHIPPING INFORMATION

PROPER SHIPPING NAME:

Not DOT Regulated

HAZARD CLASS:

N.A.

UN/NA NUMBER:

N.A.

PACKING GROUP W/ "PG":

N.A.

SUBSIDIARY RISK:

N.A. N.A.

REPORTABLE QUANTITY (RQ):

**EMERGENCY RESPONSE GUIDE #:** 

N.A.

### **ENVIRONMENTAL INFORMATION**

### SARA TITLE III

SECTION 302/304

This product does not contain ingredients

listed as an Extremely Hazardous

Substance.

**SECTION 311/312** 

**Immediate** 

SECTION 313

This product does not contain ingredients (at

a level of 1% or greater) on the List of Toxic

Chemicals.

### OTHER REGULATORY INFORMATION

TSCA INVENTORY:

All of the components in this appear on the

TSCA inventory.

CALIFORNIA PROP 65:

None of the chemicals on the current

Proposition 65 list are known to be present

in this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 03/21/2003

Revision: 1

Status: Approved & Released MSDS

### Revision History:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	1	Telephone number	08/31/00

N.E. = Not Established

N.A. = Not Applicable

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		1

N.E. = Not Established

N.A. = Not Applicable

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

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST	FOR	APPROVAL T	O ACC	EPT	SOLID	WASTE	`.s., }
					W.L.	مساته سایت	

REQUESTION METROVILE TO MEELI			
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Hanover Compression		
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Yard		
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech		
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico		
7. Location of Material (Street Address or ULSTR) 1280 Troy King Road, Farmington	Project #99043-006		
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 material is not-hazardous and the Generator's certification of origin. No waste capproved</li> </ul>	necessary chemical analysis to PROVE the classified hazardous by listing or testing will be		
All transporters must certify the wastes delivered are only those consigned for trans	sport.		
BRIEF DESCRIPTION OF MATERIAL:			
Oil contaminated soil generated at a yard cleanup.			
CWS and Trace Metals Analysis attached.			
Estimated Volume 12 cy Known Volume (to be entered by the operator at the end of	of the haul)cy		
SIGNATURE HANDLA R. JOLESO TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 04/09/03		
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	<u>5</u>		
(This space for State Use)			
APPROVED BY: Denny Tout TITLE: Enviro/	Engr DATE: 04/09/03		
APPROVED BY: Montyn July TITLE: Environment	Wal Goologist DATE: 4/14/03		



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Juanna Prukop

Cabinet Secretary



Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Desimation Ivaine.
HANDYER COMPRESSOR	Envirotech Inc. Soil Remediation Facility
HANOVER COMPRESSOR 1280 TROY KING RD.	Landfarm #2
Table Tredy Kilos 1-2.	Hilltop, New Mexico
FARMINGTON, N.M. 87401	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
HANOVER FACILITY YARD	1280 TROY KING RD. FARMINGTON, NM
HANOVER FACILITY MAKED	CARMINICTANI NM
	87401
attach list of originating sites as appropriate	
4. Source and Description of Waste	
OIL CONTAMINATED SO	1
I, BRYAN KICHARDSON	representative for :
Print Name	
11.	
Conservation and Recovery Act (RCRA) and Environmental Protection	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)	
ONDERED ALCOHOMAN VIONEYEMI	PT oilfield waste which is non-hazardous by characteristic
anelysis of C	by product identification
and that nothing has been added to the exempt or non-exempt non -haz	zurdous weste defined shove
and that houlding has been added to the exempt of flort-exempt non -naz	saluous waste debried above.
For NON-EXEMPT waste the following documentation is attached (ch	neck annionriate items):
	er (description
RCRA Hazardous Waste Analysis	a (ocsorpaon
Chain of Custody	
Cuam of Custody	
This waste is in compliance with Regulated Levels of Naturally Occ	urring Radiosetive Material (NORM) purposet to 70
NMAC 3.1 subpart 1403.C and D.	and me wasterne interestial (110 km) houseful to 20
Militae 3:1 subpart 1403;e and D.	
Name (Ordated Structural)	
Name (Original Signature):	
Title: HSE COORDINATOR	
The 130 CONSTINUES	
Date: 4-8-03	
ON Complete A 1000 Pin To	Torse Bead & Aston New Maris - 57470
Oil Conservation Division * 1000 Rio Bi	MAZOS INOM TAZIEC, INEW MEXICO \$/410

Phone: (505) 334-6178 \* Fax (505) 334-6170 \* http://www.enunrd.state.nm.us



### TRACE METAL ANALYSIS

Client:	Hanover Compression	Project #:	99043-006
Sample ID:	Sample #1	Date Reported:	04-08-03
Laboratory Number:	25287	Date Sampled:	04-05-03
Chain of Custody:	10782	Date Received:	04-07-03
Sample Matrix:	Soil	Date Analyzed:	04-08-03
Preservative:	Cool	Date Digested:	04-07-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
	0.440	0.004	F.0
Arsenic	0.116	0.001	5.0
Barium	5.53	0.001	100
Cadmium	0.119	0.001	1.0
Chromium	0.510	0.001	5.0
Lead	ND	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.052	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:

Farmington Yard Composite of 12 locations.



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-08-TM QA/QC	Date Reported:	04-08-03
Laboratory Number:	25286	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	04-08-03
Condition:	N/A	Date Digested:	04-07-03

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detecti Limit	5/38/ a 5 1/ Colombia (m. 553 a 1 1 1 5	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.296	0.294	0.7%	0% - 30%
Barium	ND	ND	0.001	9.60	9.64	0.4%	0% - 30%
Cadmium	ND	ND	0.001	0.326	0.328	0.6%	0% - 30%
Chromium	ND	ND	0.001	3.54	3.57	0.8%	0% - 30%
Lead	ND	ND	0.001	3.48	3.45	0.9%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.117	0.114	2.6%	0% - 30%
Silver	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.296	0.794	99.7%	80% - 120%
Barium	0.500	9.60	10.1	100.0%	80% - 120%
Cadmium	0.500	0.326	0.825	99.9%	80% - 120%
Chromium	0.500	3.54	4.03	99.8%	80% - 120%
Lead	0.500	3.48	3.96	99.5%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.117	0.615	99.7%	80% - 120%
Silver	0.500	0.001	0.500	99.8%	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 samples 25286 - 25287.

Analyst

# CHAIN OF CUSTODY RECORD

Hanouer Compression Farmington yard Sampler: Brian Richard Dor Sample Sample Sample Sample	No. of Shally Signature of	ANALYSIS / PARAMETERS  Remarks
62		Composite 2
i I I I I I I I I I I I I I I I I I I I	Received by: (Signature)	Date Time
4-1-03 1:00 W	Received by: (Signature)	04/02 0140
	Received by: (Signature)	
ENVIRO Especial 5796 U.S Farmington, N	ENVIROTECHING.  5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615	Sample Receipt  Y N N/A  Received Intact  Cool - Ice/Blue Ice

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, 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

DECLIEST FOR APPROVAL TO ACCEPT SOLID WASTE

Environmental Bureau Oil Conservation Division

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

THE QUEST TORTH THOUTH TO THEELT	I SOLID WILDING
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: El Paso Field Services
Verbal Approval Received: Yes No 🖂	5. Originating Site: 3B-1 Compressor Station
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Moss
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) Sec 33, T30N, R9W, SJC	Project #97057-051
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be accompanied b	y a certification of waste from the Generator;

### **BRIEF DESCRIPTION OF MATERIAL:**

one certificate per job.

approved

Soil contaminated with antifreeze and lube oil. CWS attached. Total RCRa metals

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.

Estimated Volume 10cy

Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE /

TITLE: Environmental Administrative Assistant

DATE: 01/03/02

TYPE OR PRINT NAME: Landrea Jackson

TELEPHONE NO: (505) 632-0615

This is the correct date

(This space for State Use)

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:				
El Paso Field Services Co.	Envirotech Soil Remediation Facility				
614 Reilly Avenue	Landfarm #2				
Farmington, NM 87401	Hilltop, New Mexico				
3. Originating Site (name):	Location of Waste (Street address &/or ULSTR):				
5. Originating Site (name).					
3B-1 Compressor Station	Section 33, T30N, R9W, San Juan Co., NM				
Attach list of originating sites as appropriate					
Source and Description of Waste					
Soil contaminated with antifreeze and lube oil					
5011 contaminated with antiffeeze and fube of					
ı, David Bays	representative for:				
(Print Name)					
FLD Field Comisso					
El Paso Field Services	do hereby certify that, overy Act (RCRA) and Environmental Protection Agency's July,				
1988 regulatory determination, the above describe					
	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-hazardous waste defined abovo				
and that nothing has been added to the exempt of	Tion-riazardous waste defined above.				
For NON EVENDT weeks only the following door					
For NON-EXEMPT waste only, the following documents	nentation is attached (check appropriate items):				
MSDS Information	Other (description)				
X* RCRA Hazardous Waste Analy Chain of Custody	SiS				
Chair of Custody					
Name (Original Signature):	AR.				
Traine (Original Olgitature).	- Say				
Title: Principal E	invironmental Scientist				
Date: March 10, 2003					
* TCLP analysis completed by Envirotech					
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					



### TRACE METAL ANALYSIS

Client:	Envirotech	Project #:	
Sample ID:	S - 1	Date Reported:	03-27-03
Laboratory Number:	25212	Date Sampled:	03-25-03
Chain of Custody:	10753	Date Received:	03-25-03
Sample Matrix:	Soil	Date Analyzed:	03-27-03
Preservative:	Cool	Date Digested:	03-26-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
	1		
Arsenic	ND	0.001	5.0
Barium	8.85	0.001	100
Cadmium	ND	0.001	1.0
Chromium	3.50	0.001	5.0
Lead	4.82	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:

Landfarm #2, Cell M 9.

Analyst C. Cegure

Pristing Walters



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:		QA/QC		Project #:	Project #:		
Sample ID:		03-27-TM	QA/QC	Date Repo	Date Reported:		
Laboratory Number:		25212		Date Samp	Date Sampled:		
Sample Matrix:		Soil		Date Recei	Date Received:		
Analysis Requested:		Total RCR	A Metals	Date Analy	zed:		03-27-03
Condition:		N/A	N/A		ted:		03-26-03
Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detecti Limit	<ul> <li>200 LOCAL SOMETHING SERVICES</li> </ul>	Duplicat	e % Diff.	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	8.85	8.83	0.2%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	3.50	3.52	0.6%	0% - 30%
Lead	ND	ND	0.001	4.82	4.80	0.4%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spike	Samp	e Spiked	Percent	Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.500	ND	0.499	99.8%	80% - 120%
Barium	0.500	8.85	9.34	99.9%	80% - 120%
Cadmium	0.500	ND	0.500	100.0%	80% - 120%
Chromium	0.500	3.50	3.99	99.8%	80% - 120%
Lead	0.500	4.82	5.31	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.498	99.6%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND

ND

0.0%

0% - 30%

ND - Parameter not detected at the stated detection limit.

ND

ND

0.001

References:

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 25212.

Analyst

Review Martini M Warters

# CHAIN OF CUSTODY RECORD

				Time		N N A/A	
	Remarks			Date 3/21-103			77
	Œ			3/8		Sample Receipt	d Intact Blue Ice
ETERS			·				Received Intact
' PARAM				}	-		
ANALYSIS / PARAMETERS				}			
AA				3			
				ure)	ure)	S	
∀∂.	Containers Total RC 21xt3m	7		Received by: (Signature)	Received by: (Signature)		, 64 o 8740
	ło .oN			ceived by	ceived by	5	lighway / Mexic
) W (1	Client No.  Land Harry Sample  Lab Number  Matrix			Time Re	- Be	ENVIROTECH INC.	5796 U.S. Highway 64 Farmington, New Mexico 87401
2	Sample	20.1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		VIR	5796 mingtc
#				3051k			Far
Project Location	Slient No.  CANGFAK PALAB Number	25212					
Project	1	25					-
	Sample	1300					
	Sample	3/25 1300		ackso			
5		30			nature)		
ect Name	er:  Ke Stal  Sample No./			1 by: (Sig	1 by: (Sig		
Client / Project Name	Sampler: Sample No./ Identification	<u>3</u>		Relinquished by: (Signature)	Relinquished by: (Signature)		
51	Sa	\ <u>\</u>					

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 ACCEP	T SOLID WASTE				
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Conoco Phillips				
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: FC State Com #12				
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA				
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico				
7. Location of Material (Street Address or ULSTR) "A", Sec 36, T32N, R11W, San Juan County	Project #96052-029				
9. <u>Circle One</u> :					
<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 trans	port.				
BRIEF DESCRIPTION OF MATERIAL:					
Used compressor oil contaminated soil generated at a slow leak over time.					
CWS and RCRA 8 Metals analysis attached.					
Estimated Volume 18 cy Known Volume (to be entered by the operator at the end of the haul)cy					
SIGNATURE Handrou R. JOUNSO TITLE: Environmental Administrative Assistant DATE: 04/08/03 Waste Management Fasility Authorized Agent					
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615					
(This space for State Use)					
APPROVED BY: Deny tous TITLE: Enviro/E	Eng L DATE: 04/09/03				
APPROVED BY: Mustyn 3/1/2. TITLE: Environm	6/60/9154 DATE: 4/14/02				

4-03; 2:03PM; ENVIROTECH

1. Generator Name and Address

Corrocophillips 5525 Husy 64 Envirotech Inc. Soil Remediation Facility



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

2. Destination Name:

Landfarm #2

BILL-RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

### CERTIFICATE OF WASTE STATUS

Formington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	c. 36, T32N, RIIW
API: 36-045-27524 attach list of originating sites as appropriate	an Juan County, NM
4. Source and Description of Waste	-
Used compressor oil -	18 ey soil
- slow leak over time	<b>3</b>
•	
I, Monica D. Rodahl Print Name	representative for :
	·
ConocoPhillips Co.	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 wasteNON-EXEMP analysis or by	T oilfield waste which is non-hazardous by characteristic product identification
and that nothing has been added to the exempt or non-exempt non -haza	•
and that nothing has been added to the exempt of hon-exempt non naz-	ndous waste defined above.
For NON-EXEMPT waste the following documentation is attached (che	ck appropriate items):
<del></del>	(description
✓RCRA Hazardous Waste Analysis Chain of Custody	
Chair of Custody	
This waste is in compliance with Regulated Levels of Naturally Occu NMAC 3.1 subpart 1403.C and D.	rring Radioactive Material (NORM) pursuant to 20
Name (Original Signature): MMW D. Rodahl	
Title: HSE & Repulatory Technician	
Date: 4-8-03	
	•



### TRACE METAL ANALYSIS

Client:	Conoco Phillips	Project #:	96052-029
Sample ID:	Compressor Oil	Date Reported:	04-08-03
Laboratory Number:	25286	Date Sampled:	04-04-03
Chain of Custody:	10781	Date Received:	04-04-03
Sample Matrix:	Soil	Date Analyzed:	04-08-03
Preservative:	Cool	Date Digested:	04-07-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals
		Det.	TCLP Regulatory
Parameter	Concentration (mg/Kg)	Limit (mg/Kg)	Level (mg/Kg)
Arsenic	0.296	0.001	5.0
Barium	9.60	0.001	100
	0.326	0.001	1.0
Caomium			
Chromium	3.54 3.48	0.001	5.0
Cadmium Chromium Lead Mercury	3.54		

ND - Parameter not detected at the stated detection limit.

References:

Silver

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

SW-846, USEPA, December 1996.

0.001

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

0.001

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Yard.

5.0



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:		QA/QC		Project #	:	N/A		
Sample ID:		04-08-TM QA/QC		Date Rep	orted:		04-08-03	
Laboratory Number:		25286		Date San	npled:		N/A	
Sample Matrix:		Soil		Date Rec	eived:	*	N/A	
Analysis Requested:		Total RCRA Metals		Date Ana	Date Analyzed:		04-08-03	
Condition:		N/A		Date Digested:			04-07-03	
2002 _ 1 - Mario - 100 40,000 _ 10 1000 _ 10 1000	gass " rommydastaskiskass jyncys	· mmmaaaa	erro esseren rem 🛶 e estrografia		. x	**************************************	enement Letter ▲ Therefore, energy, puestion therefore	
Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detectio Limit	Carried and the control of the contr	e Duplicate	% Diff.	Acceptance Range	
Arsenic	ND	ND	0.001	0.296	0.294	0.7%	0% - 30%	
Barium	ND	ND	0.001	9.60	9.64	0.4%	0% - 30%	
Cadmium	ND	ND	0.001	0.326	0.328	0.6%	0% - 30%	
Chromium	ND	ND	0.001	3.54	3.57	0.8%	0% - 30%	
Lead	ND	ND	0.001	3.48	3.45	0.9%	0% - 30%	
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%	
Selenium	ND :	ND	0.001	0.117	0.114	2.6%	0% - 30%	
Silver	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%	

Spike	Spike	Sample	Spiked	Percent	Acceptance
·Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.500	0.296	0.794	99.7%	80% - 120%
Barium	0.500	9.60	10.1	100.0%	80% - 120%
Cadmium	0.500	0.326	0.825	99.9%	80% - 120%
Chromium	0.500	3.54	4.03	99.8%	80% - 120%
Lead	0.500	3.48	3.96	99.5%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.117	0.615	99.7%	80% - 120%
Silver	0.500	0.001	0.500	99.8%	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 samples 25286 - 25287.

Analyst

# CHAIN OF CUSTODY RECORD

ANALYSIS / FARAMETERS	Matrix Ma	Time Pecgived by: (Signature)  Time Pecgived by: (Signature)  Heceived by: (Signature)	ENVROTECHE Dy: (Signature)  Sample Receipt  5736 U.S. Highway 64  Farmington New Mexico 87401
Project Location	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Date (4-4-63)	ENVIR Farmingt
Client / Project Namy	Sample No./ Sample identification Date  Or: PALADOA 4/4/03	Relinquished by: (Signature)  Relinquished by: (Signature)	Helinquished by: (Signature)

!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

110 (010 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7113
1. RCRA Exempt: ☐ Non-Exempt: ☑	74. Generator: Cooper Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Mark West CDP #2
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) Sec 14, T27N, R11W, SJC. Longitude W 107°58.72", Latitude N 36°34.75"	Project #96043-005
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 c approved</li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	
New Conoco El Mar Geo 15W 40 oil that drained onto the ground from the	e crankcase of an AIAX DPC-2802 Engine
TWO CONOCO EN VINE GEO 13 W 40 ON that dramed onto the ground from the	o oralization of all 1 miles of a 2002 bilging.
CWS and MSDS attached.	
Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of	f the haul)cy
SIGNATURE Jandua R. JURSO TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 07/30/02
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	03.2 %0.0 %0.0 %0.0 %0.0 %0.0 %0.0 %0.0 %0
(This space for State Use)	
APPROVED BY: Deruf toen TITLE: Enviro	DENGY DATE: 03/18/03
APPROVED BY: Mantyo John TITLE: Environmental	Garagist DATE: 03/20/03



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (508) 334-6178 FAK (505)334-61

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
GOOPER ENERGY SERVICES	Envirotech Soil Remediation Facility
2101 S.E. 18# St.	Landfarm #2
OKLAHOMA City, OK. 73129-8357	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Mark west CDT#2	
FROM BLOOMFIEID TAKE HWY 550 5. AFTER PUSSING BIG BROWN BUILDING.	Latitupe N 36°5 34.75" LONGITUPE W 107°5 58.72" OUTH TO MILE MARKER 141. GO LEFT TAKE SECOND RIGHT. 1/2 MILE +0 16 CATEN
Attach list of originating sites as appropriate	1 MILE to location
4. Source and Description of Waste	·
BEE ATTACHED FOR DEtails.	<u>,</u>
APPROS 5 GALLONS OF NEW "CON	NOCO EL MAR GEO 15W40"OIL SE OF AN AJRX PPC-2802 ENGINE
DRAINED FROM THE CRANKCAS CRANKCASE	SE OF AN AJEX PPC-2802 ENGINE
1, William F. HURLBUT (Print Name)	representative for:
COOPER ENERGY SERVICES	do hereby certify that,
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	
	PT 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 documentat  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	ion is attached (check appropriate items): Other (description):
to 20 NMAC 3.1 subpart 1403.C and D.	aturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature): William F.	Herlant
Title: MANAGER OF TECH. SUPPOR	T/AJAX PROPucts
Date: 3/12/03	

## **Material Safety Data Sheet**



### EL MAR GEO

# 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

EL MAR GEO

MSDS Code: MOTC0055 Revision Date: 03-June-2002

"EL MAR" is a registered trademark of Conoco.

Product Use:

Natural Gas Engine Oil

Grade:

15W-40, 30/40

MANUFACTURER/DISTRIBUTOR

Conoco Inc. P.O. Box 2197 Houston, TX 77252

PHONE NUMBERS

Product Information : 1-281-293-5550

Transport Emergency : CHEMTREC 1-800-424-9300 (domestic)

1-703-527-3887 (international; call collect)

Medical Emergency : 1-800-342-5119 or 1-281-293-5119

WEB SITE : www.conoco.com

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components CAS Numbers %
Highly refined base oils 64741-88-4 40-100
64741-89-5 0-50

Proprietary additives Mixture 1-15

If oil mist is generated, exposure limits apply. (See Section 8.)

3. HAZARDS IDENTIFICATION

--- EMERGENCY OVERVIEW ---

APPEARANCE / ODOR

Clear and bright liquid / mild petroleum hydrocarbon odor.

OSHA REGULATORY STATUS

This material is not known to be hazardous as defined under OSHA regulations.

HMIS RATING Health: 1; Flammability: 1; Physical Hazard: 0. NFPA RATING Health: 0; Flammability: 1; Instability: 0.

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.

"USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

### 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 or ACGIH as a carcinogen.

### 4. FIRST AID MEASURES

### 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.

### Eye Contact

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

### Ingestion

Material poses an aspiration hazard. If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

### 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.

### # 5. FIRE FIGHTING MEASURES

### Flammable Properties

Flash Point (15W-40) : 460 F (238 C) (Typical) Method: COC (30/40) 505 F (263 C) (Typical) Method: COC Autoignition : Not Available

### 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 spray 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.

\_\_\_\_\_

### 6. ACCIDENTAL RELEASE MEASURES

Safequards (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, or low areas.

### Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

### 7. 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.

\_\_\_\_\_\_

### Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. 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 cool, dry, well-ventilated place. Store away from oxidizers, heat, sparks and flames.

### 8. 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.

### OTHER PRECAUTIONS

Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

### Applicable Exposure Limits

If oil mist is generated, exposure limits apply. : 5 mg/m3, 8 Hr.  $\overline{\text{TWA}}$ (OSHA)

: 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3 TLV(ACGIH)

### \_\_\_\_\_ # 9. PHYSICAL AND CHEMICAL PROPERTIES

\_\_\_\_\_

### Physical Data

: Clear and bright liquid Appearance

: 1.5 (ASTM D-1500) Color

: Petroleum Hydrocarbon (mild). Odor

Vapor Pressure : Nil

: N11 : >1 (Air=1.0) Vapor Density

% Volatiles : Nil Evaporation Rate : Nil Solubility in Water : Insoluble

Specific Gravity : 0.87-0.88 @ 60 F (16 C) : 7.2-7.4 lb/gal @ 60 F (16 C) Density

### 10. STABILITY AND REACTIVITY

\_\_\_\_\_

### Chemical Stability

Stable.

### Conditions to Avoid

Heat, sparks, and flames.

### Incompatibility with Other Materials

Incompatible or can react with oxidizers.

### Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

### Polymerization

Polymerization will not occur.

### 11. TOXICOLOGICAL INFORMATION

\_\_\_\_\_\_

### Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -

Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

### 12. ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

### 13. 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.

\_\_\_\_\_\_

### 14. TRANSPORTATION INFORMATION

### Shipping Information

DOT: Not regulated.

IATA/IMDG: Not restricted.

### # 15. REGULATORY INFORMATION

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### 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.

### SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

### SARA, TITLE III, 311/312

Acute : No Chronic : No Fire : No Reactivity: No Pressure : No

### SARA, TITLE III, 313

This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

### TSCA

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

### RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

### 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

: Petroleum Hydrocarbons.

Reportable Quantity

: 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 ingredients subject to the

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

This material is not known to contain any ingredient(s) subject to the Act.

### Canadian Regulations

This is not a WHMIS Controlled Product.

### 16. OTHER INFORMATION

\_\_\_\_\_

NOTE: This product or any other hydrocarbon-based lubricant should not be used in non-diaphragm compressors that produce "breathing air" unless the outlet is monitored continuously for carbon monoxide. These lubricants can produce carbon monoxide when subjected to high temperatures.

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 : DNA-SHE Address : Conoco Inc.

> : Colloco Inc.

> : Houston, TX 77252
Telephone : 1-281-293-5550

# Indicates updated section.

End of MSDS

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 State of New Mexico

Oil Conservation Division MAR 2003 1220 South St. Francis Dr. Santa Fe, NM 87505

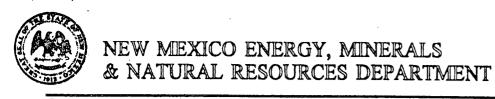
Form C-138 Revised March 17, 1999

Marty ne Kieling

Submit Original Plus 1 Copy to Appropriate District Office

2007

REQUEST FOR APPROVAL TO ACCEP	T'SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator: BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Yard
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 3250 Southside River Road, Farmington	Project #95026-008
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 material is not-hazardous and the Generator's certification of origin. No waste capproved</li> </ul>	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Diesel and gel contaminated media cleaned off of equipment in yard.	
CWS and MSDS attached.  Estimated Volume 2bb cy Known Volume (to be entered by the operator at the e	end of the haul)cy
SIGNATURE Sandrea R. Jackson TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 03/07/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	032803
(This space for State Use)	
APPROVED BY: Menty Company TITLE: Environment	Engr DATE: 03/18/03
APPROVED BY: Monty Oth. TITLE: Environment	d Godons+ DATE: 63/28/03



OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6170 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  BT Services River Road  2. Destination Name:  Envirotech Soil Remediation Facility  Landfarm #2
BT Services River Road  Envirotech Soil Remediation Facility  Landfarm #2
FARMINGTON, New Mexico Hilltop, New Mexico
3. Originating Site (name):  BJ Yord. 3250 Southside River Road
Attach list of originating sites as appropriate
4. Source and Description of Waste
cleaned gel from equipment
I, Les Baugh representative for:
BJ (Print Name) / 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 \( \sum_{\text{x}} \) 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 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.
Name (Original Signature):
Title: Failles Supereron
Date: $3/3/03$





# BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region:

USA

## **SECTION I - GENERAL INFORMATION**

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE:

SUPPLIER:

ADDRESS:

**EMERGENCY TELEPHONE NUMBER** 

PREPARED BY:

DATE PREPARED:

GW-4

424203, 488011

Guar gum

Gellant - water

BJ Services Company 5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(703)527-3887 Alaska and International

BJ Services Environmental Group

(281)351-8131

September 18, 2000

Supersedes: November 17, 1997

HMIS HAZARD INDEX

HEALTH:

1

 ${\sf FLAMMABILITY}:$ 

1

REACTIVITY: 0
PERSONAL PROTECTION: e

## **SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Guar gum	9000-30-0	>99	Irritant

## **SECTION III - FIRE AND EXPLOSION HAZARD DATA**

FLASHPOINT (METHOD):

>200°F (TOC)

UPPER EXPLOSION LIMIT(% BY VOL):

N.E.

LOWER EXPLOSION LIMIT(% BY VOL):

N.E. N.E.

AUTO-IGNITION TEMPERATURE: EXTINGUISHING MEDIA:

Use carbon dioxide or dry chemical for small fires;

aqueous foam or water for large fires.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors of products

of combustion exists.

**EXPLOSION DATA:** 

Like all carbohydrate and most dry chemicals, a potential

dust explosion hazard exists if the dust concentration in air is too high. Good housekeeping procedures are

required to reduce this potential hazard.

HAZARDOUS COMBUSTION PRODUCTS:

Fumes produced when heated to decomposition may

include: carbon monoxide, carbon dioxide.

## **SECTION IV - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY: Eye contact, inhalation

**ACUTE OVEREXPOSURE EFFECTS:** 

SKIN CONTACT:

No specific information available. Contains materials that are

essentially nonirritating, but contact may cause slight transient

irritation.

SKIN ABSORPTION:

No specific information available. Contains materials that may be

practically nontoxic.

EYE CONTACT:

No specific information available. Contains materials that may cause

eve injury which may persist for several days.

INHALATION:

No specific information available. Dust may produce a respiratory

allergenic response and/or irritation in some individuals.

INGESTION:

Contains materials that may be practically nontoxic. Ingestion of dry powder may result in the material swelling in the throat possibly causing blockage of the throat and choking. Ingestion is not an

expected route of entry.

CHRONIC OVEREXPOSURE EFFECTS: Based on a medical study of exposed workers, some

individuals may develop a respiratory allergenic response to guar dust. Persons with a history of respiratory allergies may have those conditions aggravated by exposure to guar dust.

#### **EXPOSURE LIMITS:**

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Guar gum	10 mg/m3 (total dust)	10 mg/m3 (total dust)

CARCINOGENICITY, REPRODUCTIVE EFFECTS: Not listed as carcinogen - IARC, NTP, or OSHA

TERATOGENICITY, MUTAGENICITY: No effects listed.

TOXICITY STUDIES:

LD(50)

N.E.

LC(50)

N.E.

N.E. = Not Established

N.A. = Not Applicable

MSDS for GW-4...Page 2

## **SECTION V - FIRST AID PROCEDURES**

FOR EYES: Flush with plenty of water for at least 15 minutes and seek medical attention if

irritation persists.

FOR SKIN: Remove contaminated clothing and wash contact area with water and mild soap,

if available. If irritation develops or persists, contact a physician.

FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. Keep

person warm, quiet and get medical attention.

FOR INGESTION: Fluids should be taken to prevent esophageal obstruction if dry material is

swallowed. Get medical attention.

## **SECTION VI - PHYSICAL DATA**

APPEARANCE AND ODOR: Off white powder, bean-like odor

SPECIFIC GRAVITY: 1.3

VAPOR PRESSURE: N.A.

VAPOR DENSITY (air≈1): N.A.

EVAPORATION RATE: N.A.

BOILING POINT: N.A.

FREEZING POINT: N.A.

SOLUBILITY IN 1420: Forms

SOLUBILITY IN H20: Forms gel

pH: 6-8 at 0.5 wt/wt%

## SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: Stable

INCOMPATIBLE MATERIALS: Strong oxidizing agents HAZARDOUS POLYMERIZATION: Does not polymerize HAZARDOUS DECOMPOSITION PRODUCTS: See combustion products

### SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION: The use of mechanical ventilation is recommended whenever

this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is

natural air movement.

RESPIRATORY PROTECTION: Dust mask - Where ventilation is inadequate, wear a NIOSH

approved dust or air-line respirator.

PROTECTIVE GLOVES: Rubber or neoprene

EYE PROTECTION: Goggles

OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment should be easily

accessible.

### SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES: For wet material, dike spill and absorb with inert material and

collect for disposal. Caution: Wet material is slippery For dry powder, sweep or scoop-up and collect for disposal. Avoid

creating dust clouds and breathing dust.

WASTE DISPOSAL: If this product becomes a waste it does not meet the

requirements of a RCRA hazardous waste. Always dispose of

according to local/state/federal regulations.

N.E. = Not Established N.A. = Not Applicable MSDS for GW-4...Page 3

HANDLING & SPECIAL EQUIPMENT: Avoid breathing dust: Surfaces dusted with this product can

become slippery when wet.

Store in a dry place. Keep container closed to avoid moisture STORAGE REQUIREMENTS:

pickup. Avoid creating dust clouds and breathing dust when

handling.

## **SECTION X - REGULATORY INFORMATION**

#### SHIPPING INFORMATION

PROPER SHIPPING NAME:

Not DOT Regulated

HAZARD CLASS: UN/NA NUMBER: N.A. N.A.

PACKING GROUP W/ "PG":

N.A.

SUBSIDIARY RISK:

N.A.

REPORTABLE QUANTITY (RQ):

N.A.

**EMERGENCY RESPONSE GUIDE #:** 

N.A.

## **ENVIRONMENTAL INFORMATION**

#### SARA TITLE III

**SECTION 302/304** 

This product does not contain ingredients listed as an Extremely

Hazardous Substance.

**SECTION 311/312** 

Immediate, Delayed

SECTION 313

This product does not contain ingredients (at a level of 1% or

greater) on the List of Toxic Chemicals.

## OTHER REGULATORY INFORMATION

TSCA INVENTORY:

All of the components in this appear on the TSCA inventory.

**CALIFORNIA PROP 65:** 

This product is not subject to California Proposition 65

notification.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

Revision: 1 Status: Approved & Released MSDS

#### **Revision History:**

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	1	Telephone number	09/18/00

N.E. = Not Established

N.A. = Not Applicable

N.E. = Not Established

N.A. = Not Applicable

MSDS for GW-4...Page 5



## **BJ SERVICES COMPANY** MATERIAL SAFETY DATA SHEET

Region:

USA

## **SECTION I - GENERAL INFORMATION**

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE:

SUPPLIER:

ADDRESS:

**EMERGENCY TELEPHONE NUMBER** 

International

PREPARED BY:

DATE PREPARED: August 6, 1998

Diesel #2

182848, 100365

Diesel Oil Solvent

BJ Services Company 5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(202)483-7616 Alaska and

BJ Services Environmental Group

(281)351-8131

August 7, 2000 Supersedes:

**HMIS HAZARD INDEX** 

**HEALTH:** 

FLAMMABILITY: REACTIVITY:

2

PERSONAL PROTECTION: h

## **SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Diesel Fuel	68476-34-6	100	Combustible

### SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

130°F (TCC)

UPPER EXPLOSION LIMIT(% BY VOL):

6.0

LOWER EXPLOSION LIMIT(% BY VOL):

0.4

**AUTO-IGNITION TEMPERATURE:** 

494°F

EXTINGUISHING MEDIA:

Water spray, dry chemical, CO2,

foam

SPECIAL FIRE FIGHTING PROCEDURES:

Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Do not enter enclosed or confined space without proper

protective equipment including

respiratory protection.

EXPLOSION DATA: Vapor forms explosive mixture with

air.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide,

and a variety of hydrocarbons

## **SECTION IV - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY: Skin contact, inhalation

**ACUTE OVEREXPOSURE EFFECTS:** 

SKIN CONTACT: Prolonged or repeated contact with skin may cause

irritation or contact dermatitis.

SKIN ABSORPTION:

Not absorbed by skin.

EYE CONTACT: INHALATION:

Eye contact may cause irritation and redness.

Prolonged exposure may cause signs and symptoms of Central Nervous System depression such as headache, dizziness, loss of appetite,

weakness, and loss of coordination. May also lead

to chemical pneumonia.

INGESTION: Will cause nausea, vomiting, diarrhea, and

restlessness.

CHRONIC OVEREXPOSURE EFFECTS: Eye irritation, skin irritation leading to

dermatitis, CNS depression and chemical

pneumonia.

## **EXPOSURE LIMITS:**

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Diesel Fuel	N.E.	N.E.

### CARCINOGENICITY, REPRODUCTIVE EFFECTS:

Petroleum distillate, a component of this product, has been shown to cause skin cancer in laboratory animals.

TERATOGENICITY, MUTAGENICITY:

No effects listed.

**TOXICITY STUDIES:** 

LD(50) 9 ml/kg (oral-rat)

LC(50) N.E.

## **SECTION V - FIRST AID PROCEDURES**

FOR EYES: Immediately flush with plenty of water for at least 15

minutes. If irritation persists, contact a physician.

FOR SKIN: Flush skin with water or wash with mild soap and water if

available. If irritation persists, contact a physician.

FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial

N.E. ≈ Not Established N.A.

N.A. = Not Applicable

MSDS for Diesel #2...Page 2

respiration. Keep person warm, quiet and get medical

attention.

FOR INGESTION: DO NOT induce vomiting. Aspiration into the lungs will cause

severe chemical pneumonia. Seek medical attention

immediately!

## **SECTION VI - PHYSICAL DATA**

APPEARANCE AND ODOR: Clear or straw-colored or dyed blue/green/red

liquid with aromatic odor.

SPECIFIC GRAVITY:

0.84-0.88 @ 60°F 1 mm Hg @ 68°F

VAPOR PRESSURE: VAPOR DENSITY (air≈1):

>1

EVAPORATION RATE:

N.E.

BOILING POINT:

350-690°F (177-366°C)

FREEZING POINT: SOLUBILITY IN H20:

N.E. Insoluble

pΗ:

N.A.

## **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY:

Stable

INCOMPATIBLE MATERIALS:

Strong oxidizers

Does not polymerize

HAZARDOUS POLYMERIZATION: HAZARDOUS DECOMPOSITION PRODUCTS:

See Combustion Products

## **SECTION VIII - SPECIAL/PERSONAL PROTECTION**

**VENTILATION:** 

The use of mechanical ventilation is recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air movement.

RESPIRATORY PROTECTION:

As needed. Air purifying, half face piece,

organic vapor cartridge or canister.

PROTECTIVE GLOVES:

Rubber or neoprene

EYE PROTECTION:

Safety glasses or goggles

OTHER PROTECTIVE EQUIPMENT:

Eyewash bottles or other rinsing equipment

should be easily accessible.

## **SECTION IX - HANDLING PRECAUTIONS**

LEAK AND SPILL PROCEDURES:

Eliminate ignition sources. Dike or contain spill to prevent material from entering waterways. Pump large spills into salvage containers. Soak up residue or small spills with absorbent pads, clay, or dirt and place in salvage containers.

WASTE DISPOSAL:

If this product becomes a waste it may meet the requirements of a RCRA hazardous waste with the waste code D001. Always dispose of according to all local, state, and

N.E. = Not Established

N.A. = Not Applicable

federal laws and regulations.

HANDLING & SPECIAL EQUIPMENT: Avoid contact with eyes, skin and clothing.

Avoid breathing vapors. Keep away from heat, sparks and open flames. Ground container when pouring. Keep containers

closed when not in use.

STORAGE REQUIREMENTS: Store outdoors or in a detached area if

possible. Otherwise, store in a well-ventilated area away from heat, sparks

and open flames.

## **SECTION X - REGULATORY INFORMATION**

#### SHIPPING INFORMATION

PROPER SHIPPING NAME:

Diesel Fuel

HAZARD CLASS:

3

UN/NA NUMBER: PACKING GROUP W/ "PG":

NA1993 PGIII

SUBSIDIARY RISK:

N A

REPORTABLE QUANTITY (RQ):

N.A.

EMERGENCY RESPONSE GUIDE #:

128

#### **ENVIRONMENTAL INFORMATION**

#### SARA TITLE III

SECTION 302/304

This product does not contain ingredients

listed as an Extremely Hazardous

Substance.

SECTION 311/312

Immediate, Delayed, Fire

SECTION 313

This product does not contain ingredients (at

a level of 1% or greater) on the List of Toxic

Chemicals.

#### OTHER REGULATORY INFORMATION

TSCA INVENTORY:

All of the components in this appear on the

TSCA inventory.

**CALIFORNIA PROP 65:** 

None of the chemicals on the current

Proposition 65 list are known to be present

in this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

Revision: 2

Status: Approved & Released MSDS

Revision History:

N.E. = Not Established

N.A. = Not Applicable

MSDS for Diesel #2...Page 4

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	HMIS, II, III,IV,VI,IX,X	HMIS, CAS#, Fire & explosion data, LD50, Physical data, Handling precautions, Regulatory information	8-6-98
3	1	Telephone number	08/07/00



## BJ SERVICES COMPANY **MATERIAL SAFETY DATA SHEET**

Region:

USA

## **SECTION I - GENERAL INFORMATION**

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE:

SUPPLIER:

ADDRESS:

**EMERGENCY TELEPHONE NUMBER** 

International

PREPARED BY:

DATE PREPARED:

1998

PSA-1

488164

Organophilic clay

Component

BJ Services Company 5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(202)483-7616 Alaska and

BJ Services Environmental Group

(281)351-8131

November 9, 2000 Supersedes: February 19,

**HMIS HAZARD INDEX** 

HEALTH:

2

FLAMMABILITY:

0

REACTIVITY: PERSONAL PROTECTION: f

## SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Crystalline silica (cristobalite)	14464-46-1	< 1.0	Irritant
Crystalline silica (quartz)	14808-60-7	< 1.0	Irritant

## SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

N.A.

UPPER EXPLOSION LIMIT(% BY VOL):

N.A.

LOWER EXPLOSION LIMIT(% BY VOL): **AUTO-IGNITION TEMPERATURE:** 

73.6 g/m3 N.E.

**EXTINGUISHING MEDIA:** 

Alcohol foam, carbon dioxide, dry

chemical, or water fog

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should have eye

protection and wear self-contained breathing apparatus. Use water spray to cool containers exposed to fire.

**EXPLOSION DATA:** 

Normal precautions for organic dusts should be provided. Avoid dust concentrations and ensure all equipment is properly grounded to

prevent static discharges.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon and ammonia

## **SECTION IV - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY: Inhalation and eye contact

**ACUTE OVEREXPOSURE EFFECTS:** 

SKIN CONTACT:

Not expected to cause irritation.

SKIN ABSORPTION:

Cannot be absorbed through the skin. May produce slight mechanical irritation.

EYE CONTACT: INHALATION:

May cause slight irritation.

INGESTION:

Not expected to produce adverse effects.

CHRONIC OVEREXPOSURE EFFECTS: As with any nuisance dust, long term

exposure to concentrations above recommended exposure guidelines may overload the lung clearance mechanism and cause adverse lung effects and shortness of breath. Long term over exposure to products containing Crystalline Silica may cause silicosis. IARC has classified Crystalline Silica as 2A - Probably carcinogenic to humans.

#### **EXPOSURE LIMITS:**

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Crystalline silica (cristobalite)	0.1 mg/m3	0.1 mg/m3
Crystalline silica (quartz)	10 mg/m3 - Total	10 mg/m3 - Total 5 mg/m3 - Respirable

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

Not listed as carcinogenic - OSHA

Listed as a suspected carcinogen - IARC (Group 2A)

Listed as a suspected carcinogen - NTP (Respirable)

TERATOGENICITY, MUTAGENICITY:

No effects listed

TOXICITY STUDIES:

LD(50)

> 8,000 mg/kg (Rat)

LC(50)

N.E.

## **SECTION V - FIRST AID PROCEDURES**

FOR EYES:

In case of contact, immediately flush eyes with plenty of

N.E. = Not Established

N.A. = Not Applicable

MSDS for PSA-1...Page 2

water for at least 15 minutes. Lift upper and lower lids and

rinse well under them. Get medical attention, preferably an

ophthalmologist if irritation occurs.

FOR SKIN: Flush all affected areas with plenty of water for several

minutes. Remove and wash any contaminated clothing and

shoes. Get medical attention if skin irritation occurs.

FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial

respiration. Keep person warm, quiet and get medical

attention.

FOR INGESTION: Seek medical attention. If person is conscious and medical

help is not readily available, give water and induce vomiting.

## **SECTION VI - PHYSICAL DATA**

APPEARANCE AND ODOR: Odorless, light cream powder

SPECIFIC GRAVITY: 1.7 at 600°F

VAPOR PRESSURE:
VAPOR DENSITY (air=1):
EVAPORATION RATE:
BOILING POINT:
FREEZING POINT:
SOLUBILITY IN H20:
pH:
N.A.
N.A.
Insoluble
N.A.

## **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY: Stable INCOMPATIBLE MATERIALS: None known

HAZARDOUS POLYMERIZATION: Does not polymerize

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can

produce oxides of carbon and

ammonia.

### SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION: The use of mechanical ventilation is

recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air

movement.

RESPIRATORY PROTECTION: NIOSH approved (type) air purifying

respirator where TLV is exceeded.

PROTECTIVE GLOVES: Chemical resistant EYE PROTECTION: Safety glasses

OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment

should be easily accessible.

## **SECTION IX - HANDLING PRECAUTIONS**

LEAK AND SPILL PROCEDURES: Sweep up and place in suitable containers

for reuse or disposal.

WASTE DISPOSAL: If this product becomes a waste, it does not

N.E. = Not Established N.A. = Not Applicable MSDS for PSA-1...Page 3

meet the requirements of a RCRA hazardous waste. Always dispose of according to all local/state/ and federal

regulations.

HANDLING & SPECIAL EQUIPMENT Avoid high dust concentrations while

handling through the use of ventilation or other suitable controls. Ensure all equipment is grounded to prevent static

discharge.

STORAGE REQUIREMENTS:

None

## SECTION X - REGULATORY INFORMATION

#### SHIPPING INFORMATION

PROPER SHIPPING NAME: Not DOT Regulated

HAZARD CLASS:

UN/NA NUMBER:

PACKING GROUP W/ "PG":

SUBSIDIARY RISK:

REPORTABLE QUANTITY (RQ):

EMERGENCY RESPONSE GUIDE #:

N.A.

N.A.

#### **ENVIRONMENTAL INFORMATION**

#### **SARA TITLE III**

SECTION 302/304 This product does not contain ingredients listed as an

Extremely Hazardous Substance.

SECTION 311/312

Immediate, Delayed

SECTION 313

This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

## OTHER REGULATORY INFORMATION

TSCA INVENTORY: All of the components in this appear on the

TSCA inventory.

CALIFORNIA PROP 65: None of the chemicals on the current

Proposition 65 list are known to be present in

this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

N.E. = Not Established N.A. = Not Applicable MSDS for PSA-1...Page 4

Revision: 1

Status: Approved & Released MSDS

## Revision History:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	1	Telephone number	11/9/00



## **BJ SERVICES COMPANY** MATERIAL SAFETY DATA SHEET

Region:

USA

## SECTION I - GENERAL INFORMATION

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE: SUPPLIER:

ADDRESS:

**EMERGENCY TELEPHONE NUMBER** 

PREPARED BY:

DATE PREPARED:

PSA-2L

488165

Alkoxylated alcohols

Component

BJ Services Company 5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(703)527-3887 for International BJ Services Environmental Group

(281)351-8131

July 9, 2001

Supersedes: November 9, 2000

**HMIS HAZARD INDEX** 

**HEALTH:** 

2 1

FLAMMABILITY: REACTIVITY:

PERSONAL PROTECTION: i

## **SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Poly (oxy-1,2-ethanediyl)	24938-91-8	100	None

## SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

> 300°F (COC)

UPPER EXPLOSION LIMIT(% BY VOL): LOWER EXPLOSION LIMIT(% BY VOL):

N.A. N.A.

**AUTO-IGNITION TEMPERATURE:** 

N.E.

**EXTINGUISHING MEDIA:** 

Alcohol foam, carbon dioxide, dry chemical, water foa Do not enter a fire area without proper protective equipment, including NIOSH/MSHA approved.

SPECIAL FIRE FIGHTING PROCEDURES:

self-contained breathing apparatus. Use water spray to cool containers exposed to fire. Avoid exposure to

vapors.

N.E.

**EXPLOSION DATA:** 

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide, carbon dioxide

## **SECTION IV - HEALTH HAZARD DATA**

N.E. = Not Established

N.A. = Not Applicable

MSDS for PSA-2L...Page 1

PRIMARY ROUTES OF ENTRY: Eye and skin contact

**ACUTE OVEREXPOSURE EFFECTS:** 

SKIN CONTACT:

May cause skin irritation.

SKIN ABSORPTION:

Not expected to be absorbed through the skin under normal

EYE CONTACT:

Eye contact may cause irritation and redness.

INHALATION: INGESTION:

Not expected to be harmful by inhalation under normal conditions. Not considered to be a likely route of exposure, however, may be

harmful if swallowed.

CHRONIC OVEREXPOSURE EFFECTS: No known effects

**EXPOSURE LIMITS:** 

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Poly (oxy-1,2-ethanediyl)	N.E.	N.E.

### CARCINOGENICITY, REPRODUCTIVE EFFECTS:

IARC has identified EtO as a "human carcinogen (Group 1); human evidence is limited; animal evidence is sufficient". EtO has been listed as an "anticipated carcinogen" by the NTP.

#### TERATOGENICITY, MUTAGENICITY:

No effects listed

**TOXICITY STUDIES:** 

LD(50)

N.E.

LC(50)

N.E.

## SECTION V - FIRST AID PROCEDURES

Immediately flush with plenty of water for at least 15 minutes. If irritation FOR EYES:

persists, contact a physician.

FOR SKIN: Flush all affected areas with plenty of water for several minutes. Remove and

wash any contaminated clothing and shoes. Get medical attention if skin

FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. Keep

person warm, quiet and get medical attention.

If swallowed, seek medical attention. Only induce vomiting at the instructions of FOR INGESTION:

medical personnel. Never give anything by mouth to an unconscious person.

## **SECTION VI - PHYSICAL DATA**

Clear, colorless to amber liquid with mild polyether odor APPEARANCE AND ODOR:

SPECIFIC GRAVITY: 0.98 at 77°F

VAPOR PRESSURE: N.E. VAPOR DENSITY (air≈1): > 1 **EVAPORATION RATE:** N.A. 485°F **BOILING POINT:** 24°F FREEZING POINT:

SOLUBILITY IN H20: Insoluble

6-8 (5% aqueous solution) pH:

N.E. = Not Established

N.A. = Not Applicable

MSDS for PSA-2L...Page 2

## **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY:

Stable

INCOMPATIBLE MATERIALS:

Oxidizers, temperature extremes

HAZARDOUS POLYMERIZATION:

Does not polymerize

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide

## SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION:

The use of mechanical ventilation is recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is

natural air movement.

RESPIRATORY PROTECTION:

As needed use an air purifying, full facepiece respirator with an

organic vapor cartridge.

PROTECTIVE GLOVES:

Chemical resistant

EYE PROTECTION:

Goggles

OTHER PROTECTIVE EQUIPMENT:

Eyewash bottles or other rinsing equipment should be easily

accessible.

## **SECTION IX - HANDLING PRECAUTIONS**

LEAK AND SPILL PROCEDURES:

Dike or contain spill to prevent material from entering

waterways. Pump large spills into salvage containers. Soak up residue or small spills with absorbent pads, clay, or dirt and

place in salvage containers.

WASTE DISPOSAL:

If this product becomes a waste, it does not meet the

requirements of a RCRA hazardous waste. Always dispose of

according to all local/state/ and federal regulations.

HANDLING & SPECIAL EQUIPMENT:

STORAGE REQUIREMENTS:

Do not get in eyes, on skin or clothing.

Store in a cool, dry, well-ventilated area.

## **SECTION X - REGULATORY INFORMATION**

#### SHIPPING INFORMATION

PROPER SHIPPING NAME:

Not DOT Regulated

HAZARD CLASS:

N.A.

UN/NA NUMBER:

N.A.

PACKING GROUP W/ "PG": SUBSIDIARY RISK:

N.A.

REPORTABLE QUANTITY (RQ):

N.A.

**EMERGENCY RESPONSE GUIDE #:** 

N.A.

## **ENVIRONMENTAL INFORMATION**

#### SARA TITLE III

SECTION 302/304

This product does not contain ingredients listed as an Extremely

Hazardous Substance.

**SECTION 311/312** 

Immediate

SECTION 313

This product does not contain ingredients (at a level of 1% or greater) on

the List of Toxic Chemicals.

#### OTHER REGULATORY INFORMATION

TSCA INVENTORY:

All of the components in this product appear on the TSCA

inventory.

**CALIFORNIA PROP 65:** 

This product contains trace amounts of ethylene oxide (EtO) and

1,4-dioxane, chemicals known to the State of California to cause

cancer and/or birth defects or reproductive harm.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

Revision: 1

Status: Approved & Released MSDS

#### **Revision History:**

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	All	General revision	07/09/01

District †
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

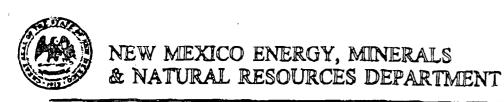
State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division MAR 20 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 ACCES	I DODLE, WIRDID
1. DCDA Evernati	74! [Generator: Coastal Chemical Co.,
1. RCRA Exempt: ☐ Non-Exempt: ☑	·
Verbal Approval Received: Yes 🗌 No 🖂	5. Originating Site: WFS Cedar Hill Compressor Station
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) Sec 28, T32N, R10W	Project #95007-008
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by	y 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 n material is not-hazardous and the Generator's certification of origin. No waste c approved	necessary chemical analysis to PROVE the classified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	
BRILL DESCRIPTION OF MATERIAL.	
Soil contaminated with new Mobil Pegasus 485 engine oil spilled when a ho	ose came off of a pump.
CWS and MSDS attached.	
Estimated Volume 3cy Known Volume (to be entered by the operator at the end of the	he haul)cy
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Charles to the property of the Charles the comment of the comment of the comment of the comment of the comment
SIGNATURE JACK JOURSO TITLE: Environmental Waste Management Pacifity Authorized Agent	Administrative Assistant DATE: 02/22/02
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	<u>5</u>
(This space for State Use)	
APPROVED BY: 1 Cent TITLE: Enviro/	Engr DATE: 03/18/03
APPROVED BY Menting 135h - TITLE: Env. wohard	1 Geologist DATEOS/28 63



OIL CONSERVATION DIVISION AZTEC DISTRICT DEFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (508) 334-6178 Pax (505)334-617

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:					
Coastal Chemical Co., LLC	Envirotech Soil Remediation Facility					
[130 Madison Ln Francisco NM 8740 ( 3. Originating Site (name):	Landfarm #2 Hilltop, New Mexico					
Famination NA 8740 (						
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):					
Williams Field Service	, Sucas Taan RIOW					
Cedar Will Compressor Stat	מלי					
Cedar Hill NM						
Attach list of originating sites as appropriate						
4. Source and Description of Waste	to the an Advision has					
Spilled Mobil Pegasus 4	185 on the ground due to a hose w product.					
Coming of of	w product.					
and on a brush.						
Mills C	and the second s					
(Print Name)	representative for:					
Constal Chemical Co. LLC	do hereby certify that,					
according to the Resource Conservation and Recover	ry Act (RCRA) and Environmental Protection Agency's July,					
1988, regulatory determination, the above described	Waste is: (Check appropriate classification)					
EXEMPT oilfield waste NON-EXEM	IPT oilfield waste which is non-hazardous by characteristic					
	by product identification					
	hand a second of the state of the second					
and that nothing has been added to the exempt or no	n-exempt non-nazardous waste defined above.					
For NON-EXEMPT waste the following documenta	tion 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 I	Naturally Occurring Radioactive Material (NORM) pursuant					
to 20 NMAC 3.1 subpart 1403.C and D.	•					
Name (Original Signature):	ni.					
Title: Facility Manager						
Date: 3-10-03	· · · · · · · · · · · · · · · · · · ·					
	TOTAL P 12					

#### 605816-00 MOBIL PEGASUS 485 MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME: MOBIL PEGASUS 485 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 (Primary) CHEMTREC: 800-424-9300 (Secondary) 281-834-3296 Product and Technical Information: 800-662-4525 703-846-6693 MSDS Fax on Demand: 613-228-1467, other MSDS information: 856-224-4644 2. COMPOSITION/INFORMATION ON INGREDIENTS \_\_\_\_\_\_\_ CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES GLOBALLY REPORTABLE MSDS INGREDIENTS: Substance Name Approx. Wt% \_\_\_\_\_ SULFONIC ACIDS, PETROLEUM, 1-5 CALCIUM SALTS (SYNTHETIC) (61789-86-4) See Section 8 for exposure limits (if applicable). 3. HAZARDS IDENTIFICATION \_\_\_\_\_\_ Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines (See section 15). EMERGENCY OVERVIEW: Dark Amber Liquid. DOT ERG No. : NA POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. For further health effects/toxicological data, see Section 11. 4. FIRST AID MEASURES \_\_\_\_\_\_\_ EYE CONTACT: Flush thoroughly with water. If irritation occurs, call SKIN CONTACT: Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. (See Section 16 - Injection Injury) INHALATION: Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to

excessive vapor or mist exposure, seek immediate medical

assistance. If breathing has stopped, assist ventilation with a

mechanical device or mouth-to-mouth resuscitation.
INGESTION: Not expected to be a problem. Seek medical attention if
discomfort occurs. Do not induce vomiting.

#### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

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

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

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

-----

#### 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and 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: Dark Amber

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 288(550)

MELTING POINT C(F): NA

FLASH POINT C(F): > 232(450) (ASTM D-92)

FLAMMABILITY (solids): NE AUTO FLAMMABILITY: NA EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.887 SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: > 3.5 VISCOSITY AT 40 C, cSt: 126.0

VISCOSITY AT 100 C, cSt: 13.3

POUR POINT C(F): < -15(5)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only

NA=NOT APPLICABLE NE=NOT 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

TI. 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 performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.
- ---SUBCHRONIC TOXICOLOGY (SUMMARY)--No significant adverse effects were found in studies using repeated
- dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).
  - --- REPRODUCTIVE TOXICOLOGY (SUMMARY) ---
- No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.

#### ---CHRONIC TOXICOLOGY (SUMMARY)---

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

---SENSITIZATION (SUMMARY)---

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

#### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

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

\_\_\_\_\_\_

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

\_\_\_\_\_

#### 14. TRANSPORT INFORMATION

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

## 45 DECHI ATODY INFORMATION

#### 15. REGULATORY INFORMATION

\_\_\_\_\_\_

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

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

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

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

SARA (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) (<0.03%) 7440-66-6 22

PHOSPHORODITHOIC ACID, O,O-DI 68649-42-3 2

C1-14-ALKYL ESTERS, ZINC SALTS (2:

1) (ZDDP) (0.26%)

--- 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

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.

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. Appropiate 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 18 19 2

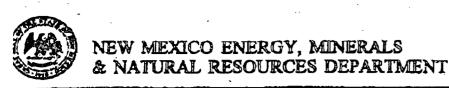
Oil Conservation Division
1220 South St. Francis Dr. MAR 2003
Santa Fe, NM 87505

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 Cudd Pressure Control
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Cudd Yard
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 3650 Bloomfield Highway, Farmington	Project # 01047-002
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 clapproved</li> </ul>	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	
Contaminated soil from various diesel spills/leaks generated at yard cleanup	
CWS & MSDS attached.	
Estimated Volumecy Known Volume (to be entered by the operator at the en	nd of the haul)cy
SIGNATURE JUNIO RELIGIONATURE Facility Authorized Agent Fittle: Environmental	Administrative Assistant DATE: 09/09/02
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	\$087£0
(This space for State Use)  APPROVED BY: Deny Keen TITLE: Env No	of Eng DATE: 03/18/03
APPROVED BY: Monty g My TITLE: Environment	1606x15+ DATE: 03/28/03



OL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1800 RIO BRAZOS ROAD AZTEC, NEW MEXICO \$7410 (808) 334-6178 Fax (305)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

1, Generator Name and Address:	2. Destination Name:
Mad Krosswo Chritral	Envirotech Soil Remediation Facility
3650 Bloomfield Hwy	Landfarm #2 Hilltop, New Mexico
Farmington nm 87401	naritop, new nexteo
3 Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Cudd Pressure Control	2150 Bloomfuld Hwy
yard -	3650 Bloomfield Hwy Farmington, nm 87401
	Jackand Constitute 21401
Attach list of originating sites as appropriate  4. Source and Description of Wasto	
4. Source and Description of Wasto	0.010 2.01000
4. Source and Description of Wasto  Yard Clanup-Dulsel 3	faces fulaxe.
	·
1, Jack Arnstrang	representative for:
Cudd Pressure Course	de hombu engit, shae
according to the Resource Conservation and Recover	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
PYTAIRT STEEL WAS AND AND SYCH	ADT allfield wants which is see herostage by characteristic
	IPT oilfield waste which is non-hazardous by characteristic by product identification
•	
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentar	tion is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
	laturally Occurring Radioactive Meterial (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	•
Name (Original Signature) ( CC /6 ( MW	Itu
Name (Original Signature): Jcc 15 Cm	thy
	thy
Name (Original Signature): Jcc / (Jww.)  Title: MANA GC R  Date: 3-14-03	thy

## 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

FPA I ow Sulfur Diesel Fuel EPA Low Sulfur Diesel Fuel - Dved 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:

Phillips 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) 356-3129

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

NFPA Hazard Class:

**HMIS Hazard Class** 

Health:

0 (Least)

Flammability: 2 (Moderate)
Reactivity: 0 (Least)

Not Evaluated

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	% VOLUME	EXPOSU	RE GUIDELINE	
		<u>Limits</u>	<u>Адепсу</u>	<u>Type</u>
Diesel Fuel No. 2 CAS# 68476-34-6	100	100* mg/m3	ACGIH	TWA-SKIN
Naphthalene CAS# 91-20-3	<1	10 ppm 15 ppm 10 ppm 250 ppm	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 acutely 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, nausea, 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.

<sup>\*</sup>Proposed ACGIH (1999)

No. 2 Diesel Fuel (MSDS #0041) Page 3 of 7

Pre-Existing Medical Conditions: and kidney disorders.

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:** 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°C

OSHA 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

No. 2 Diesel Fuel (MSDS #0041) Page 4 of 7

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 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).

## 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 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.

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.

"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 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 may

No. 2 Diesel Fuel (MSDS #0041) Page 5 of 7

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 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 (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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance: Straw-colored to dyed red

Physical State: Liquid

Odor: Characteristic petroleum

pH: Not applicable

Vapor Pressure (mm Hg): 0.40 Vapor Density (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/pal

Bulk Density: 7.08 lbs/gal Flash Point: >125°F / >52°C

Flammable/Explosive 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 exidents such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

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. ACG/H has included a TLV of 0.05 mg/m3 TWA for diesel

No. 2 Diesel Fuel (MSDS #0041) Page 6 of 7

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 a 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 than the federal requirements.

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, NA1993

Non-Bulk Package Marking:

Diesel Fuel,3,NA1993,III

## 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

#### 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

Cancer, Developmental and Reproductive Toxicant

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.

## **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 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.