UIC-I-005

C-138

Date: 1998

P. O. 1980
Hobbs, NM 88241-19
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], NM 87410
District IV - (505) 827-7131

Ener[illegible] ew [illegible]exico
[illegible]inerals and Natural Resources [illegible]artment
Oil Conservation Divi[illegible]ion
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
JUN 21 1998
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site MALLON, JICARILLA 464-30 #10
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500, AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) SEC 30, TOWNSHIP 30N RANGE 3W	

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:

UNUSED FRAC FLUID

FLUID BREAK DOWN: 2% KCL - 7,000 GAL
METHANOL - 3,000 GAL
GW-27 (GEL) - 300 lbs
CLAY MASTER 5C - 10 GAL
XCIDE - 207 — 4 lbs

RECEIVED
JUN 18 1998
OIL CON. DIV.
DIST. 3

6/22/98 Sent to Aztec

Estimated Volume 265 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] TITLE: MANAGER DATE: 6-16-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: [signature] TITLE: Geologist DATE: 6/18/98

APPROVED BY: [signature] TITLE: Env. Geologist DATE: 6/22/98

316

P. O. Box 15
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Verbal Approval Received: Yes ☐ No ☒	5. Originating Site MALLON, JICARILLA 464-30 #10
2. Management Facility Destination SUNCO Disposal	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500, Aztec NM	8. State NM
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X CIDE - 207 - 4 lbs

RECEIVED
JUN 18 1998
OIL CON. DIV.
DIST. 3

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SIGNATURE: Michael Talovich TITLE: MANAGER DATE: 6-16-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/18/98

APPROVED BY: Martyne J. Kelly TITLE: Env. Geologist DATE: 6/22/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Verbal Approval Received: Yes ☐ No ☒	5. Originating Site MALLON, JICARILLA 464-30 #10
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CLAY MASTER 5C - 10 GAL
XCIDE - 207 — 4 lbs

RECEIVED
JUN 18 1998
OIL CON. DIV.

Estimated Volume 265 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: MANAGER DATE: 6-16-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: _____ TITLE: Geologist DATE: 6/18/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator (Name): Address:	3. Location (Street Address &/or ULSTR):
BJ Services 3250 South River Rd. Farmington, NM 87401	Jicarilla 464 30 #10
2. Originating Site (Name):	4. Destination Name:
Mallon Oil	Sunco Disposal

5. Source and Description of Waste UNUSED frac fluids

I, Jim Russell representative for: BJ Services 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-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by production identification

For Non-exempt waste only the following documentation is attached (check appropriate items):

___✓___ MSDS Information
___ RCRA TCLP Analysis
___ Chain of Custody
___ Other (Description)

Name (Signature): Jim Russell

Printed Name: Jim Russell

Title: Technical Representative

Date: 06/12/98

Attach list of originating sites as appropriate.

BJ SERVICES
MATERIAL SAFETY DATA SHEET

XCIDE - 207

HMIS HAZARD INDEX

HEALTH:	3
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	d

SECTION I - GENERAL INFORMATION

PRODUCT NAME	XCIDE - 207
ITEM NUMBER	100486, 425131
CHEMICAL DESCRIPTION	A dry blend of 5-chloro,2-methyl,4isothiazolin,3-one and 2-methyl,4-isothiazolin,3-one in an inert substrate
PRODUCT USE	Biocide for fracturing
SUPPLIER	BJ SERVICES COMPANY
ADDRESS	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 (713)351-0773
DATE PREPARED	March 12, 1996 Supersedes: April 18, 1995

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
5-chloro,2-methyl, 4-isothioazilin,3-one	26172-55-4	5-10	Corrosive
2-methyl,4-isothiazolin, 3-one	2682-20-4	1-5	Corrosive
Magnesium chloride	7786-30-3	5-10	Irritant
Magnesium nitrate	10377-60-3	5-10	Irritant
Crystalline silica (quartz)	14808-60-7	0.1-1	Irritant
Diatomaceous earth	61790-53-2	30-60	Irritant

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION	>200°F (SFCC)
UPPER EXPLOSION LIMIT(% BY VOL)	N.A.
LOWER EXPLOSION LIMIT(% BY VOL)	N.A.
AUTO-IGNITION TEMPERATURE	N.A.

HMIS HAZARD INDEX

HEALTH:	3
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	d

CHRONIC OVEREXPOSURE EFFECTS.... Repeated skin contact may produce an allergic sensitization. Prolonged repeated or high exposures may cause chemical pneumonitis and, in extreme cases, pulmonary edema. Crystalline silica is known to cause silicosis. A component(s) of this product has been reported to cause contact dermatitis and depigmentation on prolonged or repeated contact.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
5-chloro,2-methyl, 4-isothioazilin,3-one	N.E.	N.E.
2-methyl,4-isothiazolin, 3-one	N.E.	N.E.
Magnesium chloride	N.E.	N.E.
Magnesium nitrate	N.E.	N.E.
Crystalline silica (quartz)	0.05mg/m^3	0.1mg/m^3
Diatomaceous earth	10mg/m^3	6mg/m^3

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..... Immediately flush with plenty of water for at least 15 minutes. Contact a physician.

HMIS HAZARD INDEX

HEALTH:	3
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	d

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 Cartridge or Cannister Respirator Organic Vapor
PROTECTIVE GLOVES.....	Rubber or Neoprene
EYE PROTECTION.....	Goggles
OTHER PROTECTIVE EQUIPMENT.....	Eyewash bottles or other rinsing equipment should be easily accessible. Apron

SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES.....	Dike or contain spill to prevent product from entering waterways. Take care to prevent airborne dust and scattering. Absorb using hypochlorite solution* in combination with inert material and transfer to salvage containers. * Recommended formulation: 8 lbs calcium hypochlorite (HTH 65% active ingredient), 5 lbs sodium hydroxide 50% and 77 lbs water. Sodium hydroxide must be added to maintain alkalinity and prevent evolution of chlorine gas.
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.

BJ SERVICES
MATERIAL SAFETY DATA SHEET

XCIDE - 207

HMIS HAZARD INDEX

HEALTH:	3
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	d

SECTION XI - REVISIONS

SECTION #	REVISION
III	Hazardous combustion products
IV	ACGIH TLV
IX	Leak and Spill

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.

BJ SERVICES
MATERIAL SAFETY DATA SHEET

POTASSIUM CHLORIDE (KCL)

HMIS HAZARD INDEX

HEALTH:	0
FLAMMABILITY:	0
REACTIVITY:	0
PERSONAL PROTECTION:	b

SECTION I - GENERAL INFORMATION

PRODUCT NAME	POTASSIUM CHLORIDE (KCL)
ITEM NUMBER	428048, 100114
CHEMICAL DESCRIPTION	Potassium Chloride CAS # 7447-40-7
PRODUCT USE	Fracturing brine, cementing accelerator
SUPPLIER	BJ SERVICES COMPANY
ADDRESS	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 (713)351-0773
DATE PREPARED	December 1992 Supersedes: February 1990

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
None	N.A.	N.A.	N.A.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION	N.A.
UPPER EXPLOSION LIMIT(% BY VOL)	N.A.
LOWER EXPLOSION LIMIT(% BY VOL)	N.A.
AUTO-IGNITION TEMPERATURE	N.A.
EXTINGUISHING MEDIA	Does not support combustion
SPECIAL FIRE FIGHTING PROCEDURES	NON FLAMMABLE
EXPLOSION DATA	N.A.
HAZARDOUS COMBUSTION PRODUCTS	N.A.

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY..... SKIN CONTACT
EYE CONTACT
INHALATION
INGESTION

HMIS HAZARD INDEX

HEALTH:	0
FLAMMABILITY:	0
REACTIVITY:	0
PERSONAL PROTECTION:	-b

FOR INHALATION..... Remove to fresh air.
If breathing is labored, give oxygen.
If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

FOR INGESTION..... Give plenty of water.
INDUCE VOMITING!
Never give anything by mouth to an unconscious or convulsing person.
SEEK MEDICAL ATTENTION IMMEDIATELY!

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR.....	White, crystalline material, no odor
SPECIFIC GRAVITY.....	1.99
VAPOUR PRESSURE.....	N.A.
VAPOUR DENSITY (air=1).....	N.A.
EVAPORATION RATE.....	N.A.
BOILING POINT.....	N.A.
FREEZING POINT.....	N.A.
SOLUBILITY IN H20.....	Complete
pH.....	9.2 (1% Solution)

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY.....	Stable
INCOMPATIBLE MATERIALS.....	N.A.
HAZARDOUS POLYMERIZATION.....	DOES NOT POLYMERIZE
HAZARDOUS DECOMPOSITION PRODUCTS	N.A.

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.

HMIS HAZARD INDEX

HEALTH:	0
FLAMMABILITY:	0
REACTIVITY:	0
PERSONAL PROTECTION:	b

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..... None of the chemicals on the current Proposition 65 list are known to be present in this product.

SECTION XI - REVISIONS

SECTION #	REVISION
X	Shipping information added

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BJ SERVICES
MATERIAL SAFETY DATA SHEET

METHANOL

HMIS HAZARD INDEX

HEALTH:	3
FLAMMABILITY:	4
REACTIVITY:	0
PERSONAL PROTECTION:	h

SECTION I - GENERAL INFORMATION

PRODUCT NAME	METHANOL
ITEM NUMBER	425335, 100102
CHEMICAL DESCRIPTION	Methyl Alcohol
PRODUCT USE	Solvent
SUPPLIER	BJ SERVICES COMPANY
ADDRESS	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 (713)351-0773
DATE PREPARED	December 1992 Supersedes: March 1992

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Methanol	67-56-1	100	Flammable, toxic

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION	52-53 ^{o}F
UPPER EXPLOSION LIMIT(% BY VOL)	36.5
LOWER EXPLOSION LIMIT(% BY VOL)	6
AUTO-IGNITION TEMPERATURE	N.E.
EXTINGUISHING MEDIA	Dry chemical, CO_2, foam or water spray.

SPECIAL FIRE FIGHTING PROCEDURES

Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

Cool fire-exposed containers using water spray.

HMIS HAZARD INDEX

HEALTH:	3
FLAMMABILITY:	4
REACTIVITY:	0
PERSONAL PROTECTION:	h

INHALATION..... Prolonged or repeated exposure of very high concentrations may cause headaches, nausea, vomiting, dizziness, visual disturbances, giddiness, intoxication, sleepiness, unconsciousness and death. Initial symptoms may only be mild intoxication but may become more severe after 12-18 hours. Toxic effects are exerted on the central nervous system, especially the optic nerve.

INGESTION..... Ingestion of 100-200 ml can be fatal. Lesser quantities can cause blindness, dizziness, headaches or nausea. Absorption of methanol is rapid but excretion is slow, resulting in delayed effects or compounding effects of repeated exposure.

CHRONIC OVEREXPOSURE EFFECTS.... Prolonged or repeated exposure to methanol may result in CNS damage, blindness, damage to pancreas or death.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Methanol	200 ppm	200 ppm

CARCINOGENICITY, REPRODUCTIVE EFFECTS..... Not listed as carcinogen - IARC, NTP OR OSHA

TERATOGENICITY, MUTAGENICITY.... No effects listed.

TOXICITY STUDIES

LD(50)..... 5628 mg/kg (oral rat)

LC(50)..... 64000 ppm/4hr (inhal rat)

SECTION V - FIRST AID PROCEDURES

HMIS HAZARD INDEX

HEALTH:	3
FLAMMABILITY:	4
REACTIVITY:	0
PERSONAL PROTECTION:	h

FOR INGESTION..... If conscious, immediately induce vomiting by giving 2 glasses of water and sticking a finger down the throat. Get immediate medical attention. After patient has vomited have him drink milk, water or sodium bicarbonate in water(1tsp/1qt).

NOTE TO PHYSICIAN: Methanol must be removed promptly from the stomach by the induction of vomiting or gastric lavage. The use of 1-3% sodium bicarbonate in water as the lavage solution has been recommended as a counteractant to metabolic acidosis.

Medical care must emphasize the control of acidosis and the use of intravenous bicarbonate has been lifesaving. Evidence is good that treatment of methanol absorption is enhanced through the administration of ethanol to produce a blood level of 0.1%. Ethanol diminishes the production of toxic metabolites of methnaol. Blood methanol level of 50 mg/100 ml is an indication for hemodialysis, which has improved the prognosis of methanol intoxication.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR..... Clear, colorless liquid, mild alcohol odor

SPECIFIC GRAVITY..... 0.79
VAPOUR PRESSURE..... 96-100
VAPOUR DENSITY (air=1)..... 1.1
EVAPORATION RATE..... >2
BOILING POINT..... 148 ^{o}F
FREEZING POINT..... -144 ^{o}F
SOLUBILITY IN H20..... Soluble
pH..... N.A.

SECTION VII - REACTIVITY DATA

HMIS HAZARD INDEX

HEALTH:	3
FLAMMABILITY:	4
REACTIVITY:	0
PERSONAL PROTECTION:	h

WASTE DISPOSAL.....	If this product becomes a waste it meets the requirements of a RCRA hazardous waste with the waste code D001, U154. Always dispose of according to local/state/federal regulations.
HANDLING PROCEDURES & SPECIAL EQUIPMENT.....	Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Wash thoroughly after handling.
STORAGE REQUIREMENTS.....	Store in a cool, dry, well-ventilated place away from incompatible materials. Keep away from heat, sparks and open flames. Vent container frequently, and more often in warm weather to relieve pressure. Keep tightly closed when not in use.

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

PROPER SHIPPING NAME.....	Methyl Alcohol
HAZARD CLASS.....	3
UN/NA NUMBER.....	UN 1230
PACKING GROUP W/ "PG".....	PG II
SUBSIDIARY RISK.....	Poison label required
REPORTABLE QUANTITY (RQ).....	5000/2270
EMERGENGY GUIDE RESPONSE #...	131

ENVIRONMENTAL INFORMATION

SARA TITLE III

SECTION 302/304.....	This product does not contain ingredients listed as an Extremely Hazardous Substance.
SECTION 311/312.....	IMMEDIATE & FIRE

BJ SERVICES
MATERIAL SAFETY DATA SHEET

CLAY MASTER 5C

HMIS HAZARD INDEX

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	d

SECTION I - GENERAL INFORMATION

PRODUCT NAME	CLAY MASTER 5C
ITEM NUMBER	499808
CHEMICAL DESCRIPTION	Quaternary Polyamines
PRODUCT USE	Clay control
SUPPLIER	BJ SERVICES COMPANY
ADDRESS	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 (713)351-0773
DATE PREPARED	December 19, 1995

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
No hazardous ingredients	N.A.	N.A.	N.A.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION	>200°F (PMCC)
UPPER EXPLOSION LIMIT(% BY VOL)	N.E.
LOWER EXPLOSION LIMIT(% BY VOL)	N.E.
AUTO-IGNITION TEMPERATURE	N.E.
EXTINGUISHING MEDIA	Dry chemical, CO_2, water spray or regular foam
SPECIAL FIRE FIGHTING PROCEDURES	This material may burn, but does not readily ignite. Move container from fire area if you can do so without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of containers.
EXPLOSION DATA	None listed
HAZARDOUS COMBUSTION PRODUCTS	May form oxides of carbon, nitrogen, and chlorine

HMIS HAZARD INDEX

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	d

FOR INGESTION..... DO NOT INDUCE VOMITING. Give large amounts of water or milk to drink. Consult a physician for further instructions.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR.....	Clear amber liquid
SPECIFIC GRAVITY.....	1.144
VAPOUR PRESSURE.....	N.E.
VAPOUR DENSITY (air=1).....	N.E.
EVAPORATION RATE.....	N.E.
BOILING POINT.....	N.E.
FREEZING POINT.....	N.E.
SOLUBILITY IN H20.....	Soluble
pH.....	7

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY.....	Stable
INCOMPATIBLE MATERIALS.....	Strong oxidizers
HAZARDOUS POLYMERIZATION.....	DOES NOT POLYMERIZE
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of carbon, nitrogen, and chlorine

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.....	None required under normal conditions. Use SCBA when entering tanks.
PROTECTIVE GLOVES.....	Chemically resistant/non-slip
EYE PROTECTION.....	Chemical safety goggles/safety glasses
OTHER PROTECTIVE EQUIPMENT.....	Coveralls, splash aprons, eyewash bottles or other rinsing equipment should be easily accessible.

HMIS HAZARD INDEX

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	d

OTHER REGULATORY INFORMATION

TSCA INVENTORY..... All of the components in this product 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.

SECTION XI - REVISIONS

SECTION #	REVISION
new	

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BJ SERVICES
MATERIAL SAFETY DATA SHEET

GW - 27

HMIS HAZARD INDEX

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	e

SECTION I - GENERAL INFORMATION

PRODUCT NAME	GW - 27
ITEM NUMBER	488003, 424255
CHEMICAL DESCRIPTION	Galacto-mannan blend
PRODUCT USE	Aqueous Gellant
SUPPLIER	BJ SERVICES COMPANY
ADDRESS	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 (713)351-0773
DATE PREPARED	December 1992 Supersedes: April 1990

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Guar gum	9000-30-0	95.9	Irritant
Aliphatic carboxylic acid	**		Irritant
Alkaline metal oxide	**		Irritant

**Specific identity withheld as a trade secret

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION	N.A.
UPPER EXPLOSION LIMIT(% BY VOL)	N.A.
LOWER EXPLOSION LIMIT(% BY VOL)	N.A.
AUTO-IGNITION TEMPERATURE	360 ^{o}C
EXTINGUISHING MEDIA	Dry chemical, CO_2, foam or water spray.
SPECIAL FIRE FIGHTING PROCEDURES	None
EXPLOSION DATA	Dust may form explosive mixture with air.
HAZARDOUS COMBUSTION PRODUCTS	Carbon monoxide, carbon dioxide and smoke.

HMIS HAZARD INDEX

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	e

TOXICITY STUDIES

LD(50)	7060 mg/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 is labored, give oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.
FOR INGESTION	Give plenty of water. INDUCE VOMITING! Never give anything by mouth to an unconscious or convulsing person. Call a physician.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR	Light tan powder, mild odor.
SPECIFIC GRAVITY	2.0
VAPOUR PRESSURE	N.A.
VAPOUR DENSITY (air=1)	N.A.
EVAPORATION RATE	N.A.
BOILING POINT	N.A.
FREEZING POINT	N.A.
SOLUBILITY IN H20	Forms Gel
pH	5.0 - 6.0 (1% solution)

HMIS HAZARD INDEX

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	e

HANDLING PROCEDURES & SPECIAL EQUIPMENT..... Avoid breathing dust. Surfaces dusted with this product can become slippery when wet.

STORAGE REQUIREMENTS..... Store in sealed containers away from heat and light to protect quality.

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.
EMERGENGY GUIDE RESPONSE #... 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..... None of the chemicals on the current Proposition 65 list are known to be present in this product.

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-13
Originated 8,

Submit Origir
Plus 1 Cc
to appropria
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☑ Non-Exempt: ☐	4. Generator Williams
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site ELCEDRO COMPLEX
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR3500, AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) ELCEDRO COMPLEX HWY 64 MM 100.5 BLANCO, NM 87412	

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:

95% RAINWATER, 2.5% AMINE, 2.5% TREATING TEG

RECEIVED
JUN 10 1998
OIL CON. DIV.
DIST.

Estimated Volume 1600bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: MANAGER DATE: 6-10-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/10/98

APPROVED BY: Ernie Busch TITLE: " DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Williams Field Service El Cedro Complex Hwy 64 Mile Marker 100.5 Blanco, N.M. 87412	SunCo Disposal
3. Originating Site (name): El-Cedro Complex Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste: Amine Treating 95% Rain water 2.5% Amine 2.5% Treating TEC	

I, Bill Hargis (Print Name) representative for:

WFS 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)

X **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 only the following documentation is attached (check appropriate items):

___ MSDS Information

___ RCRA Hazardous Waste Analysis

___ Chain of Custody

___ Other (description):

Name (Original Signature): Bill Hargis

Title: Operator

Date: 6/9/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-13
Originated 8/8/9

Submit Origir
Plus 1 Cc
to appropria
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Key four Corners Inc
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site DIESEL STORAGE TANK
2. Management Facility Destination SUNCO WASTE MANAGEMENT FACILITY	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) CROUCH MESA YARD	

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:
LEFTOVER DIESEL FUEL MIXED WITH CITY WATER
(RINSE OUT OF OLD FUEL TANK)

RECEIVED
MAY - 4 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: MGR DATE: 4-30-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: _____ TITLE: Geologist DATE: 5/4/98

APPROVED BY: _____ TITLE: Env Geologist DATE: 5/15/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Key four Corners INC 5651 US 64	SUNCO WASTE MANAGEMENT FACILITY

3. Originating Site (name): DIESEL STORAGE TANK AT CROUCH MESA YARD

Location of the Waste (Street address &/or ULSTR): CR 3500

Attach list of originating sites as appropriate

4. Source and Description of Waste

DIESEL STORAGE TANK — LEFT OVER DIESEL FUEL MIXED WITH City water

I, HAL STONE (Print Name) representative for:

Key Four Corners, INC. 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

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 only the following documentation is attached (check appropriate items):

X MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
X Other (description):

Name (Original Signature): Hal Stone

Title: General Manager - Trucking Division

Date: 4-27-98

GASC0220 Revised 17-NOV-1995 Printed 8-APR-1998

No. 2 Diesel Fuel

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Corporate MSDS Number	DU007262
CAS Number	68476-34-6

 # Tradenames and Synonyms

Diesel Fuel No. 2, Low Sulfur
Diesel Fuel No. 2, High Sulfur

Company Identification

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
Medical Emergency	1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
DIESEL FUEL, NO. 2	68476-34-6	100

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Routes of Entry: Skin, inhalation

The product may cause irritation to the eyes, nose, throat, lungs, and skin after prolonged or repeated exposure. Extreme overexposure or aspiration into the lungs may cause lung damage or death. Overexposure may cause weakness, headache, nausea,

(Continued)

HAZARDS IDENTIFICATION(Continued)

confusion, blurred vision, drowsiness, and other nervous system effects; greater overexposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.

Combustion Product - Carbon Monoxide:

Carbon monoxide decreases the ability of the blood to carry oxygen.

Inhalation may cause headache, nausea, rapid respirations, vomiting, dizziness, confusion, impaired judgement, personality changes, memory impairment, weakness, shortness of breath, unconsciousness, convulsions and death if not treated. It may cause chest pains in persons with heart disease. Carbon monixde poisoning can cause pallor (whiteness) or cyanosis (blueness) of the skin and extremities.

High exposures to carbon monoxide may cause heart irregularities.

Carbon monoxide may adversely affect the unborn babies of pregnant women.

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.

FIRST AID MEASURES

First Aid
INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

EYE CONTACT

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

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians
Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

(Continued)

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point	130 F (54 C)
Method	TCC
Flammable limits in Air, % by Volume	
LEL	0.4
UEL	6
Autoignition	494 F (257 C)

Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back.

NFPA Classification Class II Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

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. Water spray may be used to flush spills away from sources of potential ignition.

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.

Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. 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.

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, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

NOTE: Vapors released from the spill may create an explosive atmosphere.

(Continued)

ACCIDENTAL RELEASE MEASURES(Continued)

Initial Containment
Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up
Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)
Avoid breathing vapors or mist. Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects)
Ground container when pouring. Keep away from heat, sparks and flames. 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 fire.

Storage
Store in a well ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations. Store away from heat, sparks and flames, oxidizers.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls
Use only with adequate ventilation. Keep container tightly closed.

Personal Protective Equipment
RESPIRATORY PROTECTION
Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposures below acceptable limits. 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. Chemical splash goggles or face shield for spray/mists or if splashing can occur.

OTHER PROTECTIVE EQUIPMENT
Coveralls with long sleeves if splashing is probable.

(Continued)

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

Exposure Guidelines
Exposure Limits
No. 2 Diesel Fuel

PEL	(OSHA)	None Established
TLV	(ACGIH)	None Established

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	350-690 F (177-366 C)
Vapor Pressure	1 mm Hg @ 68 F (20 C)
Vapor Density	>1 (Air=1.0)
% Volatiles	Nil
Solubility in Water	Insoluble
Odor	Aromatic.
Form	Liquid.
Color	*
Specific Gravity	0.84-0.88 @ 60 F (16 C))

*Color : Red or Undyed (Clear or Straw-Colored)

STABILITY AND REACTIVITY

Chemical Stability
Stable at normal temperatures and storage conditions.

Conditions to Avoid
Heat, sparks, and flames.

Incompatibility with Other Materials
Incompatible or can react with strong oxidizers.

Decomposition
Carbon monoxide may be formed from incomplete combustion.

Polymerization
Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data
Animal studies have shown that prolonged or repeated inhalation exposures to high concentrations of some petroleum distillates have caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage and studies reported in 1992 showed that this particular type of rat kidney damage is not useful in predicting a human health hazard. The significance of liver

(Continued)

TOXICOLOGICAL INFORMATION(Continued)

tumors in mice exposed to high doses of chemicals is highly speculative and probably not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range 100-700 F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils. Other laboratory studies indicate that middle distillates caused the skin tumors by promoting, rather than initiating, the formation of tumors, so the effect is probably dose-related and low level exposure should not be carcinogenic.

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lungs and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.

Acute toxicity data from studies supported by the American Petroleum Institute with a generic diesel fuel sample:

Oral, rat	:	LD50 at 9 ml/kg
Dermal, rabbit	:	No mortality at 5 mL/kg
Dermal Irritation, rabbit	:	Extremely irritating
Eye Irritation, rabbit	:	Not irritating

ECOLOGICAL INFORMATION

Ecotoxicological Information
No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal
Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

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.

(Continued)

TRANSPORTATION INFORMATION

Shipping Information

DOT

Proper Shipping Name	Diesel fuel
Hazard Class	Combustible liquid
I.D. No. (UN/NA)	NA1993
Packing Group	III
DOT Label(s)	None
DOT Placard	Combustible

ICAO/IMO

Proper Shipping Name	Gas Oil
Hazard Class	3
UN/NA Number	UN1202
Packing Group	III
Label	Flammable liquid
Placard	Flammable

REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DETERMINATION
This material is 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.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute	: Yes
Chronic	: Yes
Fire	: Yes
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
This material is in the TSCA Inventory of Chemical Substances (40 CFR 710) and/or is otherwise in compliance with TSCA.

RCRA
This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it

(Continued)

REGULATORY INFORMATION(Continued)

meets criteria for being ignitable according to U. S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

CLEAN WATER ACT
The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient	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 ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT
This material may contain the following ingredient(s) subject to the Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient	Diesel Fuel Oil
Category	Hazardous Substance.

Canadian Regulations

CLASS B Division 3 - Combustible Liquid.

CLASS D Division 2 Subdivision B - Toxic Material. Chronic Toxic Effects.

Transport/Medical Emergency Phone Number: 1-613-348-3616

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating	
Health	0
Flammability	2
Reactivity	0

NPCA-HMIS Rating	
Health	1
Flammability	2
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions.

(Continued)

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 Conoco Inc.
Address	PO Box 2197 Houston, TX 77252
Telephone	1-281-293-4386

# Indicates updated section.

End of MSDS

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Key Four Corners Inc
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Pipeyard
2. Management Facility Destination Sunco Waste Management Facility	6. Transporter Sunco
3. Address of Facility Operator #345 CR 3500, Aztec NM	8. State NM
7. Location of Material (Street Address or ULSTR) 3801 So. River Rd Farmington	

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:

Wash water from Cleaning of Frac Tanks

RECEIVED
APR 28 1998
OIL CON. DIV.
DIST. 3

Sent to Aztec 4/30/98

Estimated Volume 400 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich (Waste Management Facility Authorized Agent) TITLE: Manager DATE: 4-27-98

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/28/98

APPROVED BY: [signature] TITLE: Env. Geologist DATE: 4/30/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
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1 Rio Brazos Road
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New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
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Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Key Four Corners Inc
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Pipeyard
2. Management Facility Destination SUNCO WASTE MANAGEMENT FACILITY	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500 Aztec NM	8. State NM
7. Location of Material (Street Address or ULSTR) 3901 S. River Rd Farmington	

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:

Wash water from cleaning of frac tanks

RECEIVED
APR 28 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 400 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] TITLE: Manager DATE: 4-27-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/28/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
KEY FOUR CORNERS INC 5651 U.S. 64, FARMINGTON	SUNCO DISPOSAL

3. Originating Site (name): SUNCO TRUCKING Location of the Waste (Street address &/or ULSTR):

PIPE YARD (TANK CLEANING FACILITY) 3801 SOUTHSIDE RIVER RD FARMINGTON

Attach list of originating sites as appropriate

4. Source and Description of Waste

WASH WATER FROM CLEANING OF FRAC TANKS

I, HAL STONE representative for:
(Print Name)

KEY FOUR CORNERS, INC. 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

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 only the following documentation is attached (check appropriate items):

___ MSDS Information
X RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Hal Stone

Title: GENERAL MANAGER – TRUCKING DIVISION

Date: 4-27-98

Inter·Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

Michael Talovich
Sunco Trucking
708 S. Tucker
Farmington, NM 87401

April 3, 1998

Mr. Talovich:

Enclosed, please find the reports for the samples received by our laboratory for analysis on March 20, 1998.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

We appreciate your business!

Sincerely,

Sharon Williams
Organics Lab Supervisor

Enclosures
xc: File

Inter·Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

CASE NARRATIVE

Date: April 3, 1998

Client: Sunco Trucking

Project: Pipe Yard Sample No. 0398G01388-1389 # Samples: 2

Dear Client:

The sample or samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Due to the nature of the sample matrix for the sludge sample, we were unable to obtain the recommended acceptable Cation/Anion Balance of 5%.

Analytical results were obtained by approved methods. Practical quantitation limits (PQL) were determined for each parameter for various matrices, and standard preparation dilutions. Quantitative results are reported on an "as received" basis for non-aqueous matrices.

If you have any question, please call me at our toll free number 1 (800) 828-1409.

John Green
Water Lab Supervisor
IML-Farmington, NM

Inter-Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

SUNCO TRUCKING

Case Narrative

On March 20, 1998, samples were submitted to Inter-Mountain Laboratories - Farmington for analysis. The samples were identified by project "Pipe Yard", and were analyzed for the parameters indicated on the accompanying Chain of Custody document #51988.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analyses of the samples reported herein are found in Test Methods For Evaluation of Solid Waste, SW-846, USEPA, 1986, and Methods For Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1983.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely,

Sharon Williams
Organics Lab Supervisor

Inter-Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

Client: Sunco Trucking
Project: Pipe Yard
Sample ID: Pipe Yard
Lab ID: 0398G01389
Matrix: Sludge
Condition: Intact

Date Received: 03/20/98
Date Reported: 04/03/98
Date Sampled: 03/20/98
Time Sampled: 1500

Parameter	Analytical Result	Units		Units	PQL	Method	Analysis Date	Time	Init.
General Parameters									
PH	7.6	s.u.			0.1	EPA 150.1	03/20/98	1600	BJ
Electrical Conductivity	3,030	µmhos/cm			10	EPA 120.1	03/20/98	1600	AP
Solids - Total Dissolved	2,240	mg/L			10	EPA 160.1	03/26/98	1340	BJ
Solids - Total Dissolved (Calc)	1,540	mg/L			10	Calculation	04/03/98	1425	JG
Solids-Total	4,480	mg/L			10	EPA 160.3	03/27/98	0910	BJ
Alkalinity (CaCO3)	449	mg/L			1	EPA 310.1	03/24/98	0930	AP
Hardness (CaCO3)	399	mg/L			1	Calculation	04/03/98	1425	JG
Major Anions									
Bicarbonate (HCO3)	547	mg/L	8.97	meq/L	1	EPA 310.1	03/24/98	0930	AP
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Chloride	140	mg/L	3.95	meq/L	1	EPA 300.0	03/26/98	0800	AP
Nitrogen - Nitrate/Nitrite	0.14	mg/L			0.05	EPA 353.2	03/24/98	1430	SH
Sulfate	414	mg/L	8.63	meq/L	5	EPA 300.0	03/26/98	0800	AP
Major Cations									
Calcium	134	mg/L	6.69	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Magnesium	15.6	mg/L	1.28	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Potassium	260	mg/L	6.65	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Sodium	309	mg/L	13.4	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Cation / Anion Balance QC Information									
Anion Sum			21.5	meq/L	0.01	Calculation			
Cation Sum			28.1	meq/L	0.01	Calculation			
Cation/Anion Balance			13.2	%	N/A	Calculation			

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.
EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/100 August, 1983.

Reviewed By: _____

John Green, Water Lab Supervisor

Inter-Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

Client: Sunco Trucking
Project: Pipe Yard
Sample ID: Pipe Yard
Lab ID: 0398G01388
Matrix: Water
Condition: Intact

Date Received: 03/20/98
Date Reported: 04/03/98
Date Sampled: 03/20/98
Time Sampled: 1500

Parameter	Analytical Result	Units		Units	PQL	Method	Analysis Date	Time	Init.
General Parameters									
PH	7.2	s.u.			0.1	EPA 150.1	03/20/98	1600	BJ
Electrical Conductivity	720	µmhos/cm			10	EPA 120.1	03/20/98	1600	AP
Solids - Total Dissolved	430	mg/L			10	EPA 160.1	03/26/98	1340	BJ
Solids - Total Dissolved (Calc)	410	mg/L			10	Calculation	04/03/98	1425	JG
Solids-Total	540	mg/L			10	EPA 160.3	03/27/98	0910	BJ
Alkalinity (CaCO3)	101	mg/L			1	EPA 310.1	03/24/98	0930	AP
Hardness (CaCO3)	213	mg/L			1	Calculation	04/03/98	1425	JG
Major Anions									
Bicarbonate (HCO3)	123	mg/L	2.02	meq/L	1	EPA 310.1	03/24/98	0930	AP
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Chloride	83	mg/L	2.33	meq/L	1	EPA 300.0	03/26/98	0800	AP
Nitrogen - Nitrate/Nitrite	0.14	mg/L			0.05	EPA 353.2	03/24/98	1430	SH
Sulfate	116	mg/L	2.42	meq/L	5	EPA 300.0	03/26/98	0800	AP
Major Cations									
Calcium	68.5	mg/L	3.42	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Magnesium	10.1	mg/L	0.83	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Potassium	21.9	mg/L	0.56	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Sodium	53.5	mg/L	2.33	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Cation / Anion Balance QC Information									
Anion Sum			6.77	meq/L	0.01	Calculation			
Cation Sum			7.14	meq/L	0.01	Calculation			
Cation/Anion Balance			2.66	%	N/A	Calculation			

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.
EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/100 August, 1983.

Reviewed By:

John Green, Water Lab Supervisor

Inter·Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8010
PURGEABLE HALOCARBON COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Pipe Yard
Project ID: Pipe Yard
Lab ID: B981209
Matrix: Water

Date Reported: 04/02/98
Date Sampled: 03/20/98
Date Received: 03/24/98
Date Extracted: NA
Date Analyzed: 03/31/98

Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1-Chlorohexane	ND	5.0	ug/L
2-Chloroethylvinyl ether	ND	5.0	ug/L
Benzyl chloride	ND	5.0	ug/L
bis(2-Chloroethoxy)methane	ND	5.0	ug/L
bis(2-Chloroisopropyl)ether	ND	5.0	ug/L
Bromobenzene	ND	5.0	ug/L
Bromodichloromethane	5.3	5.0	ug/L
Bromoform	8.4	5.0	ug/L
Bromomethane	ND	5.0	ug/L
Carbon Tetrachloride	ND	5.0	ug/L
Chloroacetaldehyde	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
Chloromethylmethyl ether	ND	5.0	ug/L
Chlorotoluene	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
Dibromomethane	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
Tetrachloroethene (PCE)	ND	5.0	ug/L

Reference: Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

Analyst _____ **Reviewed** _____

Inter·Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8010
PURGEABLE HALOCARBON COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Pipe Yard
Project ID: Pipe Yard
Lab ID: B981209
Matrix: Water

Date Reported: 04/02/98
Date Sampled: 03/20/98
Date Received: 03/24/98
Date Extracted: NA
Date Analyzed: 03/31/98

trans-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene (TCE)	ND	5.0	ug/L
Trichlorofluoromethane	ND	5.0	ug/L
Trichloropropane	ND	5.0	ug/L
Vinyl Chloride	ND	5.0	ug/L

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

Analyst _____ **Reviewed** _____

Inter-Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8010
PURGEABLE HALOCARBON COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Pipe Yard
Project ID: Pipe Yard
Lab ID: B981210
Matrix: Sludge

Date Reported: 04/02/98
Date Sampled: 03/20/98
Date Received: 03/24/98
Date Extracted: 04/01/98
Date Analyzed: 04/01/98

Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	1.5	mg/kg
1,1,1-Trichloroethane	ND	1.5	mg/kg
1,1,2,2-Tetrachloroethane	ND	1.5	mg/kg
1,1,2-Trichloroethane	ND	1.5	mg/kg
1,1-Dichloroethane	ND	1.5	mg/kg
1,1-Dichloroethene	ND	1.5	mg/kg
1,2-Dichlorobenzene	ND	1.5	mg/kg
1,2-Dichloroethane	ND	1.5	mg/kg
1,2-Dichloropropane	ND	1.5	mg/kg
1,3-Dichlorobenzene	ND	1.5	mg/kg
1,4-Dichlorobenzene	ND	1.5	mg/kg
1-Chlorohexane	ND	1.5	mg/kg
2-Chloroethylvinyl ether	ND	1.5	mg/kg
Benzyl chloride	ND	1.5	mg/kg
bis(2-Chloroethoxy)methane	ND	1.5	mg/kg
bis(2-Chloroisopropyl)ether	ND	1.5	mg/kg
Bromobenzene	ND	1.5	mg/kg
Bromodichloromethane	ND	1.5	mg/kg
Bromoform	ND	1.5	mg/kg
Bromomethane	ND	1.5	mg/kg
Carbon Tetrachloride	ND	1.5	mg/kg
Chloroacetaldehyde	ND	1.5	mg/kg
Chlorobenzene	ND	1.5	mg/kg
Chloroethane	ND	1.5	mg/kg
Chloroform	ND	1.5	mg/kg
Chloromethane	ND	1.5	mg/kg
Chloromethylmethyl ether	ND	1.5	mg/kg
Chlorotoluene	ND	1.5	mg/kg
cis-1,3-Dichloropropene	ND	1.5	mg/kg
Dibromochloromethane	ND	1.5	mg/kg
Dibromomethane	ND	1.5	mg/kg
Dichlorodifluoromethane	ND	1.5	mg/kg
Methylene chloride	ND	1.5	mg/kg
Tetrachloroethene (PCE)	ND	1.5	mg/kg

Reference: Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

Analyst _____ **Reviewed** _____

Inter·Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8010
PURGEABLE HALOCARBON COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Pipe Yard
Project ID: Pipe Yard
Lab ID: B981210
Matrix: Sludge

Date Reported: 04/02/98
Date Sampled: 03/20/98
Date Received: 03/24/98
Date Extracted: 04/01/98
Date Analyzed: 04/01/98

trans-1,2-Dichloroethene	ND	1.5	mg/kg
trans-1,3-Dichloropropene	ND	1.5	mg/kg
Trichloroethene (TCE)	ND	1.5	mg/kg
Trichlorofluoromethane	ND	1.5	mg/kg
Trichloropropane	ND	1.5	mg/kg
Vinyl Chloride	ND	1.5	mg/kg

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

Analyst _____ **Reviewed** _____

Inter·Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS

Client:	Sunco Trucking		
Project ID:	Pipe Yard	Report Date:	03/31/98
Sample ID:	Pipe Yard	Date Sampled:	03/20/98
Lab ID:	0398G01388	Date Received:	03/20/98
Sample Matrix:	Water	Date Extracted:	NA
Condition:	Cool/Intact	Date Analyzed:	03/30/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	55	1.0
Toluene	422	1.0
Chlorobenzene	ND	1.0
Ethylbenzene	163	1.0
m,p-Xylenes	665	1.0
o-Xylene	199	1.0
1,3-Dichlorobenzene	4.87	1.0
1,4-Dichlorobenzene	22	1.0
1,2-Dichlorobenzene	15.8	1.0

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	106.0%	70 -130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst

Review

Inter-Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	**Sunco Trucking**		
Project:	Pipeyard	Date Reported:	03/30/98
Sample ID:	Pipeyard	Date Sampled:	03/20/98
Laboratory ID:	0398G01388	Date Received:	03/20/98
Sample Matrix:	Water	Date Analyzed:	03/28/98

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	<0.005	0.005	5	mg/L
Barium	0.24	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	<0.01	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By: _____ Reviewed: _____

Inter-Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	**Sunco Trucking**		
Project:	Pipeyard	Date Reported:	03/30/98
Sample ID:	Pipeyard	Date Sampled:	03/20/98
Laboratory ID:	0398G01389	Date Received:	03/20/98
Sample Matrix:	Sludge	Date Analyzed:	03/28/98

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	0.005	0.005	5	mg/L
Barium	6.94	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	0.01	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By: _____ Reviewed: _____

Intei·Mountain Laboratorie:

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Spike Analysis / Blank Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	**Sunco Trucking**	Date Reported:	03/30/98
Project:	Pipeyard	Date Analyzed:	03/28/98
Sample Matrix:	Extract	Date Received:	03/20/98

Spike Analysis

Parameter	Spike Result (mg/L)	Sample Result (mg/L)	Spike Added (mg/L)	Percent Recovery
Arsenic	0.029	0.00	0.025	**104%**
Barium	2.63	1.55	1.00	**108%**
Cadmium	1.020	<0.004	1.000	**102%**
Chromium	1.08	<0.01	1.00	**108%**
Lead	0.92	<0.05	1.00	**92%**
Mercury	0.005	<0.001	0.005	**104%**
Selenium	0.023	<0.005	0.025	**92%**
Silver	N/A	N/A	N/A	**N/A**

Method Blank Analysis

Parameter	Result	Detection Limit	Units
Arsenic	**ND**	0.005	mg/L
Barium	**ND**	0.01	mg/L
Cadmium	**ND**	0.004	mg/L
Chromium	**ND**	0.01	mg/L
Lead	**ND**	0.05	mg/L
Mercury	**ND**	0.001	mg/L
Selenium	**ND**	0.005	mg/L
Silver	**ND**	0.01	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments: N/A=Data not available.

Reported by _____ Reviewed by _____

Inter-Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	**Sunco Trucking**	Date Reported:	03/30/98
Project:	Pipeyard	Date Analyzed:	03/28/98
Sample Matrix:	Extract	Date Received:	03/20/98

Known Analysis

Parameter	Found Result	Known Result	Percent Recovery	Units
Arsenic	0.011	0.010	**110%**	mg/L
Barium	0.95	1.00	**95%**	mg/L
Cadmium	1.040	1.000	**104%**	mg/L
Chromium	1.05	1.00	**105%**	mg/L
Lead	0.95	1.00	**95%**	mg/L
Mercury	0.004	0.004	**100%**	mg/L
Selenium	0.010	0.010	**100%**	mg/L
Silver	2.05	2.00	**103%**	mg/L

References:

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported by _____

Reviewed by _____

Intei·Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis
Purgeable Aromatics

Client: **Sunco Trucking**
Project: Pipe Yard

Date Reported: 03/31/98
Date Analyzed: 03/30/98

Known Analysis

Parameter	Found Result (ppb)	Known Result (ppb)	Percent Recovery	Acceptance Limits
Benzene	19.3	20.0	**97%**	70-130%
Toluene	19.6	20.0	**98%**	70-130%
Chlorobenzene	19.6	20.0	**98%**	70-130%
Ethylbenzene	19.7	20.0	**99%**	70-130%
m+p-Xylene	40.7	40.0	**102%**	70-130%
o-Xylene	20.1	20.0	**100%**	70-130%
1,3-Dichlorobenzene	20.2	20.0	**101%**	70-130%
1,4-Dichlorobenzene	20.7	20.0	**104%**	70-130%
1,2-Dichlorobenzene	20.3	20.0	**102%**	70-130%

Quality Control: Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	101.3%	70-130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst _____

Reviewed by _____

Inter·Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Method Blank Analysis

Sample Matrix: Water
Lab ID: Method Blank
Report Date: 03/31/98
Date Analyzed: 03/30/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	0.2
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	ND	0.2
o-Xylene	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	95.0%	70-130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst

Review

Intet·Mountain Laboratories

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Matrix Spike Analysis

Lab ID: 0398G01384
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 03/31/98
Date Analyzed: 03/30/98

Target Analyte	Spiked Sample Result in ppb	Sample result in ppb	Spike Added (ppb)	% Recovery	Acceptance Limits (%)
Benzene	29.70	12.10	20.0	88.0%	70-130
Toluene	31.50	15.00	20.0	82.5%	70-130
Chlorobenzene	20.60	ND	20.0	103.0%	70-130
Ethylbenzene	21.20	ND	20.0	106.0%	70-130
m,p-Xylenes	42.90	2.70	40.0	100.5%	70-130
o-Xylene	20.20	1.90	20.0	91.5%	70-130
1,3-Dichlorobenzene	16.10	ND	20.0	80.5%	70-130
1,4-Dichlorobenzene	16.00	ND	20.0	80.0%	70-130
1,2-Dichlorobenzene	16.00	ND	20.0	80.0%	70-130

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	102.3%	70 -130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst

Review

Inter-Mountain Laboratories,

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Duplicate Analysis

Lab ID: 0398G01384
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 03/31/98
Date Analyzed: 03/30/98

Target Analyte	Duplicate Concentration (ppb)	Original Concentration (ppb)	% Difference
Benzene	12.9	12.1	6.4
Toluene	16.1	15	7.1
Chlorobenzene	ND	ND	NA
Ethylbenzene	ND	ND	NA
m,p-Xylenes	2.44	2.7	10.1
o-Xylene	2.01	1.9	5.6
1,3-Dichlorobenzene	ND	ND	NA
1,4-Dichlorobenzene	ND	ND	NA
1,2-Dichlorobenzene	ND	ND	NA

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	90.8%	70 -130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC
EPA METHOD 8010
METHOD BLANK

Date Analyzed: **03/31/98**
Lab ID: MBW000090
Matrix:

Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1-Chlorohexane	ND	5.0	ug/L
2-Chloroethylvinyl ether	ND	5.0	ug/L
Benzyl chloride	ND	5.0	ug/L
bis(2-Chloroethoxy)methane	ND	5.0	ug/L
bis(2-Chloroisopropyl)ether	ND	5.0	ug/L
Bromobenzene	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
Bromomethane	ND	5.0	ug/L
Carbon Tetrachloride	ND	5.0	ug/L
Chloroacetaldehyde	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
Chloromethylmethyl ether	ND	5.0	ug/L
Chlorotoluene	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
Dibromomethane	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
Tetrachloroethene (PCE)	ND	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene (TCE)	ND	5.0	ug/L

Analyst _____ Reviewed _____

Inter-Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC
EPA METHOD 8010
METHOD BLANK

Date Analyzed: **03/31/98**
Lab ID: MBW000090
Matrix:

Parameter	Result	PQL	Units
Trichlorofluoromethane	ND	5.0	ug/L
Trichloropropane	ND	5.0	ug/L
Vinyl Chloride	ND	5.0	ug/L

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst _____

Reviewed _____

imi
Inter- Mountain Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSES / PARAMETERS
SUNCO TRUCKING	PIPEYARD	
Sampler: (Signature) Mike Talovich	**Chain of Custody Tape No.**	**Remarks**

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers
~~WATER~~ Pipe Yard	3-20-98	1500		H_2O	8
~~Sludge~~ Pipe Yard	3-20-98	1500		Sludge	4
					CR

Intact, hand delivered

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Michael Talovich	3-20-98	15:45			
Relinquished by: (Signature)	**Date**	**Time**	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received by laboratory: (Signature)**	**Date**	**Time**
			Chris Raymer	3-20-98	1545

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, Wyoming 82801
Telephone (307) 672-8945

1701 Phillips Circle
Gillette, Wyoming 82718
Telephone (307) 682-8945

2506 West Main Street
Farmington, NM 87401
Telephone (505) 326-4737

1160 Research Drive
Bozeman, Montana 59718
Telephone (406) 586-8450

11183 State Hwy. 30
College Station, TX 77845
Telephone (409) 776-8945

51986

Roger Anderson

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Coastal Chemical
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site YARD
2. Management Facility Destination SUNCO WASTE MANAGEMENT FACILITY	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) COASTAL CHEMICAL CO. #10CR 5911, FARM, NM	

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:

WASH WATER FROM EQUIPMENT DELIVERING VIRGIN CHEMICALS OR UNUSED

MAY INCLUDE the following: ALKANOLAMINE, GLYCOL (TEG AND EG) AND ANTI FREEZE MSDS ATTACHED

RECEIVED
APR - 7 1998
OIL CON. DIV.
DIST. 3

Same waste stream as hauled in October

Sent 4 MSDS 4/9/98

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: Facility mgr. DATE: 4-7-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/8/98

APPROVED BY: Martyne J. Kelly TITLE: Env Geologist DATE: 4/9/98

Roger Anderson

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WASH WATER FROM EQUIPMENT DELIVERING VIRGIN CHEMICALS OR UNUSED MAY INCLUDE THE FOLLOWING: ALKANOLAMINE, GLYCOL (TEG AND EG) AND ANTI FREEZE MSDS ATTACHED

RECEIVED
APR - 7 1998
OIL CON. DIV.
DIST. 3

Same waste stream as hauled in October 1997

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Mc... Waste Management Facility Authorized Agent TITLE: Facility mgr DATE: 4-7-98

TYPE OR PRINT NAME: MICHAEL TAKOVICH TELEPHONE NO: 505-334-6186

(This space for State Use)

APPROVED BY: Jerry Hoover TITLE: Geologist DATE: 4/8/98

APPROVED BY: Martyn J. Kelly TITLE: Env. Geologist DATE: 4/9/98

5/14/98 - Tank 4 - Tank 3

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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Verbal Approval Received: Yes ☐ No ☒	5. Originating Site YARD
2. Management Facility Destination SUNCO WASTE MANAGEMENT FACILITY	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) COSTAL CHEMICAL CO. #10 CR 5911, FARM, NM	

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:

WASH WATER FROM EQUIPMENT DELIVERING VIRGIN CHEMICALS OR UNUSED MAY INCLUDE the following: ALKANOLAMINE, GLYCOL (TEG AND EG) AND ANTI FREEZE

MSDS Attached

RECEIVED
APR - 7 1998
OIL CON. DIV.
DIST. 3

Same as hauled in October

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: Facility mgr DATE: 4-7-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/8/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Coastal Chemical Co Inc #10 CR 5911 Farmington NM 87401	Sunco Disposal System 345 RD 3500 Aztec NM 87410
3. Originating Site (name): Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** Coastal Chemical Co Inc #10 CR 5911 Farmington NM 87401
4. Source and Description of Waste Rinse water from pump, Hoses and tanks used to deliver virgin chemicals. All chemicals rinsed out are virgin/unused chemicals. Chemicals may include: Alkanolamine, Glycol (TEG & EG) , Antifreeze.	

I, Michael Reams representative for:
(Print Name)

Coastal Chemical Co., Inc 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

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 only the following documentation is attached (check appropriate items):

X MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Michael Reams

Title: Facility Manager

Date: 4-6-98

Material Safety Data Sheet

Dow Chemical U.S.A.* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 55520 Page: 1

Product Name: METHYLDIETHANOLAMINE

Effective Date: 07/12/93 Date Printed: 07/14/93 MSDS:000913

1. INGREDIENTS: (% w/w, unless otherwise noted)

Methyldiethanolamine CAS# 000105-59-9 99%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: 464-491F, 240-255C
VAP PRESS: <1 mmHg @ 20C
VAP DENSITY: 4
SOL. IN WATER: Complete
SP. GRAVITY: 1.04-1.06
APPEARANCE: Pale straw liquid.
ODOR: Amine odor.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 270F, 132C; 269F, 131C
METHOD USED: COC; Setaflash closed cup

FLAMMABLE LIMITS
LFL: Not determined
UFL: Not determined

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, foam. For large scale fires, alcohol resistant foams or protein foams may function, but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain fire run off water. For large scale fires, direct water stream may cause violent frothing, but fine water spray may help control situation.

(Continued on page 2 , over)
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Printed on Recycled and Recyclable Paper

3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

FIRE & EXPLOSION HAZARDS: Keep unnecessary people away; isolate hazard area and deny unnecessary entry. Highly toxic fumes are released in fire situation. Fire water run off may be toxic. When using water spray, boil over may occur when the product temperature reaches the boiling point of water (tank type scenarios, not spills).

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus and full protective equipment.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) No relevant data.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: Possible nitrogen oxides and carbon oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS: Wash small amounts with water. Dike to avoid contamination of sewer system with large amounts. Keep out of sewers, storm drains, surface waters and soil.

DISPOSAL METHOD: ++DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER++. For unused or uncontaminated material, the preferred management options are to send to a licensed recycler, reclaimer, or incinerator. The same management options are recommended for used or contaminated material, although additional evaluation is required. (see, for example, 40 CFR Part 261, "Identification and Listing of Hazardous Waste"). Any disposal practice must be in compliance with federal, state, provincial, and local laws and regulations. Check with appropriate agencies for your location. For additional information, see Section 4 (REACTIVITY DATA) and "REGULATORY INFORMATION".

As a service to its customers, Dow can provide lists of

(Continued on page 3)

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5. ENVIRONMENTAL AND DISPOSAL INFORMATION: (CONTINUED)

companies which recycle, reprocess or manage chemicals and companies that recondition used drums. Telephone Dow's Customer Information Center at 800/258-CHEM (2436) for further details.

6. HEALTH HAZARD DATA:

EYE: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

SKIN CONTACT: Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if confined or skin is abraded.

SKIN ABSORPTION: A single prolonged skin exposure is not likely to result in absorption of harmful amounts. The LD50 for skin absorption in rabbits is >2000 mg/kg.

INGESTION: Single dose oral toxicity is low. The oral LD50 for rats is likely between 2000-3980 mg/kg. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract.

SYSTEMIC & OTHER EFFECTS: No relevant information found.

7. FIRST AID:

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical consultation is essential.

SKIN: Wash off in flowing water or shower. Remove contaminated clothing and wash before reuse.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

(Continued on page 4 , over)
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7. FIRST AID: (CONTINUED)

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

EYE PROTECTION: Use chemical goggles. Eye wash fountain should be located in immediate work area.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion.

MSDS STATUS: Revised sections 3, 5, 9, and Regulatory Information

REGULATORY INFORMATION: (Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard

STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of

New Jersey
Pennsylvania

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

(Continued on page R-2 , over)
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REGULATORY INFORMATION (CONTINUED)

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

D2B

CANADIAN TDG INFORMATION: For guidance, the Transportation of Dangerous Goods Classification for this product is:

Not regulated

(R) Indicates a Trademark of The Dow Chemical Company
The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

* An Operating Unit of The Dow Chemical Company

2

ATERIAL SAFETY DATA SHEE
TRIETHYLENE GLYCOL

1	HMIS HEALTH
1	HMIS FLAMMABILITY
0	HMIS REACTIVITY
B	HMIS PERSONAL PROTECTION

SECTION I - IDENTIFICATION

DISTRIBUTED BY..... COASTAL CHEMICAL COMPANY, INC
P.O. BOX 820
ABBEVILLE, LA 70511-0820
(318) 893-3862

EMERGENCY PHONE NUMBER... (318) 893-3862 OR CHEMTREC (800) 424-9300

EFFECTIVE DATE..... 02/26/90

MANUFACTURER'S NAME..... UNION CARBIDE
DOW CHEMICAL
TEXACO
OXY-PETROCHEMICAL

TRADE NAME..... TRIETHYLENE GLYCOL

CHEMICAL FAMILY..... POLYETHYLENE GLYCOL

CAS NUMBER..... 112-27-6

CHEMICAL FORMULA..... C6H1404

SECTION II - HAZARDOUS INGREDIENTS

ZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
TRIETHYLENE GLYCOL	99	None Established	112-27-6

SECTION III - PHYSICAL DATA

FREEZING POINT (F)..... -7 Deg. C., 19 Deg. F.

VAPOR PRESSURE (mm Hg)... (1 mm

VAPOR DENSITY (Air=1).... 5.2, air = 1

SOLUBILITY IN H2O..... Completely soluble in all proportions

APPEARANCE/ODOR..... Clear, colorless, viscous liquid with slight odor.

SPECIFIC GRAVITY (H2O=1). 1.1 @ 77 Deg. F., 25/25 Deg.C

PH..... N/D

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... 350 Deg. F.

LOWER FLAME LIMIT..... 0.9

HIGHER FLAME LIMIT..... 9.2

EXTINGUISH MEDIA..... Use water fog or spray, Alcohol Foam, Dry Powder, Carbon Dioxide (CO2).

UNUSUAL FIRE HAZARD..... Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away. Approach fire from upwind side. Avoid breathing smoke, fumes, mist or vapors on the downwind side.

MATERIAL SAFETY DATA SHEE
TRIETHYLENE GLYCOL

SECTION V - HEALTH HAZARD DATA

RESHOLD LIMIT VALUE.... Recommended 5 MG/M3 based on oil mist.

ROUTES OF ENTRY.	INHALATION?	SKIN?	INGESTION?
	Irritant	Mild irritant	Irritant

HEALTH HAZARDS..... ACUTE: Vapors or liquid may be irritating to skin, eyes, or mucous membranes. Avoid inhalation or skin/eye contact.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATED
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medica attention. Wash clothing before reuse. If swallowed, do not induce vomiting, get immediate medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable
CONDITIONS TO AVOID..... Heat may cause internal pressure which could rupture container.
INCOMPATIBLE MATERIALS... Oxidizers or Oxidizing Materials.
DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide.
HAZARDOUS POLYMERIZATION. Will not occur
POLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL..... In case of spillage, absorb with inert material and dispose of in accordance with applicable regulation

WASTE DISPOSAL METHOD.... Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... When ventilation is not adequate, use of NIOSH approved organic vapor gas cartridge respirator is recommended.
ENTILATION..... Required in closed areas
CHANICAL EXHAUST..... Required in closed areas
LOCAL EXHAUST..... Desired
PROTECTIVE GLOVES..... Wear impervious gloves
EYE PROTECTION..... Use chemical goggles or full face shield.

OTHER PROTECTIVE
EQUIPMENT..... Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE..... Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.

PRECAUTIONARY MEASURES... Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.

HAZARD CLASS..... Not Regulated
DOT SHIPPING NAME..... Triethylene Glycol
REPORTABLE QUANTITY (RQ). None
UN NUMBER..... None
NA #..... None
PACKAGING SIZE..... N/A

SECTION X - REGULATORY

EPA ACUTE..... YES
EPA CHRONIC..... NO
EPA IGNITABILITY..... NO
EPA REACTIVITY..... NO
EPA SUDDEN RELEASE OF PRESSURE..... NO

CERCLA RQ VALUE..... None

SARA TPQ..... None
SARA 311..... None
SECTION 313..... No

EPA HAZARD WASTE #..... None
CLEAN AIR..... Yes Section 111
CLEAN WATER..... No

FOOT NOTES N/A - not applicable N/D - no data available
(- means less than) - means greater than
App. - approximate Est. - estimated

PREPARED BY:..... Glen White, B.I.S., 817-560-4631

TERIAL SAFETY DATA SHEET
TRIETHYLENE GLYCOL

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMER IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

3

MATERIAL SAFETY DATA SHEET.
TRIETHLYLENE GLYCOL REPROCESSED

1	HMIS HEALTH
1	HMIS FLAMMABILITY
0	HMIS REACTIVITY
B	HMIS PERSONAL PROTECTION

SECTION I - IDENTIFICATION

DISTRIBUTED BY.....	COASTAL CHEMICAL COMPANY, INC P.O. BOX 820 ABBEVILLE, LA 70511-0820 (318) 893-3862
EMERGENCY PHONE NUMBER...	(318) 893-3862 OR CHEMTREC (800) 424-9300
EFFECTIVE DATE.....	02/26/90
MANUFACTURER'S NAME.....	
TRADE NAME.....	TRIETHLYLENE GLYCOL REPROCESSED
CHEMICAL FAMILY.....	POLYETHYLENE GLYCOL
CAS NUMBER.....	112-27-6
CHEMICAL FORMULA.....	C6H1404

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
TRIETHYLENE GLYCOL	98	None Established	112-27-6

SECTION III - PHYSICAL DATA

FREEZING POINT (F).....	-7 Deg. C., 19 Deg. F.
VAPOR PRESSURE (mm Hg)...	<1 mm
VAPOR DENSITY (Air=1)....	5.2, air = 1
SOLUBILITY IN H2O.....	Completely soluble in all proportions
APPEARANCE/ODOR.....	Light amber color, viscous liquid with slight order.
SPECIFIC GRAVITY (H2O=1).	1.1 @ 77 Deg. F., 25/25 Deg.C
PH.....	N/D

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT.....	350 Deg. F.
LOWER FLAME LIMIT.....	0.9
HIGHER FLAME LIMIT.....	9.2
EXTINGUISH MEDIA.....	Use water fog or spray, Alcohol Foam, Dry Powder, Carbon Dioxide (CO2).
UNUSUAL FIRE HAZARD.....	Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away. Approach fire from upwind side. Avoid breathing smoke ,fumes, mist or vapors on the downwind side.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE....	Recommended 5 MG/M3 based on oil mist.

MATERIAL SAFETY DATA SHEE
TRIETHLYLENE GLYCOL REPROCESSED

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	Irritant	Mild irritant	Irritant

HEALTH HAZARDS..... ACUTE: Vapors or liquid may be irritating to skin, eyes, or mucous membranes. Avoid inhalation or skin/eye contact.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATEI
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. If swallowed, do not induce vomiting, get immediate medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable

CONDITIONS TO AVOID..... Heat may cause internal pressure which could rupture container.

INCOMPATIBLE MATERIALS... Oxidizers or Oxidizing Materials.

DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide.

HAZARDOUS POLYMERIZATION. Will not occur

POLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL..... In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

WASTE DISPOSAL METHOD.... Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... When ventilation is not adequate, use of NIOSH approved organic vapor gas cartridge respirator is recommended.

VENTILATION..... Required in closed areas

MECHANICAL EXHAUST..... Required in closed areas

LOCAL EXHAUST..... Desired

PROTECTIVE GLOVES..... Wear impervious gloves

EYE PROTECTION..... Use chemical goggles or full face shield.

OTHER PROTECTIVE EQUIPMENT..... Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

MATERIAL SAFETY DATA SHEL
TRIETHLYLENE GLYCOL REPROCESSED

HANDLING AND STORAGE.....	Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.
PRECAUTIONARY MEASURES...	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.
HAZARD CLASS.....	NON HAZARDOUS
DOT SHIPPING NAME.....	CHEMICALS, NOS
REPORTABLE QUANTITY (RQ).	None
UN NUMBER.....	None
NA #.....	None
PACKAGING SIZE.....	N/A

SECTION X - REGULATORY

EPA ACUTE.....	YES
EPA CHRONIC.....	NO
EPA IGNITABILITY.....	NO
EPA REACTIVITY.....	NO
EPA SUDDEN RELEASE OF 'RESSURE.....	NO
CERCLA RQ VALUE.....	None
SARA TPQ.....	None
SARA RQ.....	None
SECTION 313.....	No
EPA HAZARD WASTE #.....	None
CLEANAIR.....	Yes Section 111
CLEAN WATER.....	No

FOOT NOTES N/A - not applicable N/D - no data available
(- means less than) - means greater than
App. - approximate Est. - estimated

PREPARED BY:..... Glen White, S.I.S., 817-560-4631

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMER IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

Material Safety Data Sheet

The Dow Chemical Company
Midland, Michigan 48674

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-Hour Emergency Phone Number: 517-636-4400

Product: GAS/SPEC (R) CS-PLUS SOLVENT ADDITIVE

Product Code: 29451

Effective Date: 06/30/94 Date Printed: 07/25/95 MSD: 002850

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS#	AMOUNT (%w/w)
Proprietary alkylamine		90 to 100%
Water	CAS# 007732-18-5	Max. 4%

3. HAZARDS IDENTIFICATION

EYE: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

SKIN CONTACT: Short single exposure may cause skin burns. Prolonged exposure may cause severe skin burns. DOT classification: corrosive.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INGESTION: Single dose oral toxicity is low. Amounts ingested incidental to industrial handling are not likely to cause injury; however ingestion of larger amounts may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.

INHALATION: At room temperature, exposures to vapors are unlikely due to physical properties; higher temperatures may generate vapor levels sufficient to cause adverse effects.

SYSTEMIC AND OTHER EFFECTS: Repeated excessive exposures may cause liver and kidney effects. Birth defects are unlikely. Exposures having no adverse effects on the mother should have

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no effect on the fetus.

4. FIRST AID

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical consultation is essential.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Destroy contaminated shoes.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: Corrosive. May cause stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT: 160F, 71C
METHOD USED: PMCC

FLAMMABLE LIMITS
LFL: 1.6%
UFL: 19.6%

AUTOIGNITION TEMPERATURE: 350C; 662F

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, foam. For large-scale fires, alcohol resistant foams are preferred if available. General purpose synthetic foams or protein foams may function, but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain fire run-off water.

FIRE AND EXPLOSION HAZARDS: Keep unnecessary people away; isolate

(Continued on page 3)
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hazard area and deny unnecessary entry. Highly toxic fumes are released in fire situations. Fire water run-off may be toxic. See environmental section of this MSDS. When using water spray, boil-over may occur when the product temperature reaches the boiling point of water (tank-type scenarios, not spills). See also 'STORAGE AND HANDLING' section of this MSDS.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

ACTION TO TAKE FOR SPILLS: Wash with small amounts of water. Dike to avoid contamination of sewer with large amounts, soak up with absorbent material, scoop into drums.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Will produce flammable vapors above the flash point.

STORAGE:
Store in a tightly closed container, away from sunlight, in a cool, dry and well ventilated area. Keep away from strong acids and oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient for most conditions.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes. Remove contaminated clothing

(Continued on page 4 , over)
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immediately, wash skin area with soap and water, and launder clothing before reuse.

EYE PROTECTION: Use chemical goggles. Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of spashes. Eye wash fountain should be located in immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	: 306-324F, 152-162C
VAPOR PRESSURE	: <2.5 mmHg @ 20C
VAPOR DENSITY	: 2.6
SOLUBILITY IN WATER	: Complete
SPECIFIC GRAVITY	: 0.93-0.94 @ 20/20C
FREEZING POINT	: -4.5C, 24F
APPEARANCE	: Colorless liquid
ODOR	: Amine

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Stable, avoid heat, sparks, and open flames.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Acids, strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon dioxide, toxic carbon monoxide and oxides of nitrogen. Unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

ACUTE SKIN: The dermal LD50 has not been determined.

ACUTE INGESTION: The oral LD50 for rats is between 1000 and 2340 mg/kg.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

(Continued on page 5)
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No data available at MSDS effective date.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL METHOD: Dispose by incineration in accordance with all local, state, and federal requirements.

14. TRANSPORT INFORMATION

CANADIAN TDG INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard
A fire hazard

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

(Continued on page 6 , over)
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REGULATORY INFORMATION (CONTINUED)

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
Proprietary alkylamine		

HMIRA INFORMATION: A claim for exemption from ingredient disclosure has been filed under the Hazardous Materials Information Review Act (Canada). The Hazardous Materials Information Review Commission registry number, and date, assigned to this claim are:

Claim Registry Number: 3499 Filing Date: June 29, 1994

16. OTHER INFORMATION

PRODUCT USE: Gas conditioning solvent.

REVISION INDICATOR: Revised section 15

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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

The Dow Chemical Company
Midland, Michigan 48674

Material Safety Data Sheet

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-Hour Emergency Phone Number: 517-636-4400

Product: GAS/SPEC (R) CS-PLUS SOLVENT

Product Code: 13693

Effective Date: 06/30/94 Date Printed: 01/10/95 MSD: 003430

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Methyldiethanolamine	CAS# 000105-59-9	60-70%
Proprietary Alkylamine		
Water	CAS# 007732-18-5	2.0% MAX

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

****
* Causes severe eye and skin burns. Causes severe burns of the mouth *
* and throat. May be harmful if swallowed. May cause respiratory *
* tract irritation. Combustible liquid and vapor. *
****

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: Due to the pH of the material, it is assumed that exposure may cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

SKIN: Short single exposure may cause severe skin burns. Classified as corrosive according to DOT. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The dermal LD50 has not been determined.

INGESTION: Single dose oral toxicity considered to be low. The oral LD50 for rats is >1000 mg/kg. Small amounts swallowed incidental to normal handling are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion

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may cause burns of mouth and throat. Observations in animals include liver and kidney effects.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:
No relevant information found.

TERATOLOGY (BIRTH DEFECTS): Contains component(s) which did not cause birth defects or any other fetal effects in lab animals.

CANCER INFORMATION:
No relevant information found.

REPRODUCTIVE EFFECTS:
No relevant information found.

4. FIRST AID

EYES: Wash eyes immediately and continuously until assistance arrives for transport to medical facility; wash enroute, if possible. If medical assistance is not immediately available, wash for 30 minutes and seek medical attention immediately.

SKIN: Immediate continued and thorough washing in flowing water for 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

INHALATION: Remove to fresh air if effects occur. Consult physician.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. Eye irrigation may be necessary for an extneded period of time to remove as much caustic as possible. Duration of irrigation and treatment is at the discretion of medical personnel. May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

(Continued on page 3)
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FLASH POINT: 192F, 88.9C
METHOD USED: PMCC

FLAMMABLE LIMITS
LFL: Not established
UFL: Not established

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, foam. For large scale fires, alcohol resistant foams are preferred if available. General purpose synthetic foams or protein foams may function, but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain fire run off water.

FIRE AND EXPLOSION HAZARDS: Keep unnecessary people away; isolate hazard area and deny unnecessary entry. Highly toxic fumes are released in fire situations. Fire water run off may be toxic. See environmental section of this MSDS. When using water spray, boil over may occur when the product temperature reaches the boiling point of water (tank type scenarios, not spills). See also "storage and handing" section of this MSDS.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

ACTION TO TAKE FOR SPILLS: Wash with small amounts of water. Dike to avoid contamination of sewer with large amounts, soak up with absorbent material, scoop into drums. Keep out of sewers, storm drains, surface waters and soil.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Will produce flammable vapors above the flash

(Continued on page 4 , over)
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point.

STORAGE:
Store in a tightly closed container, away from sunlight, in a cool, dry and well ventilated area. Keep away from strong acids and oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINE(S): None established.

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

EYE PROTECTION: Use chemical goggles. Wear a face shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes. Eye wash fountain should be located in immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	:	183C, 361F
VAPOR PRESSURE	:	0.5 mmHg @ 25C
VAPOR DENSITY	:	3.5
SOLUBILITY IN WATER	:	Complete
SPECIFIC GRAVITY	:	1.01 @ 25/25C
FREEZING POINT	:	-23.1C
APPEARANCE	:	Pale straw liquid
ODOR	:	Amine odor

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Stable, avoid heat, sparks, and open flames.

(Continued on page 5)
(R) Indicates a Trademark of The Dow Chemical Company

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Acids, strong oxidizers, halogenated hydrocarbons.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon dioxide, toxic carbon monoxide and nitrogen oxides. Unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

MUTAGENICITY
No relevant information found.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

No data available at MSDS effective date.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL METHOD: Do not dump into any sewers, on the ground, or into any body of water. For unused or uncontaminated material, the preferred waste management options are to send to a licensed recycler, reclaimer, or incinerator. The same waste management options are recommended for used or contaminated material, although additional evaluation is required (in the U.S. see for example, 40 CFR, Part 261, "Identification and Listing of Hazardous Waste").

Any disposal practice must be in compliance with federal, state/provincial, and local laws and regulations. State/provincial and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Chemcial additions, processing, storage, or otherwise altering this material may make the waste management information presented in this MSDS incomplete or otherwise inappropriate. As a service to its customers, Dow can provide lists of companies which recycle, reprocess or manage chemicals. In the U.S. telephone Dow's Customer Information Center at 800/258-2436 for further details.

14. TRANSPORT INFORMATION

(Continued on page 6 , over)
(R) Indicates a Trademark of The Dow Chemical Company

CANADIAN TDG INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

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U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A fire hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on

(Continued on page 7)
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REGULATORY INFORMATION (CONTINUED)

certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
PROPRIETARY INGREDIENT	PROPRIETARY	PAI

PAI=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

B3 - combustible liquid with a flash point between 37.8C and 93.3C
E - corrosive to metal or skin
Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

- - - - -

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

- - - - -

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
Methyldiethanolamine	CAS# 000105-59-9	60-70%
Proprietary Alkylamine		

HMIRA INFORMATION: A claim for exemption from ingredient disclosure has been filed under the Hazardous Materials Information Review Act (Canada). The Hazardous Materials Information Review Commission registry number, and date, assigned to this claim are:

(Continued on page 8 , over)
(R) Indicates a Trademark of The Dow Chemical Company

Product: GAS/SPEC (R) CS-PLUS SOLVENT
Product Code: 13693

Effective Date: 06/30/94 Date Printed: 01/10/95 MSD: 003430

REGULATORY INFORMATION (CONTINUED)

Claim Number: 3500 Filing Date: June 29, 1994

16. OTHER INFORMATION

MSDS STATUS: Revised section 15

PRODUCT USE: Gas conditioning solvent.

(R) Indicates a Trademark of The Dow Chemical Company
The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

6

MATERIAL SAFETY DATA SHEET

ETHYLENE GLYCOL

1	HMIS HEALTH
1	HMIS FLAMMABILITY
0	HMIS REACTIVITY
B	HMIS PERSONAL PROTECTION

SECTION I - IDENTIFICATION

DISTRIBUTED BY.....	COASTAL CHEMICAL COMPANY, INC. (318) 893-3862
EMERGENCY PHONE NUMBER...	(318) 893-3862 OR CHEMTREC (800) 424-9300
EFFECTIVE DATE.....	2/06/1996
MANUFACTURER'S NAME.....	UNION CARBIDE DOW CHEMICAL TEXACO OXY-PETROCHEMICAL
TRADE NAME.....	ETHYLENE GLYCOL
CHEMICAL FAMILY.....	GLYCOL
CAS NUMBER.....	107-21-1
CHEMICAL FORMULA.....	HOCH2CH2OH

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
ETHYLENE GLYCOL	100%	ACGIH CEILING 50ppm	107-21-1

SECTION III - PHYSICAL DATA

FREEZING POINT (F).....	9 DEG F
VAPOR PRESSURE (mm Hg)...	0.12 MMHG @ 25 C
VAPOR DENSITY (Air=1)....	2.14
SOLUBILITY IN H20.....	COMPLETELY MISCIBLE
APPEARANCE/ODOR.....	COLORLESS LIQUID; PRACTICALLY ODORLESS
SPECIFIC GRAVITY (H20=1).	1.1155 @ 20/20 C
PH.....	N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT.....	247 DEG F
LOWER FLAME LIMIT.....	N/D
HIGHER FLAME LIMIT.....	N/D
EXTINGUISH MEDIA.....	Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO2).
UNUSUAL FIRE HAZARD.....	NONE KNOWN Approach fire from upwind side. Avoid breathing smoke ,fumes, mist or vapors on the downwind side.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.... 50 PPM BASED ON ETHYLENE GLYCOL

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	IRRITANT, POSSIBLY NARCOTIC	Not expected to cause significant health hazard	Ingestion of very large amounts could cause serious injury,or even death.

HEALTH HAZARDS..... ACUTE: Vapors may be irritating to eyes, or mucous membranes. Avoid inhalation or eye contact. CHRONIC: Kidney and liver damage possible. May cause reproductive disorders.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATED
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact. Symptoms of overexposure: headache, fatigue, nausea, irritation of respiratory tract, dizziness, staggering gait, confusion, unconsciousness.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable

CONDITIONS TO AVOID..... Heat may cause internal pressure which could rupture container.

INCOMPATIBLE MATERIALS... Oxidizers or Oxidizing Materials. Alkaline Materials.

DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide

ZARDOUS POLYMERIZATION. Will not occur

OLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL.....	In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.
WASTE DISPOSAL METHOD....	Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION...	When ventilation is not adequate, use of NIOSH approved organic vapor/acid gas cartridge respirator is recommended.
VENTILATION.....	Required in closed areas
MECHANICAL EXHAUST.....	Required in closed areas
LOCAL EXHAUST.....	Desired
PROTECTIVE GLOVES.....	Wear impervious gloves
EYE PROTECTION.....	Use chemical goggles or full face shield.
OTHER PROTECTIVE EQUIPMENT.....	Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE.....	Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.
PRECAUTIONARY MEASURES...	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.
HAZARD CLASS.....	Drums - NOT REGULATED Bulk - Class 9
DOT SHIPPING NAME.....	Drum - Ethylene Glycol Bulk - Other regulated substances, liquid, n.o.s. (ethylene glycol)
REPORTABLE QUANTITY (RQ).	5,000 pounds
UN NUMBER.....	None
NA #.....	Drums - None; Bulk - NA3082
PACKAGING SIZE.....	N/A

SECTION X - REGULATORY

EPA ACUTE	YES
EPA CHRONIC	YES
EPA IGNITABILITY	NO
EPA REACTIVITY	NO
EPA SUDDEN RELEASE OF PRESSURE	NO
CERCLA RQ VALUE	5,000 pounds
SARA TPQ	None
SARA RQ	None
SECTION 313	YES, ETHYLENE GLYCOL 107-21-1 100%
EPA HAZARD WASTE #	None
CLEANAIR	Yes, Section 111 and 1990 Amendments
CLEAN WATER	No

FOOT NOTES N/A - not applicable N/D - no data available
< - means less than > - means greater than
App. - approximate Est. - estimated

PREPARED BY:..... Joe Hudman, Coastal Chemical Co., Inc. 713-477-6675

IS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

MATERIAL SAFETY DATA SHEET

COASTALGUARD 100 ANTIFREEZE/COOLANT

1 HMIS HE
1 HMIS FL
0 HMIS RE
B HMIS PE

100%

ıc. 713-477-6675

ısist our customers
regulations. the
and is believed
or implied by the
ıin the exclusive
ıine the
ıovernmental

SECTION I - IDENTIFICATION

DISTRIBUTED BY.....	COASTAL CHEMICAL CO., INC. (318)893-3862
EMERGENCY PHONE NUMBER...	CHEMTREC (800)424-9300
EFFECTIVE DATE.....	2/06/1996
MANUFACTURER'S NAME.....	COASTAL CHEMICAL CO., INC.
TRADE NAME.....	COASTALGUARD 100 ANTIFREEZE/COOLANT
CHEMICAL FAMILY.....	INHIBITED ETHYLENE GLYCOL SOLUTION
CAS NUMBER.....	Blended Product
CHEMICAL FORMULA.....	Blended Product

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)
ETHYLENE GLYCOL	95 %	ACGIH CEILING 50ppm

SECTION III - PHYSICAL DATA

FREEZING POINT (F).....	APPROX. 22 DEG F
VAPOR PRESSURE (mm Hg)...	0.12 MMHG @ 25 C
VAPOR DENSITY (Air=1)....	2.14
SOLUBILITY IN H20.....	COMPLETELY MISCIBLE
APPEARANCE/ODOR.....	YELLOW/GREEN LIQUID; PRACTICALLY ODO
SPECIFIC GRAVITY (H20=1).	1.11 typical
PH.....	10.5 - 11.0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT.....	APPROX. 247 DEG F
LOWER FLAME LIMIT.....	N/D
HIGHER FLAME LIMIT.....	N/D
EXTINGUISH MEDIA.....	Water fog or spray, Foam, Dry Powder (CO2).
UNUSUAL FIRE HAZARD.....	NONE KNOWN Approach fire from upwind breathing smoke ,fumes, mist or vapo downwind side.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.... 50 PPM BASED ON ETHYLENE GLYCOL

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	IRRITANT, POSSIBLY NARCOTIC	Not expected to cause significant health hazard	Ingestion of very large amounts could cause serious injury,or even death.

HEALTH HAZARDS..... ACUTE: Vapors may be irritating to eyes, or mucous membranes. Avoid inhalation or eye contact. CHRONIC: Kidney and liver damage possible. May cause reproductive disorders.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATED
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact. Symptoms of overexposure: headache, fatigue, nausea, irritation of respiratory tract, dizziness, staggering gait, confusion, unconsciousness.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable
CONDITIONS TO AVOID..... Heat may cause internal pressure which could rupture container.
INCOMPATIBLE MATERIALS... OXIDIZING MATERIALS & OXIDIZERS
DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide
HAZARDOUS POLYMERIZATION. Will not occur
POLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL..... In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

WASTE DISPOSAL METHOD.... Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... When ventilation is not adequate, use of NIOSH approved organic vapor/acid gas cartridge respirator is recommended.
VENTILATION..... Required in closed areas
MECHANICAL EXHAUST..... Required in closed areas
LOCAL EXHAUST..... Desired
PROTECTIVE GLOVES..... Wear impervious gloves
EYE PROTECTION..... Use chemical goggles or full face shield.
OTHER PROTECTIVE EQUIPMENT..... Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE..... Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.
PRECAUTIONARY MEASURES... Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.
HAZARD CLASS..... Drums - Not Regulated
Bulk - Class 9
DOT SHIPPING NAME..... Drums - COASTALGUARD 100
Bulk - Other regulated substances, liquid, n.o.s. (ethylene glycol)
REPORTABLE QUANTITY (RQ). 5000 pounds
UN NUMBER..... None
NA #..... Drums - None; Bulk - NA3082
PACKAGING SIZE..... N/A

SECTION X - REGULATORY

EPA ACUTE..... YES
EPA CHRONIC..... YES
EPA IGNITABILITY..... NO
EPA REACTIVITY..... NO

COASTALGUARD 100 ANTIFREEZE/COOLANT

EPA SUDDEN RELEASE OF PRESSURE..... NO

CERCLA RQ VALUE..... 5000 pound for ethylene glycol

SARA TPQ..... None
SARA RQ..... None
SECTION 313..... YES, ETHYLENE GLYCOL 107-21-1 95% (1/1/87)

EPA HAZARD WASTE #..... None
CLEANAIR..... Yes, Section 111 Volatile Organic Compounds & Section 112 Statutory Air Pollutants (1990 Amendments)
CLEAN WATER..... No

FOOT NOTES N/A - not applicable N/D - no data available
< - means less than > - means greater than
App. - approximate Est. - estimated

PREPARED BY:..... David Trahan, C.F.T. - 318-898-0001

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

Material Safety Data Sheet

The Dow Chemical Company
Midland, Michigan 48674

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-Hour Emergency Phone Number: 517-636-4400

Product: DIETHANOLAMINE LOW FREEZING GRADE

Product Code: 21106

Effective Date: 03/01/96 Date Printed: 04/27/96 MSD: 000904

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Diethanolamine	CAS# 000111-42-2	85%
Water	CAS# 007732-18-5	15%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless liquid. Slight ammonia odor. Causes eye burns.

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause severe irritation with corneal injury.

SKIN: Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is abraded (scratched or cut). A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Not classified as corrosive according to DOT.

INGESTION: Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Observations in animals include liver and kidney effects following single oral doses. Ingestion may cause gastrointestinal irritation or ulceration.

(Continued on page 2 , over)

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INHALATION: At room temperature, exposures to vapors are minimal due to physical properties; higher temperatures may generate vapor levels sufficient to cause irritation and other effects.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Results from repeated exposure tests on diethanolamine in laboratory animals include anemia (rats) and effects on kidney (rats and mice) and liver (mice). Heart and nervous system effects were also observed in these animals given exaggerated doses. Changes in other organs, causes of which are nonspecific, were judged secondary to the poor health of the animals due to the extremely high doses of diethanolamine given.

TERATOLOGY (BIRTH DEFECTS): Contains component(s) which did not cause birth defects; other fetal effects occurred only at doses toxic to the mother.

4. FIRST AID

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagscopic control. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASH POINT: * None
METHOD USED: Setaflash
AUTOIGNITION TEMPERATURE:

* No flash point observed up to the boiling point. Flash point of

(Continued on page 3)
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diethanolamine is 325F, 163C by Setaflash.

FLAMMABILITY LIMITS
LFL: Not determined.
UFL: Not determined.

HAZARDOUS COMBUSTION PRODUCTS:

EXTINGUISHING MEDIA: Water fog, alcohol foam, CO2, dry chemical.

FIRE FIGHTING INSTRUCTIONS: Not available.

PROTECIVE EQUIPMENT FOR FIRE FIGHTERS: Wear self-contained, possitive-pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Clear non-emergency personnel from the area.

PROTECT THE ENVIRONMENT: Do not allow into sewers, on the ground, or into any body of water.

CLEANUP: Use a noncombustible absorbent such as sand and shovel into suitable containers. Do not use sawdust, wood chips or other cullulosic materials to absorb the spill.

7. HANDLING AND STORAGE

HANDLING: Prevent eye and skin contact. Avoid breathing vapors. Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the auto-ignition temperature possibly resulting in spontaneous combustion.

STORAGE: Do not store in common area with halogenated materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTIVE EQUIPMENT

(Continued on page 4 over)
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EYE/FACE PROTECTION: Use chemical goggles.

SKIN PROTECTION: When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation. If hands are cut or scratched, use gloves impervious to this material even for brief exposures.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

EXPOSURE GUIDELINE(S): Diethanolamine: ACGIH TLV is 2 mg/m3, skin; OSHA PEL is 3 ppm. PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless liquid.
ODOR: Slight ammoniacal odor.
VAPOR PRESSURE: Low.
VAPOR DENSITY: Not determined.
BOILING POINT: 244F, 118C
SOLUBILITY IN WATER: Completely miscible.
SPECIFIC GRAVITY: 1.08 @ 25/4C
FREEZING POINT: 28F, -2C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal storage conditions.

CONDITIONS TO AVOID: This product should not be heated above 60C in the presence of aluminum due to excessive corrosion and potential chemical reaction releasing flammable hydrogen gas.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizers, strong acids. Product may potentially react with various halogenated organic solvents, resulting in temperature and/or pressure increases.

HAZARDOUS DECOMPOSITION PRODUCTS: Possible nitrogen oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

(Continued on page 5)
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SKIN: The LD50 for skin absorption in rabbits is greater than 8,200 mg/kg (for diethanolamine).

INGESTION: The oral LD50 for rats is greater than 680 mg/kg (for diethanolamine).

MUTAGENICITY: In vitro mutagenicity studies were negative. (for diethanolamine).

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: Based largely or completely on data for major component(s). Bioconcentration potential is low (BCF less than 100 or Log Kow less than 3). Log octanol/water patition coefficient (log Kow) is -1.43. Henry's Law Constant (H) is 5.35E-14 atm m3/mol.

DEGRADATION & TRANSFORMATION: Based largely or completely on data for major component(s). Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD greater than 40%). 5-Day biochemical oxygen demand (BOD5) is 0.22 p/p. 10-Day biochemical oxygen demand (BOD10) is 0.74 p/p. 20-Day biochemical oxygen demand (BOD20) is 1.20 p/p. Theoretical oxygen demand (ThOD) is calculated to be 2.13 p/p. Inhibitory concentration (IC50) in OECD "Activated Sludge, Respiration Inhibition Test" (Guideline #209) is > 1000 mg/L. Material is ultimately biodegradable. Reaches more than 70% mineralization in OECD test for inherent biodegradability: Zahn-Wellens; 94% DOC removal in 14 days.

ECOTOXICOLOGY: Based largely or completely on data for major component(s). Material is slightly toxic to aquatic organisms on an acute basis (LC50 between 10 and 100 mg/L in most sensitive species). Acute LC50 for fathead minnow (Pimephales promelas) is 1460-1664 mg/L. Acute LC50 for bluegill (Lepomis macrochirus) is 1850-2100 mg/L. Acute LC50 for water flea (Daphnia magna) is 55-306 mg/L. Acute LC50 for the cladoceran Ceriodaphnia dubia is 30-160 mg/L. Acute LC50 for goldfish (Carassius auratus) is 800 to > 5000 mg/L at pH 9.7 and pH 7.0, respectively. Acute LC50 for mosquito fish (Gambusia affinis) is 1400-1800 mg/L.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

(Continued on page 6 , over)
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DISPOSAL: Any disposal practice must be in compliance with all federal, state/provincial, and local laws and regulations. State/provincial and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Regulations may also vary in different locations. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. None of these waste management options should be considered 'arranging for disposal'.

Do not allow into any sewers, on the ground, or into any body of water.

The preferred waste management option is to send to a properly properly licensed or permitted incinerator.

As a service to its customers, Dow can provide lists of companies which recycle, reprocess, or manage chemicals. In the U.S., telephone Dow's Customer Information Center at 517-832-1556 or 800-258-2436 (U.S.) for further details.

14. TRANSPORT INFORMATION

CANADIAN TDG INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

DEPARTMENT OF TRANSPORTATION (D.O.T.):

For DOT regulatory information, if required, consult transportation regulations, product shipping papers or contact your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply

(Continued on page 7)
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with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: This product contains the following substances 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:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
DIETHANOLAMINE	000111-42-2	86 %

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
DIETHANOLAMINE	000111-42-2	NJ3 PA1 PA3

NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).
PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).
PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

(Continued on page 8 , over)
(R) Indicates a Trademark of The Dow Chemical Company

Product: DIETHANOLAMINE LOW FREEZING GRADE
Product Code: 21196

Effective Date: 03/01/96 Date Printed: 04/27/96 MSD: 000904

REGULATORY INFORMATION (CONTINUED)

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:
Category:

Chemical Name	CAS#	RQ	% in Product
Diethanolamine	000111-42-2	100 lb	85%

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

D2B - eye or skin irritant
Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

- - - - -

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

- - - - -

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
Diethanolamine	CAS# 000111-42-2	85%

16. OTHER INFORMATION

REVISION INDICATOR: Revised section 14.

(R) Indicates a Trademark of The Dow Chemical Company
The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

Roger Anderson

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Hawkins-Smith Company
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Old Everett MAED
2. Management Facility Destination SUNCO WASTE MANAGEMENT FAC.	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) Old Everett MAED	

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:

Former Fresh water storage tanks Fluid

Hard to read Faxed Copies of Analysis & C of C. MJK

Wait For originals.

originals Attached 3-24-98 MJK

RECEIVED
MAR 12 1998
OIL CON. DIV.
DIST. 3

Sent to Aztec 3/24/98

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: Agent DATE: 3-12-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/12/98

APPROVED BY: Martyne Kelly TITLE: Env Geologist DATE: 3/24/98

District I - (505) 393-6161
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Hawkins-Smith Company
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Old Everett UAED
2. Management Facility Destination SUNCO WASTE MANAGEMENT FAC.	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 Aztec, NM	8. State NM
7. Location of Material (Street Address or ULSTR) Old Everett UAED	

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(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:

Former Fresh water storage tanks Fluid

RECEIVED
MAR 12 1998
OIL CON. DIV.
DIST. 3

Verbal from March Ashley 3/18/98

Estimated Volume 80bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: Disposal Mgr DATE: 3-12-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/12/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator (Name): Address:	3. Location (Street Address &/or ULSTR):
Hawkins-Smith Co. 8645 West Franklin Road Boise, Idaho 83709	4901 E. Main Farmington, NM 87402
2. Originating Site (Name):	4. Destination Name:
4 Corners Marketplace formerly- U.S. Enertech	Sunco Disposal

5. Source and Description of Waste

Water in 2 former flow-through process tanks

I, Cynthia Sluyter-Gray representative for: Hawkins-Smith Company 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

__XX__ NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by production identification

For Non-exempt waste only the following documentation is attached (check appropriate items):

____ MSDS Information
__XX__ RCRA TCLP Analysis
__XX__ Chain of Custody
____ Other (Description)

Name (Signature): [signature]

Printed Name: Cynthia Sluyter-Gray

Title: Project Manager

Date: March 11, 1998

Attach list of originating sites as appropriate.

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

March 17, 1998

Cindy Gray
On Site Technologies Limited Partnership
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87499
TEL: (505) 325-5667
FAX (505) 327-1496

RE: US Enertek Order No.: 9802028

Dear Cindy Gray,

On Site Technologies, LTD. received 1 sample on 2/24/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

AQPREP Total Metals: ICP (SW3010A)
Aromatic Volatiles by GC-PID (SW8021A)
Cyanide, Reactive (SW7.3.3.2)
Halogenated Volatile Organics (SW8010A)
ICP Metals-RCRA, Total (SW6010A)
pH (E150.1)
Sulfide, Reactive (SW7.3.4.2)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Cox

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

Date: *17-Mar-98*

CLIENT: On Site Technologies Limited Partnership
Project: US Enertek
Lab Order: 9802028

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

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

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.
Analytical Comments for METHOD BTEX_W, SAMPLE 9802028-01A: Low recoveries observed for surrogates, fluorobenzene and 1,4-difluorobenzene, are matrix dependent and confirmed by duplicate analyses.

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *17-Mar-98*

Client:	On Site Technologies Limited Partnership	**Client Sample Info:**	Old US Enertek
Work Order:	9802028	**Client Sample ID:**	Tank A+B
Lab ID:	9802028-01A **Matrix:** AQUEOUS	**Collection Date:**	2/24/98 9:55:00 AM
Project:	US Enertek	**COC#:**	6878

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC-PID		**SW8021A**				Analyst: **DC**
Methyl tert-Butyl Ether	ND	1		µg/L	1	2/26/98
Benzene	ND	0.5		µg/L	1	2/26/98
Toluene	ND	0.5		µg/L	1	2/26/98
Ethylbenzene	ND	0.5		µg/L	1	2/26/98
m,p-Xylene	2.4	1		µg/L	1	2/26/98
o-Xylene	1.8	0.5		µg/L	1	2/26/98
Surr: Fluorobenzene	48.7	70-130	S	%REC	1	2/26/98
Surr: 1,4-Difluorobenzene	63.8	70-130	S	%REC	1	2/26/98
Surr: 4-Bromochlorobenzene	81.2	70-130		%REC	1	2/26/98

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: *17-Mar-98*

CLIENT: On Site Technologies Limited Partnership
Work Order: 9802028
Project: US Enertek

QC SUMMARY REPORT
Method Blank

Sample ID: **MB1** Batch ID: **GC-1_980226** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/26/98** Prep Date:

Client ID: **9802028** Run ID: **GC-1_980226A** SeqNo: **543**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.1527	0.5									J
Ethylbenzene	.0551	0.5									J
m,p-Xylene	.1249	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.1071	0.5									J
Toluene	.1015	0.5									J

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

On Site Technologies, LTD.

Date: *17-Mar-98*

CLIENT: On Site Technologies Limited Partnership
Work Order: 9802028
Project: US Enertek

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: **9802020-02AMS** Batch ID: **GC-1_980226** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/26/98** Prep Date:

Client ID: **9802028** Run ID: **GC-1_980226A** SeqNo: **544**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	400.7	5	400	4.221	99.1%	57	128				
Ethylbenzene	448.1	5	400	17.86	107.6%	78	107				
m,p-Xylene	1149	10	800	323.4	103.1%	67	118				
Methyl tert-Butyl Ether	387.1	10	400	4.564	95.6%	70	130				
o-Xylene	543.1	5	400	127.8	103.8%	78	107				
Toluene	418.4	5	400	6.183	103.1%	74	116				

Sample ID: **9802020-02AMSD** Batch ID: **GC-1_980226** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/26/98** Prep Date:

Client ID: **9802028** Run ID: **GC-1_980226A** SeqNo: **545**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	387.2	5	400	4	95.8%	57	128	400.7	3.4%	12	
Ethylbenzene	431.9	5	400	18	103.5%	78	107	448.1	3.7%	11	
m,p-Xylene	1105	10	800	320	98.1%	67	118	1149	3.9%	10	
Methyl tert-Butyl Ether	385.5	10	400	4	95.4%	70	130	387.1	0.4%	20	
o-Xylene	520.5	5	400	130	97.6%	78	107	543.1	4.2%	14	
Toluene	404.1	5	400	6.2	99.5%	74	116	418.4	3.5%	14	

S ✓ LCS
3/17/98

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

On Site Technologies, LTD.

Date: *17-Mar-98*

CLIENT: On Site Technologies Limited Partnership
Work Order: 9802028
Project: US Enertek

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS WATER** Batch ID: **GC-1_980226** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/26/98** Prep Date:

Client ID: **9802028** Run ID: **GC-1_980226A** SeqNo: **542**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.83	0.5	40	0.1527	99.2%	84	114				
Ethylbenzene	43.26	0.5	40	0.0551	108.0%	86	118				
m,p-Xylene	82.61	1	80	0.1249	103.1%	50	150				
Methyl tert-Butyl Ether	38.14	1	40	0	95.4%	75	133				
o-Xylene	42.52	0.5	40	0.1071	106.0%	49	147				
Toluene	41.41	0.5	40	0.1015	103.3%	87	120				

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

On Site Technologies, LTD.

Date: *17-Mar-98*

CLIENT: On Site Technologies Limited Partnership
Work Order: 9802028
Project: US Enertek

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1 QC0529/30** Batch ID: **GC-1_980226** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/26/98** Prep Date:

Client ID: **9802028** Run ID: **GC-1_980226A** SeqNo: **538**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.68	0.5	20	0	103.4%	85	115				
Ethylbenzene	22.35	0.5	20	0	111.8%	85	115				
m,p-Xylene	42.25	1	40	0	105.6%	85	115				
Methyl tert-Butyl Ether	19.43	1	20	0	97.2%	85	115				
o-Xylene	21.7	0.5	20	0	108.5%	85	115				
Toluene	21.35	0.5	20	0	106.8%	85	115				
1,4-Difluorobenzene	99.8	0	100	0	99.8%	70	130				
4-Bromochlorobenzene	91.98	0	100	0	92.0%	70	130				
Fluorobenzene	98.2	0	100	0	98.2%	70	130				

Sample ID: **CCV2 QC0529/30** Batch ID: **GC-1_980226** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/26/98** Prep Date:

Client ID: **9802028** Run ID: **GC-1_980226A** SeqNo: **539**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.52	0.5	20	0	102.6%	85	115				
Ethylbenzene	21.98	0.5	20	0	109.9%	85	115				
m,p-Xylene	41.32	1	40	0	103.3%	85	115				
Methyl tert-Butyl Ether	20.32	1	20	0	101.6%	85	115				
o-Xylene	21.55	0.5	20	0	107.7%	85	115				
Toluene	21.02	0.5	20	0	105.1%	85	115				
1,4-Difluorobenzene	100.4	0	100	0	100.4%	70	130				
4-Bromochlorobenzene	95.24	0	100	0	95.2%	70	130				
Fluorobenzene	98.3	0	100	0	98.3%	70	130				

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

CLIENT: On Site Technologies Limited Partnership
Work Order: 9802028
Project: US Enertek

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV3 QC0529/30** Batch ID: **GC-1_980226** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/26/98** Prep Date:
Client ID: **9802028** Run ID: **GC-1_980226A** SeqNo: **540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.49	0.5	20	0	102.5%	85	115				
Ethylbenzene	21.87	0.5	20	0	109.4%	85	115				
m,p-Xylene	41.1	1	40	0	102.7%	85	115				
Methyl tert-Butyl Ether	19.48	1	20	0	97.4%	85	115				
o-Xylene	21.36	0.5	20	0	106.8%	85	115				
Toluene	20.98	0.5	20	0	104.9%	85	115				
1,4-Difluorobenzene	99.39	0	100	0	99.4%	70	130				
4-Bromochlorobenzene	89.86	0	100	0	89.9%	70	130				
Fluorobenzene	97.94	0	100	0	97.9%	70	130				

Sample ID: **CCV4 QC0529/30** Batch ID: **GC-1_980226** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/26/98** Prep Date:
Client ID: **9802028** Run ID: **GC-1_980226A** SeqNo: **541**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.81	0.5	20	0	99.0%	85	115				
Ethylbenzene	21.33	0.5	20	0	106.6%	85	115				
m,p-Xylene	40.01	1	40	0	100.0%	85	115				
Methyl tert-Butyl Ether	20.28	1	20	0	101.4%	85	115				
o-Xylene	20.84	0.5	20	0	104.2%	85	115				
Toluene	20.32	0.5	20	0	101.6%	85	115				
1,4-Difluorobenzene	99.94	0	100	0	99.9%	70	130				
4-Bromochlorobenzene	90.7	0	100	0	90.7%	70	130				
Fluorobenzene	98.25	0	100	0	98.3%	70	130				

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

Mountain States Analytical, Inc.
The Quality Solution

RECEIVED MAR 17 1998

March 11, 1998

Mr. David Cox
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Reference:
Project: US Enertek
MSAI Group: 21286

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following sample is included in the report.

9802028-01A Tank A+B

All holding times were met for the tests performed on these samples except:

Sample - (Sample Date) Test Description	Expiration Date	Date Analyzed	Days Past Holding Time
9802028-01A Tank A+B - (02/24/98)			
pH, w/ww, 150.1	02/25/98	02/27/98	2

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

Rolf E. Larsen
Project Manager

Analytical Report

Mountain States Analytical, Inc.
The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: US Enertek

MSAI Sample: 75843
MSAI Group: 21286
Date Reported: 03/11/98
Discard Date: 04/10/98
Date Submitted: 02/26/98
Date Sampled: 02/24/98
Collected by: DA
Purchase Order: 9802028
Project No.:

Sample ID: 9802028-01A Tank A+B
Matrix: Waste Water

Test	Analysis	Results as Received	Units	Limit of Quantitation
0259B	Mercury by CVAA, w/ww, 7470 Method: SW-846 7470	ND	mg/l	0.0050
0392I	Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	Batch. w113		
0392M	Mercury Prep CVAA, w/ww, 7470 Method: SW-846 7470	Batch. w020		(1)
7245	Arsenic by ICP, w/ww, 6010A Method: SW-846 6010A	0.24	mg/l	0.18
7246	Barium by ICP, w/ww, 6010A Method: SW-846 6010A	1.78	mg/l	0.02
7249	Cadmium by ICP, w/ww, 6010A Method: SW-846 6010A	0.141	mg/l	0.020
7251	Chromium by ICP, w/ww, 6010A Method: SW-846 6010A	0.237	mg/l	0.050
7255	Lead by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.25
7264	Selenium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.30
7266	Silver by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.020
0200	pH, w/ww, 150.1 Method: EPA 150.1	4.41	Std. Units	0.05

Mountain States Analytical, Inc.
The Quality Solution

On Site Technologies, Ltd.

MSAI Sample: 75843
MSAI Group: 21286

Sample ID: 9802028-01A Tank A+B

Test	Analysis	Results as Received	Units		Limit of Quantitation
6754	Reactivity, (Cyanide & Sulfide)ww Method: SW-846 CHAPTER 7.3				
	Cyanide	ND	mg/kg		50
	Sulfide	ND	mg/kg		410
1462	Purgeable Halocarbons, 8010A, ww Method: SW-846 8010A				
	Bromoform	ND	ug/l	(2)	20
	Bromomethane	ND	ug/l		20
	Carbon tetrachloride	ND	ug/l		20
	Chlorobenzene	ND	ug/l		20
	Chloroethane	ND	ug/l		20
	Trichlorofluoromethane	ND	ug/l		20
	Chloroform	ND	ug/l		20
	Chloromethane	ND	ug/l		20
	Dibromochloromethane	ND	ug/l		20
	Bromodichloromethane	ND	ug/l		20
	1,1-Dichloroethane	ND	ug/l		20
	1,2-Dichloroethane	ND	ug/l		20
	1,1-Dichloroethene	ND	ug/l		20
	trans-1,2-Dichloroethene	ND	ug/l		20
	1,2-Dichloropropane	ND	ug/l		20
	cis-1,3-Dichloropropene	ND	ug/l		20
	trans-1,3-Dichloropropene	ND	ug/l		20
	Methylene chloride (Dichloromethane	ND	ug/l		20
	1,1,2,2-Tetrachloroethane	ND	ug/l		20
	Tetrachloroethene	ND	ug/l		20
	1,1,1-Trichloroethane	ND	ug/l		20
	1,1,2-Trichloroethane	ND	ug/l		20
	Trichloroethene	ND	ug/l		20
	Vinyl chloride	ND	ug/l		20
	1,2-Dichlorobenzene	ND	ug/l		20
	1,3-Dichlorobenzene	ND	ug/l		20
	1,4-Dichlorobenzene	ND	ug/l		20
	2-Chloroethyl Vinyl Ether	ND	ug/l		20
	1,2-Dibromoethane (EDB)	ND	ug/l		20

(1) 10x dilution. Matrix required excessive potassium permanganate.
(2) Sample was diluted 10x due to foaming.

Corporate Office
1645 West 2200 South, Salt Lake City, Utah 84119
801-973-0050 • 1-800-973-6724(MSAI) • FAX 801-972-6278
e-mail: service@msailabs.com

Southwest States Region
6223 Bayonne, Spring, Texas 77389
281-320-2842 • FAX 281-320-0989
e-mail: gbrewer@msailabs.com

MEMBER ACIL

Mountain States Analytical, Inc.

The Quality Solution

On Site Technologies, Ltd.

MSAI Sample: 75843
MSAI Group: 21286

Sample ID: 9802028-01A Tank A+B

ND - Not detected at the limit of quantitation

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

10 Years of Quality Service

Corporate Office
1645 West 2200 South, Salt Lake City, Utah 84119
801-973-0050 • 1-800-973-6724(MSAI) • FAX 801-972-6278
e-mail: service@msailabs.com

Southwest States Region
6223 Bayonne, Spring, Texas 77389
281-320-2842 • FAX 281-320-0989
e-mail: gbrewer@msailabs.com

MEMBER ACIL

6878

CHAIN OF CUSTODY RECORD

Date: FEB 24, 1998

Page 1 of 1

ON SITE TECHNOLOGIES, LTD.
657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.: | Job No. 1450

SEND INVOICE TO: Name | Company | Dept. | Address | City, State, Zip

REPORT RESULTS TO: Name C/O LINDY GRAY | Title | Company ONSITE TECH | Mailing Address | City, State, Zip | Telephone No. | Telefax No.

Sampling Location: OLD. US ENTREK Enertek

Sampler: DUANE ASPAAS

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	RCRA METALS	SOLVENTS EPA	BTEX EPA	TPH						LAB ID
TANK A	2/24/98	9:55	WTR	HCl	3	✓	✓	✓	✓						9802028-01
TANK B	2/24/98	10:15	WTR	HCl	3	✓	✓	✓	✓						

ANALYSIS REQUESTED

Relinquished by:	Date/Time 2/24/98 17:10 PM	Received by:	Date/Time 2/24/98 1210
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Rush | 24-48 Hours | 10 Working Days | Special Instructions:

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

-10A
9-B3

CHAIN OF CUSTODY RECORD

6879

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 2/24/98

Page 1 of 1

Purchase Order No.: 9802028	Job No.		
SEND INVOICE TO: Name ACCOUNTS PAY		REPORT RESULTS TO: Name DAVID COX	Title
Company ON SITE	Dept.	Company ON SITE TECH	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No. 505 325-2432	Telefax No.

Sampling Location: US ENERTEK

Sampler: DA

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	ANALYSIS REQUESTED: BOD	CORROSIVITY PH	REACTIVE CYANIDE	REACTIVE SULFIDE	RCRA METALS	LAB ID
TANK A + TANK B	2/24/98	0955	WW	HCl	2	✓					9802028-01A
↓ ↓	2/24/98	0955	WW	NONE	1		✓	✓	✓	✓	↓
	2/24/98	0955	WW	HNO_3	1					✓	HNO_3 pH≤2

9802028-01

Relinquished by: DA	Date/Time 2/24/98 1600	Received by: W. Sawyer	Date/Time 02/24/98 900
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: DA (Client Signature Must Accompany Request) Date 2/20/98

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ] Verbal Approval Received: Yes [ ] No [X]	4. Generator WFS 5. Originating Site ELCEDRO COMPLEX
2. Management Facility Destination SUNCO WASTE MANAGEMENT FAC.	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) ELCEDRO COMPLEX	

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:

AMINE TREATING FLUID. 95% RAIN WATER
2.5% AMINE
2.5% TREATING TEG

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OIL CON. DIV.
DIST. 3

Estimated Volume 160 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 3-30-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TAKOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: _____ TITLE: GEOLOGIST DATE: 3/30/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Williams Field Service **El Cedro Complex** **Hwy 64 Mile Marker 100.5** **Blanco, N.M. 87412**	Sun Co Disposal
3. Originating Site (name): El-Cedro Complex Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Amine Treating - 95% Rain Water 2.5% Amine 2.5% Treating TEG	

I, Bill Hargis (Bill Hargis) representative for:
(Print Name)

Williams Field Service 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)

X **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 only the following documentation is attached (check appropriate items):

__ MSDS Information
__ RCRA Hazardous Waste Analysis
__ Chain of Custody
__ Other (description):

Name (Original Signature): Bill Hargis

Title: LEAD Operator

Date: 3/23/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Environmental Bureau
Oil Conservation Division

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Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site BJ YARD
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) BJ Services 3250 Southside River Road, Farmington NM	

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:

Liquid From ACID WASTE TANK

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DIST. 3

Sent to Aztec 3-11-98

Estimated Volume 100 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael P. Talovich TITLE: Manager DATE: 3-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/9/98

APPROVED BY: Martyn J. Thirty TITLE: Env Geologist DATE: 3/11/98

District I : (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator BJ Services 5. Originating Site BJ YARD
2. Management Facility Destination Sunco Disposal	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 Aztec NM	8. State NM
7. Location of Material (Street Address or ULSTR) BJ Services 3250 Southside River Road, Farmington NM	

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:

Liquid from acid waste tank

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OIL CON. DIV.
DIST. 3

Estimated Volume 100 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] TITLE: manager DATE: 3-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: [signature] TITLE: Geologist DATE: 3/9/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

ORIGINATION LOCATION: BJ Services Co., 3250 Southside River Rd., Farmington, NM

SOURCE: liquid from acid waste tank

DISPOSAL LOCATION: Sun Co Disposal Systems, Farmington, NM

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

I, the undersigned as the agent for the B. J. Services concur with the status of the waste from the subject site.

Name: Les Baugh

Title: Facilities Supervisor

Address: 3250 Southside River Road Farmington N. M. 87401

Signature: Les Baugh

Date: 3/6/98

CERTIFICATE OF WASTE STATUS

1. Generator (Name): BJ Services Co., USA Address: 8701 New Trails Drive The Woodlands, Tx 77381	3. Location (Street Address &/or ULSTR): 3250 Southside River Road Farmington, NM
2. Originating Site (Name): BJ Services Co., USA	4. Destination Name: SunCo Disposal Systems

5. Source and Description of Waste
liquid from acid waste tank

I, Les Baugh representative for:
BJ Services Co. USA 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-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by production identification

For Non-exempt waste only the following documentation is attached (check appropriate items):

___ MSDS Information
✓ RCRA TCLP Analysis
✓ Chain of Custody
___ Other (Description)

Name (Signature): Les Baugh

Printed Name: Les Baugh

Title: Facilities Supervisor

Date: 3/10/98

Attach list of originating sites as appropriate.

Certificate of Analysis

Quanterra Incorporated
5307 Industrial Oaks Boulevard, Suite 160
Austin, Texas 78735

512 892-6684 Direct
512 892-6652 Fax

Quanterra

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DIST. 3

ANALYTICAL REPORT

PROJECT NO. RCRA

Farmington, NM

Lot #: I8B150103

Rick Johnson

B.J. Services Company

QUANTERRA INCORPORATED

Sandra L. Green
Project Manager

March 4, 1998

Quanterra
Environmental Services

EXECUTIVE SUMMARY - Detection Highlights

I8B150103

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
FWT-BACKFILL 02/12/98 10:15 001				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	14000	1100	mg/kg	MCAWW 418.1
Corrosivity	7.6	1.0	No Units	SW846 9045A
Percent Moisture	8.4	0.50	%	OCLP OLM03.1
AWT-BACKFILL 02/12/98 10:30 002				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	110	11	mg/kg	MCAWW 418.1
Corrosivity	7.9	1.0	No Units	SW846 9045A
Percent Moisture	8.8	0.50	%	OCLP OLM03.1
AWT-SOLIDS/SLUDGE 02/12/98 11:00 003				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	49000	2900	mg/kg	MCAWW 418.1
Corrosivity	9.5	1.0	No Units	SW846 9045A
Percent Moisture	30.1	0.50	%	OCLP OLM03.1
FWT-SLUDGE 02/12/98 13:00 004				
Benzene	0.18	0.050	mg/L	SW846 8260A
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	550000	10000	mg/kg	MCAWW 418.1
Corrosivity	5.1	1.0	No Units	SW846 9045A
Percent Moisture	52.2	0.50	%	OCLP OLM03.1

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Environmental Services

ANALYTICAL METHODS SUMMARY

I8B150103

PARAMETER	ANALYTICAL METHOD
% Moisture, Decanted-CLP	OCLP OLM03.1
Corrosivity	SW846 9045A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Pensky-Martens Method for Determining Ignitability	SW846 1010
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Total Recoverable Petroleum Hydrocarbons	MCAWW 418.1
TCLP BNA's	SW846 8270B
TCLP Metals (ICP)	SW846 6010A
TCLP Volatiles	SW846 8260A

References:

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

OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

Quanterra
Environmental Services

SAMPLE SUMMARY

I8B150103

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CFDA2	001	FWT-BACKFILL	02/12/98	10:15
CFDA3	002	AWT-BACKFILL	02/12/98	10:30
CFDA4	003	AWT-SOLIDS/SLUDGE	02/12/98	11:00
CFDA5	004	FWT-SLUDGE	02/12/98	13:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

TCLP GC/MS Semivolatiles

Lot-Sample #...: I8B150103-001 **Work Order #...:** CFDA2107 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:15 **Date Received..:** 02/14/98
Leach Date.....: 02/16/98 **Prep Date.....:** 02/18/98 **Analysis Date..:** 02/26/98
Leach Batch #..: P804704 **Prep Batch #...:** 8049233 **Analysis Time..:** 13:46
Dilution Factor: 1
% Moisture.....: 8.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(21 - 100)
Phenol-d5	85	(10 - 94)
Nitrobenzene-d5	75	(35 - 114)
2-Fluorobiphenyl	59	(43 - 116)
2,4,6-Tribromophenol	76	(10 - 123)
Terphenyl-d14	93	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

TCLP GC/MS Volatiles

Lot-Sample #...: I8B150103-001 **Work Order #...:** CFDA210J **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:15 **Date Received..:** 02/14/98
Leach Date.....: 02/23/98 **Prep Date.....:** 02/27/98 **Analysis Date..:** 02/28/98
Leach Batch #..: P805602 **Prep Batch #...:** 8062161 **Analysis Time..:** 00:41
Dilution Factor: 1
% Moisture.....: 8.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	94	(86 - 115)
Toluene-d8	100	(88 - 110)
Dibromofluoromethane	99	(86 - 118)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-BACKFILL

TCLP GC/MS Semivolatiles

Lot-Sample #...: I8B150103-002 **Work Order #...:** CFDA3107 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:30 **Date Received..:** 02/14/98
Leach Date.....: 02/16/98 **Prep Date.....:** 02/18/98 **Analysis Date..:** 02/26/98
Leach Batch #..: P804704 **Prep Batch #...:** 8049233 **Analysis Time..:** 15:49
Dilution Factor: 1
% Moisture.....: 8.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(21 - 100)
Phenol-d5	89	(10 - 94)
Nitrobenzene-d5	74	(35 - 114)
2-Fluorobiphenyl	57	(43 - 116)
2,4,6-Tribromophenol	79	(10 - 123)
Terphenyl-d14	88	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-BACKFILL

TCLP GC/MS Volatiles

Lot-Sample #...: I8B150103-002 **Work Order #...:** CFDA310J **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:30 **Date Received..:** 02/14/98
Leach Date.....: 02/23/98 **Prep Date.....:** 02/27/98 **Analysis Date..:** 02/28/98
Leach Batch #..: P805602 **Prep Batch #...:** 8062161 **Analysis Time..:** 01:15
Dilution Factor: 1
% Moisture.....: 8.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	95	(86 - 115)
Toluene-d8	98	(88 - 110)
Dibromofluoromethane	100	(86 - 118)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-SOLIDS/SLUDGE

TCLP GC/MS Semivolatiles

Lot-Sample #...: I8B150103-003 **Work Order #...:** CFDA4107 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 11:00 **Date Received..:** 02/13/98
Leach Date.....: 02/16/98 **Prep Date.....:** 02/18/98 **Analysis Date..:** 02/26/98
Leach Batch #..: P804704 **Prep Batch #...:** 8049233 **Analysis Time..:** 16:20
Dilution Factor: 1
% Moisture.....: 30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(21 - 100)
Phenol-d5	96 *	(10 - 94)
Nitrobenzene-d5	106	(35 - 114)
2-Fluorobiphenyl	58	(43 - 116)
2,4,6-Tribromophenol	51	(10 - 123)
Terphenyl-d14	90	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

* Surrogate recovery is outside stated control limits.

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-SOLIDS/SLUDGE

TCLP GC/MS Volatiles

Lot-Sample #...: I8B150103-003 **Work Order #...:** CFDA410J **Matrix.....:** SOLID
Date Sampled...: 02/12/98 11:00 **Date Received..:** 02/13/98
Leach Date.....: 02/23/98 **Prep Date.....:** 02/27/98 **Analysis Date..:** 02/28/98
Leach Batch #..: P805602 **Prep Batch #...:** 8062161 **Analysis Time..:** 01:49
Dilution Factor: 1
% Moisture.....: 30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	92	(86 - 115)
Toluene-d8	100	(88 - 110)
Dibromofluoromethane	97	(86 - 118)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-SLUDGE

TCLP GC/MS Semivolatiles

Lot-Sample #...: I8B150103-004 **Work Order #...:** CFDA5107 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 13:00 **Date Received..:** 02/13/98
Leach Date.....: 02/16/98 **Prep Date.....:** 02/18/98 **Analysis Date..:** 02/26/98
Leach Batch #..: P804704 **Prep Batch #...:** 8049233 **Analysis Time..:** 16:50
Dilution Factor: 1
% Moisture.....: 52

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	83	(21 - 100)
Phenol-d5	94	(10 - 94)
Nitrobenzene-d5	76	(35 - 114)
2-Fluorobiphenyl	59	(43 - 116)
2,4,6-Tribromophenol	69	(10 - 123)
Terphenyl-d14	45	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-SLUDGE

TCLP GC/MS Volatiles

Lot-Sample #...: I8B150103-004 **Work Order #...:** CFDA510J **Matrix.....:** SOLID
Date Sampled...: 02/12/98 13:00 **Date Received..:** 02/13/98
Leach Date.....: 02/23/98 **Prep Date.....:** 02/27/98 **Analysis Date..:** 02/28/98
Leach Batch #..: P805602 **Prep Batch #...:** 8062161 **Analysis Time..:** 02:23
Dilution Factor: 1
% Moisture.....: 52

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	**0.18**	**0.050**	**mg/L**	**SW846 8260A**
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	89	(86 - 115)
Toluene-d8	97	(88 - 110)
Dibromofluoromethane	97	(86 - 118)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

General Chemistry

Lot-Sample #...: I8B150103-001 Work Order #...: CFDA2 Matrix.....: SOLID
Date Sampled...: 02/12/98 10:15 Date Received..: 02/14/98
% Moisture.....: 8.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	7.6	1.0	No Units	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Flashpoint	>150	>150	deg F	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Percent Moisture	8.4	0.50	%	OCLP OLM03.1	02/17-02/18/98	8048212
		Dilution Factor: 1				
		Analysis Time..: 10:00				
Reactive Cyanide	ND	220	mg/kg	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide	ND	220	mg/kg	SW846 7.3.4	02/16/98	8047137
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons	14000	1100	mg/kg	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 100				
		Analysis Time..: 13:00				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-BACKFILL

General Chemistry

Lot-Sample #...: I8B150103-002 **Work Order #...:** CFDA3 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:30 **Date Received..:** 02/14/98
% Moisture.....: 8.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	7.9	1.0	No Units	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Flashpoint	>150	>150	deg F	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Percent Moisture	8.8	0.50	%	OCLP OLM03.1	02/17-02/18/98	8048212
		Dilution Factor: 1				
		Analysis Time..: 10:00				
Reactive Cyanide	ND	220	mg/kg	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide	ND	220	mg/kg	SW846 7.3.4	02/16/98	8047137
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons	110	11	mg/kg	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1				
		Analysis Time..: 13:00				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-SOLIDS/SLUDGE

General Chemistry

Lot-Sample #...: I8B150103-003 **Work Order #...:** CFDA4 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 11:00 **Date Received..:** 02/13/98
% Moisture.....: 30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	**9.5**	**1.0**	**No Units**	**SW846 9045A**	**02/16/98**	**8047188**
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Flashpoint	**>150**	**>150**	**deg F**	**SW846 1010**	**02/15-02/16/98**	**8047152**
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Percent Moisture	**30.1**	**0.50**	**%**	**OCLP OLM03.1**	**02/17-02/18/98**	**8048212**
		Dilution Factor: 1				
		Analysis Time..: 10:00				
Reactive Cyanide	ND	290	mg/kg	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide	ND	290	mg/kg	SW846 7.3.4	02/16/98	8047137
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons	**49000**	**2900**	**mg/kg**	**MCAWW 418.1**	**02/24-02/25/98**	**8055155**
		Dilution Factor: 200				
		Analysis Time..: 13:00				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-SLUDGE

General Chemistry

Lot-Sample #...: I8B150103-004 Work Order #...: CFDA5 Matrix.....: SOLID
Date Sampled...: 02/12/98 13:00 Date Received..: 02/13/98
% Moisture.....: 52

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	5.1	1.0	No Units	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Flashpoint	>150	>150	deg F	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Percent Moisture	52.2	0.50	%	OCLP OLM03.1	02/17-02/18/98	8048212
		Dilution Factor: 1				
		Analysis Time..: 10:00				
Reactive Cyanide	ND	420	mg/kg	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide	ND	420	mg/kg	SW846 7.3.4	02/16/98	8047137
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons	550000	10000	mg/kg	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 500				
		Analysis Time..: 10:00				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

TCLP Metals

Lot-Sample #...: I8B150103-001 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:15 **Date Received..:** 02/14/98
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049226						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA2108
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA2109
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDA210A
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDA210C
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA210D
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA210E
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDA210F
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Prep Batch #...: 8051213						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDA210G
		Dilution Factor: 1				
		Analysis Time..: 08:53				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-BACKFILL

TCLP Metals

Lot-Sample #...: I8B150103-002 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:30 **Date Received..:** 02/14/98
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049226						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA3108
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA3109
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDA310A
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDA310C
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA310D
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA310E
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDA310F
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Prep Batch #...: 8051213						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDA310G
		Dilution Factor: 1				
		Analysis Time..: 09:05				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-SOLIDS/SLUDGE

TCLP Metals

Lot-Sample #...: I8B150103-003 Matrix.....: SOLID
Date Sampled...: 02/12/98 11:00 Date Received..: 02/13/98
Leach Date.....: 02/16/98 Leach Batch #..: P804704

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049226						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA4108
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA4109
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDA410A
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDA410C
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA410D
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA410E
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDA410F
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Prep Batch #...: 8051213						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDA410G
		Dilution Factor: 1				
		Analysis Time..: 09:07				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-SLUDGE

TCLP Metals

Lot-Sample #...: I8B150103-004 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 13:00 **Date Received..:** 02/13/98
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049226						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA5108
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA5109
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDA510A
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDA510C
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA510D
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA510E
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDA510F
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Prep Batch #...: 8051213						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDA510G
		Dilution Factor: 1				
		Analysis Time..: 09:09				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

QC DATA ASSOCIATION SUMMARY

I8B150103

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8055155	8055038
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082
002	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8055155	8055038
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082
003	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8055155	8055038
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082
004	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8061186	8061073
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082

Quanterra
Environmental Services

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8B150103 **Work Order #...:** CFDN9109 **Matrix.....:** SOLID
MB Lot-Sample #: I8B160000-214
Leach Date.....: 02/16/98 **Prep Date.....:** 02/18/98 **Analysis Date..:** 02/26/98
Leach Batch #..: P804704 **Prep Batch #...:** 8049233 **Analysis Time..:** 12:45
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
Phenol-d5	88	(10 - 94)
Nitrobenzene-d5	68	(35 - 114)
2-Fluorobiphenyl	50	(43 - 116)
2,4,6-Tribromophenol	71	(10 - 123)
Terphenyl-d14	90	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: I8B150103 **Work Order #...:** CFLX7101 **Matrix.....:** SOLID
MB Lot-Sample #: I8C030000-161

Prep Date.....: 02/27/98 **Analysis Time..:** 17:18
Analysis Date..: 02/27/98 **Prep Batch #...:** 8062161
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	91	(86 - 115)
Toluene-d8	97	(88 - 110)
Dibromofluoromethane	96	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I8B160000-214 **Prep Batch #...:** 8051213						
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDN9106
		Dilution Factor: 1				
		Analysis Time..: 08:49				
MB Lot-Sample #: I8B160000-214 **Prep Batch #...:** 8049226						
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9107
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9108
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDN9101
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDN9102
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9103
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9104
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDN9105
		Dilution Factor: 1				
		Analysis Time..: 14:17				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFH8D101		MB Lot-Sample #: I8B240000-155		
	ND	10	mg/kg	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFLG2101		MB Lot-Sample #: I8C020000-186		
	ND	10	mg/kg	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1				
		Analysis Time..: 10:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: I8B150103 **Work Order #...:** CFETD101 **Matrix.....:** SOLID
LCS Lot-Sample#: I8B180000-233
Prep Date.....: 02/18/98 **Analysis Date..:** 02/26/98
Prep Batch #...: 8049233 **Analysis Time..:** 13:16
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Pyridine	**0.40**	**0.18**	**mg/L**	**45**	**SW846 8270B**
1,4-Dichlorobenzene	**0.40**	**0.25**	**mg/L**	**63**	**SW846 8270B**
o-Cresol	**0.40**	**0.34**	**mg/L**	**84**	**SW846 8270B**
m-Cresol & p-Cresol	**0.80**	**0.69**	**mg/L**	**87**	**SW846 8270B**
Hexachloroethane	**0.40**	**0.25**	**mg/L**	**64**	**SW846 8270B**
Nitrobenzene	**0.40**	**0.30**	**mg/L**	**76**	**SW846 8270B**
Hexachlorobutadiene	**0.40**	**0.24**	**mg/L**	**60**	**SW846 8270B**
2,4,6-Trichlorophenol	**0.40**	**0.27**	**mg/L**	**67**	**SW846 8270B**
2,4,5-Trichlorophenol	**0.40**	**0.27**	**mg/L**	**67**	**SW846 8270B**
2,4-Dinitrotoluene	**0.40**	**0.28**	**mg/L**	**70**	**SW846 8270B**
Hexachlorobenzene	**0.40**	**0.35**	**mg/L**	**88**	**SW846 8270B**
Pentachlorophenol	**0.40**	**0.35**	**mg/L**	**87**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(21 - 100)
Phenol-d5	93	(10 - 94)
Nitrobenzene-d5	74	(35 - 114)
2-Fluorobiphenyl	61	(43 - 116)
2,4,6-Tribromophenol	78	(10 - 123)
Terphenyl-d14	104	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: I8B150103 **Work Order #...:** CFLX7102 **Matrix.....:** SOLID
LCS Lot-Sample#: I8C030000-161
Prep Date.....: 02/27/98 **Analysis Date..:** 02/27/98
Prep Batch #...: 8062161 **Analysis Time..:** 17:52
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Vinyl chloride	**0.50**	**0.71**	**mg/L**	**142**	**SW846 8260A**
1,1-Dichloroethylene	**0.50**	**0.65**	**mg/L**	**129**	**SW846 8260A**
Chloroform	**0.50**	**0.50**	**mg/L**	**100**	**SW846 8260A**
1,2-Dichloroethane	**0.50**	**0.47**	**mg/L**	**94**	**SW846 8260A**
Methyl ethyl ketone	**0.50**	**0.13**	**mg/L**	**27**	**SW846 8260A**
Carbon tetrachloride	**0.50**	**0.57**	**mg/L**	**113**	**SW846 8260A**
Trichloroethylene	**0.50**	**0.52**	**mg/L**	**104**	**SW846 8260A**
Benzene	**0.50**	**0.51**	**mg/L**	**101**	**SW846 8260A**
Tetrachloroethylene	**0.50**	**0.56**	**mg/L**	**112**	**SW846 8260A**
Chlorobenzene	**0.50**	**0.52**	**mg/L**	**104**	**SW846 8260A**
1,4-Dichlorobenzene	**0.50**	**0.53**	**mg/L**	**107**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	91	(86 - 115)
Toluene-d8	96	(88 - 110)
Dibromofluoromethane	104	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity			Work Order #: CFDLG101 LCS Lot-Sample#: I8B160000-188				
	9.0	9.2	No Units	101	SW846 9045A	02/16/98	8047188
			Dilution Factor: 1				
			Analysis Time..: 14:00				
Flashpoint			Work Order #: CFDMP101 LCS Lot-Sample#: I8B160000-152				
	81	81	deg F	100	SW846 1010	02/15-02/16/98	8047152
			Dilution Factor: 1				
			Analysis Time..: 10:00				
Reactive Cyanide			Work Order #: CFDE0102 LCS Lot-Sample#: I8B160000-136				
	40	2.9	mg/L	7.3	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1				
			Analysis Time..: 16:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFH8D102 LCS Lot-Sample#: I8B240000-155				
	250	210	mg/kg	86	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1				
			Analysis Time..: 00:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFLG2102 LCS Lot-Sample#: I8C020000-186				
	250	230	mg/kg	91	MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1				
			Analysis Time..: 13:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity			Work Order #: CFDLG101 LCS Lot-Sample#: I8B160000-188				
	9.0	9.2	No Units	101	SW846 9045A	02/16/98	8047188
			Dilution Factor: 1				
			Analysis Time..: 14:00				
Flashpoint			Work Order #: CFDMP101 LCS Lot-Sample#: I8B160000-152				
	81	81	deg F	100	SW846 1010	02/15-02/16/98	8047152
			Dilution Factor: 1				
			Analysis Time..: 10:00				
Reactive Cyanide			Work Order #: CFDE0102 LCS Lot-Sample#: I8B160000-136				
	40	2.9	mg/L	7.3	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1				
			Analysis Time..: 16:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFH8D102 LCS Lot-Sample#: I8B240000-155				
	250	210	mg/kg	86	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1				
			Analysis Time..: 00:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFLG2102 LCS Lot-Sample#: I8C020000-186				
	250	230	mg/kg	91	MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1				
			Analysis Time..: 13:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8B180000-226 **Prep Batch #...:** 8049226							
Barium	2.0	2.0	mg/L	100	SW846 6010A	02/18-02/19/98	CFETA101
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Cadmium	0.050	0.054	mg/L	109	SW846 6010A	02/18-02/19/98	CFETA102
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Chromium	0.20	0.20	mg/L	101	SW846 6010A	02/18-02/19/98	CFETA103
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Lead	0.50	0.46	mg/L	93	SW846 6010A	02/18-02/19/98	CFETA104
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Selenium	2.0	1.9	mg/L	94	SW846 6010A	02/18-02/19/98	CFETA105
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Silver	0.050	0.046	mg/L	93	SW846 6010A	02/18-02/19/98	CFETA106
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Arsenic	2.0	2.0	mg/L	100	SW846 6010A	02/18-02/19/98	CFETA107
			Dilution Factor: 1				
			Analysis Time..: 14:20				
LCS Lot-Sample#: I8B200000-213 **Prep Batch #...:** 8051213							
Mercury	0.0050	0.0049	mg/L	99	SW846 7470A	02/20-02/24/98	CFG8X101
			Dilution Factor: 1				
			Analysis Time..: 08:51				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: I8B150103 **Work Order #...:** CFETD101 **Matrix.....:** SOLID
LCS Lot-Sample#: I8B180000-233
Prep Date.....: 02/18/98 **Analysis Date..:** 02/26/98
Prep Batch #...: 8049233 **Analysis Time..:** 13:16
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Pyridine	**45**	**(1.0- 144)**	**SW846 8270B**
1,4-Dichlorobenzene	**63**	**(26 - 112)**	**SW846 8270B**
o-Cresol	**84**	**(21 - 137)**	**SW846 8270B**
m-Cresol & p-Cresol	**87**	**(19 - 126)**	**SW846 8270B**
Hexachloroethane	**64**	**(26 - 102)**	**SW846 8270B**
Nitrobenzene	**76**	**(42 - 120)**	**SW846 8270B**
Hexachlorobutadiene	**60**	**(33 - 111)**	**SW846 8270B**
2,4,6-Trichlorophenol	**67**	**(19 - 122)**	**SW846 8270B**
2,4,5-Trichlorophenol	**67**	**(29 - 123)**	**SW846 8270B**
2,4-Dinitrotoluene	**70**	**(31 - 106)**	**SW846 8270B**
Hexachlorobenzene	**88**	**(42 - 120)**	**SW846 8270B**
Pentachlorophenol	**87**	**(12 - 156)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(21 - 100)
Phenol-d5	93	(10 - 94)
Nitrobenzene-d5	74	(35 - 114)
2-Fluorobiphenyl	61	(43 - 116)
2,4,6-Tribromophenol	78	(10 - 123)
Terphenyl-d14	104	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: I8B150103 Work Order #...: CFLX7102 Matrix.....: SOLID
LCS Lot-Sample#: I8C030000-161
Prep Date.....: 02/27/98 Analysis Date..: 02/27/98
Prep Batch #...: 8062161 Analysis Time..: 17:52
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Vinyl chloride	**142**	**(1.0- 251)**	**SW846 8260A**
1,1-Dichloroethylene	**129**	**(59 - 155)**	**SW846 8260A**
Chloroform	**100**	**(51 - 136)**	**SW846 8260A**
1,2-Dichloroethane	**94**	**(49 - 155)**	**SW846 8260A**
Methyl ethyl ketone	**27**	**(25 - 250)**	**SW846 8260A**
Carbon tetrachloride	**113**	**(71 - 240)**	**SW846 8260A**
Trichloroethylene	**104**	**(71 - 157)**	**SW846 8260A**
Benzene	**101**	**(37 - 151)**	**SW846 8260A**
Tetrachloroethylene	**112**	**(46 - 157)**	**SW846 8260A**
Chlorobenzene	**104**	**(37 - 160)**	**SW846 8260A**
1,4-Dichlorobenzene	**107**	**(75 - 137)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	91	(86 - 115)
Toluene-d8	96	(88 - 110)
Dibromofluoromethane	104	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity		Work Order #: CFDLG101	LCS Lot-Sample#: I8B160000-188		
	101	(90 - 110)	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1			
		Analysis Time..: 14:00			
Flashpoint		Work Order #: CFDMP101	LCS Lot-Sample#: I8B160000-152		
	100	(95 - 105)	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1			
		Analysis Time..: 10:00			
Reactive Cyanide		Work Order #: CFDE0102	LCS Lot-Sample#: I8B160000-136		
	7.3	(1.0- 64)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1			
		Analysis Time..: 16:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFH8D102	LCS Lot-Sample#: I8B240000-155		
	86	(70 - 130)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1			
		Analysis Time..: 00:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFLG2102	LCS Lot-Sample#: I8C020000-186		
	91	(70 - 130)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1			
		Analysis Time..: 13:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity		Work Order #: CFDLG101	LCS Lot-Sample#: I8B160000-188		
	101	(90 - 110)	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1			
		Analysis Time..: 14:00			
Flashpoint		Work Order #: CFDMP101	LCS Lot-Sample#: I8B160000-152		
	100	(95 - 105)	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1			
		Analysis Time..: 10:00			
Reactive Cyanide		Work Order #: CFDE0102	LCS Lot-Sample#: I8B160000-136		
	7.3	(1.0- 64)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1			
		Analysis Time..: 16:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFH8D102	LCS Lot-Sample#: I8B240000-155		
	86	(70 - 130)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1			
		Analysis Time..: 00:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFLG2102	LCS Lot-Sample#: I8C020000-186		
	91	(70 - 130)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1			
		Analysis Time..: 13:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8B180000-226 **Prep Batch #...:** 8049226					
Barium	100	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA101
Cadmium	109	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA102
Chromium	101	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA103
Lead	93	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA104
Selenium	94	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA105
Silver	93	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA106
Arsenic	100	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA107
LCS Lot-Sample#: I8B200000-213 **Prep Batch #...:** 8051213					
Mercury	99	(80 - 120)	SW846 7470A Dilution Factor: 1 Analysis Time..: 08:51	02/20-02/24/98	CFG8X101

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8049226									
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704									
Silver									
	ND	1.0	0.99	mg/L	99		SW846 6010A	02/18-02/19/98	CFDA210W
	ND	1.0	1.0	mg/L	101	1.4	SW846 6010A	02/18-02/19/98	CFDA210X
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Arsenic									
	ND	5.0	4.9	mg/L	98		SW846 6010A	02/18-02/19/98	CFDA2110
	ND	5.0	4.9	mg/L	98	0.32	SW846 6010A	02/18-02/19/98	CFDA2111
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Barium									
	ND	50.0	53.2	mg/L	101		SW846 6010A	02/18-02/19/98	CFDA210K
	ND	50.0	53.7	mg/L	102	1.0	SW846 6010A	02/18-02/19/98	CFDA210L
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Cadmium									
	ND	1.0	0.92	mg/L	91		SW846 6010A	02/18-02/19/98	CFDA210M
	ND	1.0	0.93	mg/L	92	1.0	SW846 6010A	02/18-02/19/98	CFDA210N
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Chromium									
	ND	5.0	4.8	mg/L	96		SW846 6010A	02/18-02/19/98	CFDA210P
	ND	5.0	4.9	mg/L	97	0.82	SW846 6010A	02/18-02/19/98	CFDA210Q
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Lead									
	ND	5.0	4.5	mg/L	91		SW846 6010A	02/18-02/19/98	CFDA210R
	ND	5.0	4.6	mg/L	92	0.70	SW846 6010A	02/18-02/19/98	CFDA210T
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Selenium									
	ND	1.0	0.90	mg/L	90		SW846 6010A	02/18-02/19/98	CFDA210U
	ND	1.0	0.91	mg/L	91	1.5	SW846 6010A	02/18-02/19/98	CFDA210V
				Dilution Factor: 1					
				Analysis Time..: 14:27					

MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8051213
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

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Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury									
	ND	0.001	0.00089	mg/L	89		SW846 7470A	02/20-02/24/98	CFDA211
	ND	0.001	0.00081	mg/L	81	9.4	SW846 7470A	02/20-02/24/98	CFDA211

Dilution Factor: 1
Analysis Time..: 09:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8B150103 Work Order #...: CFDA2112-MS Matrix.....: SOLID
MS Lot-Sample #: I8B150103-001 CFDA2113-MSD
Date Sampled...: 02/12/98 10:15 Date Received..: 02/14/98
Leach Date.....: 02/16/98 Prep Date.....: 02/18/98 Analysis Date..: 02/26/98
Leach Batch #..: P804704 Prep Batch #...: 8049233 Analysis Time..: 15:19
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
o-Cresol	ND	0.40	0.30	mg/L	76		SW846 8270B
	ND	0.40	0.30	mg/L	75	1.8	SW846 8270B
m-Cresol & p-Cresol	ND	0.80	0.64	mg/L	80		SW846 8270B
	ND	0.80	0.63	mg/L	78	2.0	SW846 8270B
1,4-Dichlorobenzene	ND	0.40	0.23	mg/L	56		SW846 8270B
	ND	0.40	0.23	mg/L	57	1.3	SW846 8270B
2,4-Dinitrotoluene	ND	0.40	0.29	mg/L	72		SW846 8270B
	ND	0.40	0.31	mg/L	79	8.2	SW846 8270B
Hexachlorobenzene	ND	0.40	0.21	mg/L	53		SW846 8270B
	ND	0.40	0.22	mg/L	55	5.0	SW846 8270B
Hexachlorobutadiene	ND	0.40	0.23	mg/L	57		SW846 8270B
	ND	0.40	0.24	mg/L	59	3.6	SW846 8270B
Hexachloroethane	ND	0.40	0.24	mg/L	59		SW846 8270B
	ND	0.40	0.25	mg/L	62	4.0	SW846 8270B
Nitrobenzene	ND	0.40	0.28	mg/L	70		SW846 8270B
	ND	0.40	0.29	mg/L	73	4.2	SW846 8270B
Pentachlorophenol	ND	0.40	0.27	mg/L	68		SW846 8270B
	ND	0.40	0.28	mg/L	71	4.4	SW846 8270B
Pyridine	ND	0.40	0.29	mg/L	72		SW846 8270B
	ND	0.40	0.30	mg/L	76	5.0	SW846 8270B
2,4,5-Trichlorophenol	ND	0.40	0.30	mg/L	74		SW846 8270B
	ND	0.40	0.32	mg/L	79	7.0	SW846 8270B
2,4,6-Trichlorophenol	ND	0.40	0.28	mg/L	69		SW846 8270B
	ND	0.40	0.28	mg/L	70	2.0	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
	71	(21 - 100)
Phenol-d5	83	(10 - 94)
	87	(10 - 94)
Nitrobenzene-d5	67	(35 - 114)
	70	(35 - 114)
2-Fluorobiphenyl	57	(43 - 116)
	55	(43 - 116)
2,4,6-Tribromophenol	67	(10 - 123)
	71	(10 - 123)
Terphenyl-d14	64	(33 - 141)
	50	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Volatiles

Client Lot #...:	I8B150103	**Work Order #...:**	CFFV210E-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	I8B200120-002		CFFV210F-MSD		
Date Sampled...:	02/19/98 10:30	**Date Received..:**	02/20/98		
Leach Date.....:	02/23/98	**Prep Date.....:**	02/27/98	**Analysis Date..:**	02/27/98
Leach Batch #..:	P805602	**Prep Batch #...:**	8062161	**Analysis Time..:**	19:00
Dilution Factor:	1				

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Vinyl chloride	**ND**	**0.50**	**0.68**	**mg/L**	**136**		**SW846 8260A**
	ND	**0.50**	**0.70**	**mg/L**	**140**	**2.8**	**SW846 8260A**
1,1-Dichloroethylene	**ND**	**0.50**	**0.50**	**mg/L**	**100**		**SW846 8260A**
	ND	**0.50**	**0.55**	**mg/L**	**110**	**9.0**	**SW846 8260A**
Chloroform	**ND**	**0.50**	**0.48**	**mg/L**	**96**		**SW846 8260A**
	ND	**0.50**	**0.48**	**mg/L**	**95**	**0.20**	**SW846 8260A**
1,2-Dichloroethane	**ND**	**0.50**	**0.46**	**mg/L**	**91**		**SW846 8260A**
	ND	**0.50**	**0.47**	**mg/L**	**94**	**2.5**	**SW846 8260A**
Methyl ethyl ketone	**ND**	**0.50**	**0.13**	**mg/L**	**26**		**SW846 8260A**
	ND	**0.50**	**0.15**	**mg/L**	**30**	**14**	**SW846 8260A**
Carbon tetrachloride	**ND**	**0.50**	**0.53**	**mg/L**	**106**		**SW846 8260A**
	ND	**0.50**	**0.55**	**mg/L**	**110**	**4.0**	**SW846 8260A**
Trichloroethylene	**ND**	**0.50**	**0.52**	**mg/L**	**104**		**SW846 8260A**
	ND	**0.50**	**0.53**	**mg/L**	**106**	**2.7**	**SW846 8260A**
Benzene	**ND**	**0.50**	**0.48**	**mg/L**	**96**		**SW846 8260A**
	ND	**0.50**	**0.50**	**mg/L**	**99**	**3.2**	**SW846 8260A**
Tetrachloroethylene	**ND**	**0.50**	**0.59**	**mg/L**	**119**		**SW846 8260A**
	ND	**0.50**	**0.55**	**mg/L**	**110**	**7.8**	**SW846 8260A**
Chlorobenzene	**ND**	**0.50**	**0.52**	**mg/L**	**103**		**SW846 8260A**
	ND	**0.50**	**0.52**	**mg/L**	**105**	**1.2**	**SW846 8260A**
1,4-Dichlorobenzene	**ND**	**0.50**	**0.52**	**mg/L**	**103**		**SW846 8260A**
	ND	**0.50**	**0.53**	**mg/L**	**105**	**1.6**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	90	(86 - 115)
	93	(86 - 115)
Toluene-d8	103	(88 - 110)
	95	(88 - 110)
Dibromofluoromethane	102	(86 - 118)
	101	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide			WO#: CFD2Q10K-MS/CFD2Q10L-MSD			MS Lot-Sample #: I8B140105-001				
	ND	40	0.20	N	mg/kg	0.51		SW846 7.3.3	02/16-02/17/98	8047136
	ND	40	0.20	N	mg/kg	0.49	4.0	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1							
			Analysis Time..: 16:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA310K-MS/CFDA310L-MSD			MS Lot-Sample #: I8B150103-002				
	110	270	270	N	mg/kg	57		MCAWW 418.1	02/24-02/25/98	8055155
	110	270	200	N	mg/kg	32	29	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1							
			Analysis Time..: 13:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA510K-MS/CFDA510L-MSD			MS Lot-Sample #: I8B150103-004				
	550000	520	480000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
	550000	520	540000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1							
			Analysis Time..: 10:00							

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide			WO#: CFD2Q10K-MS/CFD2Q10L-MSD			MS Lot-Sample #: I8B140105-001				
	ND	40	0.20	N	mg/kg	0.51		SW846 7.3.3	02/16-02/17/98	8047136
	ND	40	0.20	N	mg/kg	0.49	4.0	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1							
			Analysis Time..: 16:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA310K-MS/CFDA310L-MSD			MS Lot-Sample #: I8B150103-002				
	110	270	270	N	mg/kg	57		MCAWW 418.1	02/24-02/25/98	8055155
	110	270	200	N	mg/kg	32	29	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1							
			Analysis Time..: 13:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA510K-MS/CFDA510L-MSD			MS Lot-Sample #: I8B150103-004				
	550000	520	480000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
	550000	520	540000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1							
			Analysis Time..: 10:00							

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8049226							
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704							
Silver	99	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210W
	101	(80 - 120)	1.4	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210X
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Arsenic	98	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA2110
	98	(80 - 120)	0.32	(0-20)	SW846 6010A	02/18-02/19/98	CFDA2111
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Barium	101	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210K
	102	(80 - 120)	1.0	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210L
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Cadmium	91	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210M
	92	(80 - 120)	1.0	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210N
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Chromium	96	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210P
	97	(80 - 120)	0.82	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210Q
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Lead	91	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210R
	92	(80 - 120)	0.70	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210T
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Selenium	90	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210U
	91	(80 - 120)	1.5	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210V
		Dilution Factor: 1					
		Analysis Time..: 14:27					
MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8051213							
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704							
Mercury	89	(75 - 125)			SW846 7470A	02/20-02/24/98	CFDA2114
	81	(75 - 125)	9.4	(0-20)	SW846 7470A	02/20-02/24/98	CFDA2115
		Dilution Factor: 1					
		Analysis Time..: 09:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...:	I8B150103	**Work Order #...:**	CFDA2112-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	I8B150103-001		CFDA2113-MSD		
Date Sampled...:	02/12/98 10:15	**Date Received..:**	02/14/98		
Leach Date.....:	02/16/98	**Prep Date.....:**	02/18/98	**Analysis Date..:**	02/26/98
Leach Batch #..:	P804704	**Prep Batch #...:**	8049233	**Analysis Time..:**	15:19
Dilution Factor:	1				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	**76**	**(21 - 137)**			**SW846 8270B**
	75	**(21 - 137)**	**1.8**	**(0-70)**	**SW846 8270B**
m-Cresol & p-Cresol	**80**	**(19 - 126)**			**SW846 8270B**
	78	**(19 - 126)**	**2.0**	**(0-94)**	**SW846 8270B**
1,4-Dichlorobenzene	**56**	**(26 - 112)**			**SW846 8270B**
	57	**(26 - 112)**	**1.3**	**(0-40)**	**SW846 8270B**
2,4-Dinitrotoluene	**72**	**(31 - 106)**			**SW846 8270B**
	79	**(31 - 106)**	**8.2**	**(0-55)**	**SW846 8270B**
Hexachlorobenzene	**53**	**(42 - 120)**			**SW846 8270B**
	55	**(42 - 120)**	**5.0**	**(0-39)**	**SW846 8270B**
Hexachlorobutadiene	**57**	**(33 - 111)**			**SW846 8270B**
	59	**(33 - 111)**	**3.6**	**(0-40)**	**SW846 8270B**
Hexachloroethane	**59**	**(26 - 102)**			**SW846 8270B**
	62	**(26 - 102)**	**4.0**	**(0-44)**	**SW846 8270B**
Nitrobenzene	**70**	**(42 - 120)**			**SW846 8270B**
	73	**(42 - 120)**	**4.2**	**(0-40)**	**SW846 8270B**
Pentachlorophenol	**68**	**(12 - 156)**			**SW846 8270B**
	71	**(12 - 156)**	**4.4**	**(0-76)**	**SW846 8270B**
Pyridine	**72**	**(1.0- 144)**			**SW846 8270B**
	76	**(1.0- 144)**	**5.0**	**(0-95)**	**SW846 8270B**
2,4,5-Trichlorophenol	**74**	**(29 - 123)**			**SW846 8270B**
	79	**(29 - 123)**	**7.0**	**(0-63)**	**SW846 8270B**
2,4,6-Trichlorophenol	**69**	**(19 - 122)**			**SW846 8270B**
	70	**(19 - 122)**	**2.0**	**(0-64)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
	71	(21 - 100)
Phenol-d5	83	(10 - 94)
	87	(10 - 94)
Nitrobenzene-d5	67	(35 - 114)
	70	(35 - 114)
2-Fluorobiphenyl	57	(43 - 116)
	55	(43 - 116)
2,4,6-Tribromophenol	67	(10 - 123)
	71	(10 - 123)
Terphenyl-d14	64	(33 - 141)
	50	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...:	I8B150103	**Work Order #...:**	CFFV210E-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	I8B200120-002		CFFV210F-MSD		
Date Sampled...:	02/19/98 10:30	**Date Received..:**	02/20/98		
Leach Date.....:	02/23/98	**Prep Date.....:**	02/27/98	**Analysis Date..:**	02/27/98
Leach Batch #..:	P805602	**Prep Batch #...:**	8062161	**Analysis Time..:**	19:00
Dilution Factor:	1				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	**136**	**(1.0- 251)**			**SW846 8260A**
	140	**(1.0- 251)**	**2.8**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethylene	**100**	**(59 - 155)**			**SW846 8260A**
	110	**(59 - 155)**	**9.0**	**(0-30)**	**SW846 8260A**
Chloroform	**96**	**(51 - 136)**			**SW846 8260A**
	95	**(51 - 136)**	**0.20**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**91**	**(49 - 155)**			**SW846 8260A**
	94	**(49 - 155)**	**2.5**	**(0-30)**	**SW846 8260A**
Methyl ethyl ketone	**26**	**(25 - 250)**			**SW846 8260A**
	30	**(25 - 250)**	**14**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**106**	**(71 - 240)**			**SW846 8260A**
	110	**(71 - 240)**	**4.0**	**(0-30)**	**SW846 8260A**
Trichloroethylene	**104**	**(71 - 157)**			**SW846 8260A**
	106	**(71 - 157)**	**2.7**	**(0-30)**	**SW846 8260A**
Benzene	**96**	**(37 - 151)**			**SW846 8260A**
	99	**(37 - 151)**	**3.2**	**(0-30)**	**SW846 8260A**
Tetrachloroethylene	**119**	**(46 - 157)**			**SW846 8260A**
	110	**(46 - 157)**	**7.8**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**103**	**(37 - 160)**			**SW846 8260A**
	105	**(37 - 160)**	**1.2**	**(0-30)**	**SW846 8260A**
1,4-Dichlorobenzene	**103**	**(75 - 137)**			**SW846 8260A**
	105	**(75 - 137)**	**1.6**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	90	(86 - 115)
	93	(86 - 115)
Toluene-d8	103	(88 - 110)
	95	(88 - 110)
Dibromofluoromethane	102	(86 - 118)
	101	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		WO#: CFD2Q10K-MS/CFD2Q10L-MSD				MS Lot-Sample #: I8B140105-001	
	0.51 N	(1.0 - 64)			SW846 7.3.3	02/16-02/17/98	8047136
	0.49 N	(1.0 - 64)	4.0	(0-213)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1					
		Analysis Time..: 16:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA310K-MS/CFDA310L-MSD				MS Lot-Sample #: I8B150103-002	
	57 N	(70 - 130)			MCAWW 418.1	02/24-02/25/98	8055155
	32 N	(70 - 130)	29	(0-30)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1					
		Analysis Time..: 13:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA510K-MS/CFDA510L-MSD				MS Lot-Sample #: I8B150103-004	
	NC	(70 - 130)			MCAWW 418.1	03/01-03/03/98	8061186
	NC	(70 - 130)		(0-30)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1					
		Analysis Time..: 10:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		WO#: CFD2Q10K-MS/CFD2Q10L-MSD				MS Lot-Sample #: I8B140105-001	
	0.51 N	(1.0 - 64)			SW846 7.3.3	02/16-02/17/98	8047136
	0.49 N	(1.0 - 64)	4.0	(0-213)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1					
		Analysis Time..: 16:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA310K-MS/CFDA310L-MSD				MS Lot-Sample #: I8B150103-002	
	57 N	(70 - 130)			MCAWW 418.1	02/24-02/25/98	8055155
	32 N	(70 - 130)	29	(0-30)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1					
		Analysis Time..: 13:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA510K-MS/CFDA510L-MSD				MS Lot-Sample #: I8B150103-004	
	NC	(70 - 130)			MCAWW 418.1	03/01-03/03/98	8061186
	NC	(70 - 130)		(0-30)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1					
		Analysis Time..: 10:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Work Order #...:** CFD2Q-SMP CFD2Q-DUP **Matrix.....:** SOLID

Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

% Moisture.....: 0.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #: I8B140105-001		
	ND	ND	mg/kg	0	(0-213)	SW846 7.3.3	02/16-02/17/98	804713
		Dilution Factor: 1						
		Analysis Time..: 16:00						
Reactive Sulfide						SD Lot-Sample #: I8B140105-001		
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.4	02/16/98/17/98	804713
		Dilution Factor: 1						
		Analysis Time..: 00:00						

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SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Work Order #...:** CFD2Q-SMP CFD2Q-DUP **Matrix.....:** SOLID

Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

% Moisture.....: 0.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint						SD Lot-Sample #:	I8B140105-001	
	>150	>150	deg F	0.0	(0-20)	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1						
		Analysis Time..: 00:00						
Corrosivity						SD Lot-Sample #:	I8B140105-001	
	6.5	6.4	No Units	0.62	(0-20)	SW846 9045A	02/16/98/16/98	8047188
		Dilution Factor: 1						
		Analysis Time..: 00:00						

3

Chain of Custody Record

CHAIN OF CUSTODY NUMBER

* 0 0 0 8 7 3 - 0 0 1 *

ISB150103

Quanterra

QUA-4149 (1097)

Client	Project Manager	Date
B.J. SERVICES	Rick Johnson	02/03/1998
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**
3250 SOUTHSIDE RIVER ROAD	(505) 327-6222 / (281) 363-7595	QUANTERRA - AUSTIN
City / **State** / **Zip Code**	**Site Contact**	
FARMINGTON / NM / 87401	Rick Johnson C/O LES BAUGH	
Project Number/Name	**Carrier/Waybill Number**	
Farmington, NM		

Page 1 of 1

Contract/Purchase Order/Quote Number
CONTRACT / PURCHASE ORDER # : Farmington,NM RCRA QUOTE: 22409

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Analysis: %MOISTURE	TRPH	CNOR	SULAR	FLASH	MS8021	MM8021	MM8270	CORTS
~~FWT - Backfill~~	~~2/12/98~~	~~1015~~	~~SOLID~~	~~1000mL~~	~~CLEAR GL~~	~~3~~	~~None~~	GOOD 4.5°C JM	X	X	X	X	X	X	X	X	X
~~AWT - Backfill~~		~~1050~~	~~SOLID~~	~~1000mL~~	~~CLEAR GL~~	~~3~~	~~None~~		X	X	X	X	X	X	X	X	X
AWT - Solids/Sludge		1100	Solid	1000ml	Clear GL	3	None	~~REC'D~~ REC'D 3/3/98	X	X	X	X	X	X	X	X	X
FWT - Sludge		1300	Sludge	500ml	Clear GL	3	None		X	X	X	X	X	X	X	X	X

Special Instructions: Include COC, Custody Seals, Blue Ice
2 sets - 1L -Protocol A
10 sets - 120ml & 250ml- Protocol B

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [X] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal
[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months
(A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
[ ] Normal [ ] Rush [ ] Other _____

QC Level
[ ] I. [ ] II. [ ] III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Cam Klein	2/4/98	1800	1. Received By		
2. Relinquished By: Rick N. Johnson	2/12/98	~~1500~~ 1700	2. Received By: AIRBORNE EXPRESS		
3. Relinquished By			3. Received By	2-14-98	1005

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BIGA/SUNCO LEA Four Corners, Inc
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site old 4-Corners YARD
2. Management Facility Destination SUNCO WASTE MANAGEMENT FAC.	6. Transporter SUNCO
3. Address of Facility Operator CR3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) 5651 US HWY 64 87401	

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:

WASH water from SHOP WASH BAYS; USED TO WASH EQUIPMENT AND VEHICALS

Check water analysis — methylene chloride 1.7ppm

Facility Inspection by Denny F. week of March 9th. Found Some Chemicals one with some amount of Methylene Chloride. This Chemical to be Discontinued Use. MJK

RECEIVED
MAR 10 1998
OIL CON. DIV.
DIST. 3

Reanalize Next Wash bay shipment Check For Methylene Chloride Levels. MJK

Estimated Volume 400bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: manager DATE: 3-9-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TAFOYA TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: _____ TITLE: Geologist DATE: 3/11/98

APPROVED BY: _____ TITLE: Env. Geologist DATE: 3/16/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-13
Originated 8/8/9

Submit Origin
Plus 1 Cop
to appropria
District Offic

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BIGA/SUNCO LEA Four Corners Inc
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site old 4-corners YARD
2. Management Facility Destination SUNCO WASTE MANAGEMENT FAC.	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) 5651 US HWY 64 87401	

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:

WASH WATER FROM SHOP WASH BAYS; USED TO WASH EQUIPMENT AND VECHICALS

RECEIVED
MAR 1 0 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 400bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: manager DATE: 3-9-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TAFOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/11/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator (Name): Address:	3. Location (Street Address &/or ULSTR):
BIGA/SUNCO/KEY FOUR CORNERS INC.	5651 US HWY 64 87401
2. Originating Site (Name):	4. Destination Name:
OLD 4-CORNERS DRILLING SUMP	SUNCO DISPOSAL

5. Source and Description of Waste

I, HAL STONE representative for: KEY FOUR CORNERS INC DBA SUNCO TRUCKING 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 waste

X NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by production identification

For Non-exempt waste only the following documentation is attached (check appropriate items):

___ MSDS Information
✓ RCRA TCLP Analysis
✓ Chain of Custody
___ Other (Description)

Name (Signature): Hal Stone

Printed Name: HAL STONE

Title: GENERAL MANAGER

Date: 3-6-98

Attach list of originating sites as appropriate.

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Michael Talovich
Sunco Trucking
708 S. Tucker
Farmington, NM 87401

March 6, 1998

Mr. Talovich:

Enclosed, please find the reports for the samples received by our laboratory for analysis on February 20, 1997.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

We appreciate your business!

Sincerely,

Sharon Williams
Organics Lab Supervisor

Enclosures
xc: File

CASE NARRATIVE

Client: SUNCO TRUCKING
Project: 4 Corner Drilling Received on: 02/24/98
Set ID: 0598H00826 # samples: 2

Suites: 8260 Standard

Samples were received for analysis at Inter-Mountain Laboratories (IML), Gillette, Wyoming. Enclosed are the results of these analyses.

The listed compounds are from EPA method 8010 which was requested by our Farmington laboratory. The analysis referenced is EPA method 8260.

For the 8260 water analysis: Additional compounds were detected in the water sample and are listed below. For an additional charge IML will provide a quantitative number for each compound:

Detected compounds: Toluene, Ethylbenzene, (m,p)-xylene, o-xylene, 2-Chlorotoluene, 1,2,4-Trimethylbenzene, Naphthalene, and 1,2,3-Trichlorobenzene.

For the 8260 soil analysis: Additional compounds were detected in the soil sample and are listed below. For an additional charge IML will provide a quanitative number for each compound:

Detected compounds: Toluene, Ethylbenzene, (m,p)-xylene, 1,3,5-Trimethylbenzene, and 1,2,4-Trimethylbenzene.

Limits of detection for each instrument/analysis are determined by sample matrix effects, instrument performance under standard conditions, and dilution requirements to maintain chromatography output within calibration ranges. Quantitations have been calculated on an as received basis.

Quality Control reports have been included for your information and use. These reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please contact me at (800) 828-1095.

Ed Detzl

Inter- Mountain Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSES / PARAMETERS
SUNCO	4 CORNER DRILLING	

Sampler: (Signature) Michael Talbot

Chain of Custody Tape No.

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Dispose Plant List					Remarks
Four Corner Drilling	2-20	10:30AM		water	8	✓					
Four Corner Drilling	2-20	2:00PM		Sludge	4	✓					
											cool - on ice, intact, hand delivered

CR

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Michael G. Talbot	2-20	2:30PM			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by laboratory: (Signature)	Date	Time
			Chris Raynor	2-20-98	1430

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue, Sheridan, Wyoming 82801, Telephone (307) 672-8945

1701 Phillips Circle, Gillette, Wyoming 82718, Telephone (307) 682-8945

2506 West Main Street, Farmington, NM 87401, Telephone (505) 326-4737

1160 Research Drive, Bozeman, Montana 59718, Telephone (406) 586-8450

11183 State Hwy. 30, College Station, TX 77845, Telephone (409) 776-8945

51848

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS

Sunco Trucking

Project ID:	Four Corner Drilling	Report Date:	03/04/98
Sample ID:	Four Corner Drilling	Date Sampled:	02/20/98
Lab ID:	0398G00695	Time Sampled:	
Sample Matrix:	Soil	Date Received:	02/20/98
Condition:	Cool/Intact	Date Extracted:	02/25/98
		Date Analyzed:	02/26/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	9.4
Toluene	ND	9.4
Ethylbenzene	ND	9.4
m,p-Xylenes	12.4	9.4
o-Xylene	ND	9.4

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	105%	70%-130%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	**Sunco Trucking**		
Project:	Four Corner Drilling	Date Reported:	03/04/98
Sample ID:	Four Corner Drilling	Date Sampled:	02/20/98
Laboratory ID:	0398G00695	Date Received:	02/20/98
Sample Matrix:	Sludge	Date Analyzed:	02/29/98

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	0.013	0.005	5	mg/L
Barium	2.75	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	<0.01	0.01	5	mg/L
Lead	0.12	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By: _____ Reviewed: _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Client: Sunco Trucking
Project: (Four Corner Drilling)
Sample ID: Four Corner Drilling
Lab ID: 0398G00695
Matrix: Sludge
Condition: Cool/Intact

Date Received: 02/20/98
Date Reported: 03/04/98
Date Sampled: 02/20/98
Time Sampled: 1400

Parameter	Analytical Result	Units		Units	PQL	Method	Analysis Date	Time	Init.
General Parameters									
PH	7.6	s.u.			0.1	EPA 150.1	02/20/98	1645	BJ
Electrical Conductivity	2,940	µmhos/cm			10	EPA 120.1	02/20/98	1645	BJ
Solids - Total Dissolved	2,150	mg/L			10	EPA 160.1	02/20/98	1500	BJ
Solids - Total Dissolved (Calc)	2,090	mg/L			10	Calculation	03/04/98	1440	JG
Solids-Total	300,000	mg/L			10	EPA 160.3	02/26/98	0933	BJ
Alkalinity (CaCO3)	570	mg/L			1	EPA 310.1	02/26/98	0815	AP
Hardness (CaCO3)	163	mg/L			1	Calculation	03/04/98	1440	JG
Major Anions									
Bicarbonate (HCO3)	695	mg/L	11.4	meq/L	1	EPA 310.1	02/26/98	0815	AP
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	02/26/98	0815	AP
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	02/26/98	0815	AP
Chloride	905	mg/L	25.5	meq/L	1	EPA 300.0	02/20/98	1545	AP
Nitrogen - Nitrate/Nitrit	0.19	mg/L	0.01	meq/L	0.05	EPA 353.2	02/27/98	1000	SH
Sulfate	8	mg/L	0.16	meq/L	5	EPA 300.0	02/20/98	1545	AP
Major Cations									
Calcium	48.8	mg/L	2.44	meq/L	0.2	EPA 200.7	02/25/98	1030	ST
Magnesium	9.9	mg/L	0.81	meq/L	0.2	EPA 200.7	03/03/98	1200	ST
Potassium	4.6	mg/L	0.12	meq/L	0.2	EPA 200.7	03/03/98	1200	ST
Sodium	772	mg/L	33.6	meq/L	0.2	EPA 200.7	03/03/98	1200	ST
Cation / Anion Balance QC Information									
Anion Sum			37.1	meq/L	0.01	Calculation	03/04/98	1440	JG
Cation Sum			37.0	meq/L	0.01	Calculation	03/04/98	1440	JG
Cation/Anion Balance			0.20	%	0.01	Calculation	03/04/98	1440	JG

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.
EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/100 August, 1983.

Reviewed By: _____
John Green, Water Lab Supervisor

Inter·Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8260
VOLATILE ORGANIC COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Four Corner Drilling
Project ID: 4 Corner Drilling
Lab ID: B980827 03-0695
Matrix: Sludge

Date Reported: 03/04/98
Date Sampled: 02/20/98
Date Received: 02/24/98
Date Extracted: 03/02/98
Date Analyzed: 03/02/98

Parameter	Result	PQL	Units
1,1,1-Trichloroethane	ND	0.2	mg/kg
1,1,2,2-Tetrachloroethane	ND	0.2	mg/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.2	mg/kg
1,1,2-Trichloroethane	ND	0.2	mg/kg
1,1-Dichloroethane	ND	0.2	mg/kg
1,1-Dichloroethene	ND	0.2	mg/kg
1,2-Dibromoethane (EDB)	ND	0.2	mg/kg
1,2-Dichloroethane	ND	0.2	mg/kg
1,2-Dichloropropane	ND	0.2	mg/kg
Bromodichloromethane	ND	0.2	mg/kg
Bromoform	ND	0.2	mg/kg
Bromomethane	ND	0.2	mg/kg
Carbon Tetrachloride	ND	0.2	mg/kg
Chlorobenzene	ND	0.2	mg/kg
Chloroethane	ND	0.2	mg/kg
Chloroform	ND	0.2	mg/kg
Chloromethane	ND	0.2	mg/kg
cis-1,3-Dichloropropene	ND	0.2	mg/kg
Dibromochloromethane	ND	0.2	mg/kg
Methylene chloride	ND	1.0	mg/kg
Tetrachloroethene (PCE)	ND	0.2	mg/kg
trans-1,2-Dichloroethene	ND	0.2	mg/kg
trans-1,3-Dichloropropene	ND	1.0	mg/kg
Trichloroethene (TCE)	ND	0.2	mg/kg
Vinyl Chloride	ND	0.2	mg/kg

Reference: Method 8260A Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, Final Update II, United States Environmental Protection Agency, September 1994.

Analyst E.D.

Reviewed W.A. Lyn

Inter·Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC
EPA METHOD 8260
BLANK SPIKE

Date Analyzed: 03/02/98
Lab ID: BSS98060 BS1
Matrix: Soil
Date Extracted: 03/02/98

Parameter	Spike Added (mg/kg)	Sample Result (mg/kg)	Spike Result (mg/kg)	BS Recovery %	QC Limits Rec.
Benzene	16.2	0	20.2	125 *	71 -120
Chlorobenzene	16.2	0	13.7	85	76 -127
Toluene	16.2	0	13.3	82	71 -127
Trichloroethene (TCE)	16.2	0	15.6	96	75 -130

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
Bromofluorobenzene	103	74 -121
1,2-Dichloroethane-d4	98	70 -121
Toluene-d8	97	81 -117

Note: Spike Recoveries are calculated using zero for Sample result if Sample result was less than PQL (Practical Quantitation Level).

Spike Recovery: 1 out of 4 outside QC limits.

Analyst E.D.

Reviewed

Inter·Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC
EPA METHOD 8260
METHOD BLANK

Date Analyzed: **03/02/98**
Lab ID: MBS98060
Matrix: Soil
Date Extracted: 03/02/98

Parameter	Result	PQL	Units
QUALITY CONTROL - Surrogate Recovery	**%**	**QC Limits**	
1,2-Dichloroethane-d4	90	70 - 121	
Bromofluorobenzene	111	74 - 121	
Toluene-d8	100	81 - 117	

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst E.D

Reviewed

Inter·Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC
EPA METHOD 8260
METHOD BLANK

Date Analyzed: **03/02/98**
Lab ID: MBS98060
Matrix: Soil
Date Extracted: 03/02/98

Parameter	Result	PQL	Units
1,1,1-Trichloroethane	ND	0.2	mg/kg
1,1,2,2-Tetrachloroethane	ND	0.2	mg/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.2	mg/kg
1,1,2-Trichloroethane	ND	0.2	mg/kg
1,1-Dichloroethane	ND	0.2	mg/kg
1,1-Dichloroethene	ND	0.2	mg/kg
1,2-Dibromoethane (EDB)	ND	0.2	mg/kg
1,2-Dichloroethane	ND	0.2	mg/kg
1,2-Dichloropropane	ND	0.2	mg/kg
Bromodichloromethane	ND	0.2	mg/kg
Bromoform	ND	0.2	mg/kg
Bromomethane	ND	0.2	mg/kg
Carbon Tetrachloride	ND	0.2	mg/kg
Chlorobenzene	ND	0.2	mg/kg
Chloroethane	ND	0.2	mg/kg
Chloroform	ND	0.2	mg/kg
Chloromethane	ND	0.2	mg/kg
cis-1,3-Dichloropropene	ND	0.2	mg/kg
Dibromochloromethane	ND	0.2	mg/kg
Methylene chloride	ND	1.0	mg/kg
Tetrachloroethene (PCE)	ND	0.2	mg/kg
trans-1,2-Dichloroethene	ND	0.2	mg/kg
trans-1,3-Dichloropropene	ND	1.0	mg/kg
Trichloroethene (TCE)	ND	0.2	mg/kg
Vinyl Chloride	ND	0.2	mg/kg

Analyst E.D.

Reviewed

Inter-Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8260
VOLATILE ORGANIC COMPOUNDS

Client:	**SUNCO TRUCKING**		Date Reported:	03/04/98
Sample ID:	Four Corner Drilling		Date Sampled:	02/20/98
Project ID:	4 Corner Drilling		Date Received:	02/24/98
Lab ID:	B980827	03-0695	Date Extracted:	03/02/98
Matrix:	Sludge		Date Analyzed:	03/02/98

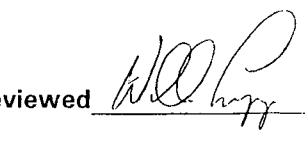
Parameter	Result	PQL	Units

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
1,2-Dichloroethane-d4	87	70 - 121
Bromofluorobenzene	105	74 - 121
Toluene-d8	100	81 - 117

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8260A Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, Final Update II, United States Environmental Protection Agency, September 1994.

Analyst E.D.

Reviewed 

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS

Sunco Trucking

Project ID:	Four Corner Drilling	Report Date:	03/04/98
Sample ID:	Four Corner Drilling	Date Sampled:	02/20/98
Lab ID:	0398G00694	Time Sampled:	1030
Sample Matrix:	Water	Date Received:	02/20/98
Condition:	Cool/Intact	Date Extracted:	NA
		Date Analyzed:	02/25/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	0.58	0.2
Toluene	9.16	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	29.9	0.2
o-Xylene	17	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	110%	70%-130%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	**Sunco Trucking**		
Project:	Four Corner Drilling	Date Reported:	03/04/98
Sample ID:	Four Corner Drilling	Date Sampled:	02/20/98
Laboratory ID:	0398G00694	Date Received:	02/20/98
Sample Matrix:	Water	Date Analyzed:	02/29/98

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	<0.005	0.005	5	mg/L
Barium	0.13	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	0.02	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By: _____ Reviewed: _____

Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Client: Sunco Trucking
Project: (Four Corner Drilling)
Sample ID: Four Corner Drilling
Lab ID: 0398G00694
Matrix: Water
Condition: Cool/Intact

Date Received: 02/20/98
Date Reported: 03/04/98
Date Sampled: 02/20/98
Time Sampled: 1030

Parameter	Analytical Result	Units		Units	PQL	Method	Analysis Date	Time	Init.
General Parameters									
PH	7.0	s.u.			0.1	EPA 150.1	02/20/98	1645	BJ
Electrical Conductivity	920	µmhos/cm			10	EPA 120.1	02/20/98	1645	BJ
Solids - Total Dissolved	550	mg/L			10	EPA 160.1	02/20/98	1500	BJ
Solids - Total Dissolved (Calc)	490	mg/L			10	Calculation	03/04/98	1440	JG
Solids-Total	810	mg/L			10	EPA 160.3	02/26/98	0933	BJ
Alkalinity (CaCO3)	130	mg/L			1	EPA 310.1	02/26/98	0815	AP
Hardness (CaCO3)	106	mg/L			1	Calculation	03/04/98	1440	JG
Major Anions									
Bicarbonate (HCO3)	159	mg/L	2.60	meq/L	1	EPA 310.1	02/26/98	0815	AP
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	02/26/98	0815	AP
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	02/26/98	0815	AP
Chloride	122	mg/L	3.44	meq/L	1	EPA 300.0	02/20/98	1545	AP
Nitrogen - Nitrate/Nitrit	0.87	mg/L	0.03	meq/L	0.05	EPA 353.2	02/27/98	1000	SH
Sulfate	99	mg/L	2.06	meq/L	5	EPA 300.0	02/20/98	1545	AP
Major Cations									
Calcium	34.9	mg/L	1.74	meq/L	0.2	EPA 200.7	02/25/98	1030	ST
Magnesium	4.4	mg/L	0.37	meq/L	0.2	EPA 200.7	02/25/98	1030	ST
Potassium	9.1	mg/L	0.23	meq/L	0.2	EPA 200.7	02/25/98	1030	ST
Sodium	139	mg/L	6.04	meq/L	0.2	EPA 200.7	02/25/98	1030	ST
Cation / Anion Balance QC Information									
Anion Sum			8.09	meq/L	0.01	Calculation	03/04/98	1440	JG
Cation Sum			8.38	meq/L	0.01	Calculation	03/04/98	1440	JG
Cation/Anion Balance			1.76	%	0.01	Calculation	03/04/98	1440	JG

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.
EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/100 August, 1983.

Reviewed By: _____

John Green, Water Lab Supervisor

Inter-Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8260
VOLATILE ORGANIC COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Four Corner Drilling
Project ID: 4 Corner Drilling
Lab ID: B980826 03-0694
Matrix: Water

Date Reported: 02/27/98
Date Sampled: 02/20/98
Date Received: 02/24/98
Date Extracted: 02/25/98
Date Analyzed: 02/25/98

Parameter	Result	PQL	Units
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,2-Dibromoethane (EDB)	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
Bromomethane	ND	5.0	ug/L
Carbon Tetrachloride	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	3 J	5.0	ug/L
Chloromethane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
Methylene chloride	1700 D1	20	ug/L
Tetrachloroethene (PCE)	3 J	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene (TCE)	ND	5.0	ug/L
Vinyl Chloride	ND	5.0	ug/L

Continued

Inter·Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8260
VOLATILE ORGANIC COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Four Corner Drilling
Project ID: 4 Corner Drilling
Lab ID: B980826 03-0694
Matrix: Water

Date Reported: 02/27/98
Date Sampled: 02/20/98
Date Received: 02/24/98
Date Extracted: 02/25/98
Date Analyzed: 02/25/98

Parameter	Result	PQL	Units

Continued

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
1,2-Dichloroethane-d4	93	80 - 120
Bromofluorobenzene	101	86 - 115
Toluene-d8	99	88 - 110

ND - Not Detected at Practical Quantitation Level (PQL)
J - Meets identification criteria, approximate quantitation.
D1 - Dilution factor of 25 for quantitation.

Reference: Method 8260A Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, Final Update II, United States Environmental Protection Agency, September 1994.

Analyst E.D.

Reviewed

Inter·Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC
EPA METHOD 8260
METHOD BLANK

Date Analyzed: **02/25/98**
Lab ID: MBW98057
Matrix: Water
Date Extracted: 02/25/98

Parameter	Result	PQL	Units
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,2-Dibromoethane (EDB)	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
Bromomethane	ND	5.0	ug/L
Carbon Tetrachloride	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
Methylene chloride	ND	20	ug/L
Tetrachloroethene (PCE)	ND	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene (TCE)	ND	5.0	ug/L
Vinyl Chloride	ND	5.0	ug/L

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
1,2-Dichloroethane-d4	89	80 - 120
Bromofluorobenzene	107	86 - 115
Toluene-d8	99	88 - 110

Continued

Inter-Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC
EPA METHOD 8260
METHOD BLANK

Date Analyzed: 02/25/98
Lab ID: MBW98057
Matrix: Water
Date Extracted: 02/25/98

Parameter	Result	PQL	Units

Continued

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst E.D.

Reviewed

Inter·Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC

EPA METHOD 8260
BLANK SPIKE / BLANK SPIKE DUPLICATE SUMMARY

Date Analyzed: **02/25/98**
Lab ID: BSW98057
Matrix: Water
Date Extracted: 02/25/98

Original Sample Parameters

Parameter	Spike Added (ug/L)	Sample Result (ug/L)	Spike Result (ug/L)	BS Recovery %	QC Limits Rec.
1,1-Dichloroethene	50	0	50	100	75 - 145
Benzene	50	0	52	104	71 - 120
Chlorobenzene	50	0	51	102	76 - 127
Toluene	50	0	51	102	71 - 127
Trichloroethene (TCE)	50	0	51	102	75 - 130

Duplicate Sample Parameters

Parameter	Spike Added (ug/L)	BSD Result (ug/L)	BSD Recovery %	RPD %	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	55	110	10	14	75 - 145
Benzene	50	51	102	2	14	71 - 120
Chlorobenzene	50	54	108	6	11	76 - 127
Toluene	50	52	104	2	13	71 - 127
Trichloroethene (TCE)	50	51	102	0	13	75 - 130

Note: Spike Recoveries are calculated using zero for Sample result if Sample result was less than PQL (Practical Quantitation Level).

Spike Recovery: 0 out of 10 outside QC limits.
RPD: 0 out of 5 outside QC limits.

Analyst E.P.

Reviewed

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Duplicate Analysis

Lab ID: 0398G00698
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 03/04/98
Date Analyzed: 02/25/98

Target Analyte	Duplicate Concentration (ppb)	Original Concentration (ppb)	% Difference
Benzene	10.8	10.3	4.7
Toluene	21.8	22	0.9
Chlorobenzene	0.56	0.58	3.5
Ethylbenzene	ND	ND	NA
m,p-Xylenes	6.3	6.5	3.1
o-Xylene	5.3	5.2	1.5
1,3-Dichlorobenzene	0.3	0.27	10.5
1,4-Dichlorobenzene	ND	ND	NA
1,2-Dichlorobenzene	ND	ND	NA

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	101%	70 -130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst

Review

200

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

QUALITY CONTROL/QUALITY ASSURANCE
VOLATILE AROMATIC HYDROCARBONS

BLANK SPIKE ANALYSIS

Lab ID: Method Blank
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 03/04/98
Date Analyzed: 02/25/98

Target Analyte	Blank Spike Concentration (ppb)	Method Blank Concentration (ppb)	Spike Added (ppb)	% Recovery	Acceptance Limits (%)
Benzene	7.50	ND	10.0	75%	70-130
Toluene	9.00	ND	10.0	90%	70-130
Ethylbenzene	9.40	ND	10.0	94%	70-130
m,p-Xylenes	18.50	ND	20.0	93%	70-130
o-Xylene	9.20	ND	10.0	92%	70-130

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	98%	70 -130%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

QUALITY CONTROL/QUALITY ASSURANCE
QUALITY CONTROL REPORT

METHOD BLANK ANALYSIS

Sample Matrix: Water
Lab ID: Method Blank

Report Date: 03/04/98
Date Analyzed: 02/25/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	ND	0.2
o-Xylene	ND	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	85%	70-130%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

QUALITY CONTROL/QUALITY ASSURANCE

VOLATILE AROMATIC HYDROCARBONS

KNOWN ANALYSIS

Client: Sunco Trucking
Project: Four Courner Drilling

Date Reported: 03/04/98
Date Analyzed: 02/25/98

Parameter	Found Result (ppb)	Known Result (ppb)	Percent Recovery	Acceptance Limits
Benzene	8.8	10.0	88%	70 - 130%
Toluene	9.6	10.0	96%	70 - 130%
Ethylbenzene	9.8	10.0	98%	70 - 130%
m+p - Xylene	19.1	20.0	96%	70 - 130%
o - Xylene	9.5	10.0	95%	70 - 130%

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	96%	75-125%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst _____ Reviewed by _____

Inter-Mountain Laboratories, In

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Spike Analysis / Blank Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	Sunco Trucking	Date Reported:	03/02/98
Project:	Four Corners Drilling	Date Analyzed:	02/29/98
Sample Matrix:	Water/Sludge	Date Received:	02/20/98

Spike Analysis

Parameter	Spike Result (mg/L)	Sample Result (mg/L)	Spike Added (mg/L)	Percent Recovery
Arsenic	0.024	<0.005	0.025	96%
Barium	1.02	0.13	1.00	89%
Cadmium	0.750	<0.004	1.000	75%*
Chromium	0.82	<0.01	1.00	82%*
Lead	0.64	<0.05	1.00	64%*
Mercury	0.006	<0.001	0.005	110%
Selenium	0.022	<0.005	0.025	88%
Silver	0.05	<0.01	0.05	104%

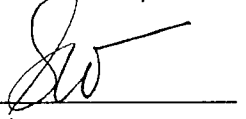
Method Blank Analysis

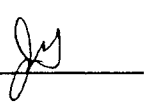
Parameter	Result	Detection Limit	Units
Arsenic	ND	0.005	mg/L
Barium	ND	0.01	mg/L
Cadmium	ND	0.004	mg/L
Chromium	ND	0.01	mg/L
Lead	ND	0.05	mg/L
Mercury	ND	0.001	mg/L
Selenium	ND	0.005	mg/L
Silver	ND	0.01	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments: *Spike recovery failed to meet established QC limits due to matrix interferences.

Reported by 

Reviewed by 

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	**Sunco Trucking**	Date Reported:	03/04/98
Project:	Four Corners Drilling	Date Analyzed:	02/29/98
Sample Matrix:	Water/Sludge	Date Received:	02/20/98

Known Analysis

Parameter	Found Result	Known Result	Percent Recovery	Units
Arsenic	0.009	0.010	**90%**	mg/L
Barium	0.97	1.00	**97%**	mg/L
Cadmium	0.99	1.000	**99%**	mg/L
Chromium	0.96	1.00	**96%**	mg/L
Lead	0.99	1.00	**99%**	mg/L
Mercury	0.004	0.004	**100%**	mg/L
Selenium	0.010	0.010	**100%**	mg/L
Silver	4.39	4.00	**110%**	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported by _____ Reviewed by _____

Roger Anderson

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAR 11 1998
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/9

Submit Origina
Plus 1 Cop
to appropriat
District Offic

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Plant Ponds
2. Management Facility Destination Sunco Disposal	6. Transporter Sunco
3. Address of Facility Operator CR 3500 #345 Aztec, NM	8. State NM
7. Location of Material (Street Address or ULSTR) Milagro Plant	

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:

Waste water from evaporation ponds contains: ~~storm~~ water with amounts of amine and glycol

RECEIVED
MAR - 6 1998
OIL CON. DIV.
DIST. 3

Hauled under this TCLP previously

Estimated Volume 2500 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Harrell (Waste Management Facility Authorized Agent) TITLE: Manager DATE: 3-3-98

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. 505-334-6182

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/5/98

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 3/11/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/9

Submit Origina
Plus 1 Cop
to appropriat
District Offic

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Plant Ponds
2. Management Facility Destination Sunco Disposal	6. Transporter Sunco
3. Address of Facility Operator CR 3500 #345 Aztec, NM	8. State NM
7. Location of Material (Street Address or ULSTR) Milagro Plant	

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:

Waste water from evaporation ponds contains: storm water with amounts of amine and glycol

RECEIVED
MAR - 4 1998
OIL CON. DIV.
DIST. 3

Hauled under this TCLP Previously

Estimated Volume 2500 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Tafoya TITLE: Manager DATE: 3-3-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Michael Tafoya TELEPHONE NO. 505-334-6187

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/5/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
WILLIAM FIELD SERVICES 295 CHIPETA WAY SALT LAKE CITY UT 84158	SUNCO DISPOSAL
3. Originating Site (name): MILAGRO PLANT Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** 192 CR 4900 BLOOMFIELD NM 87413
4. Source and Description of Waste WASTE WATER FROM EVAPORATION PONDS A NATURAL GAS BREATHMENT PLANT	

I, GERALD SMITH (Print Name) representative for:

WILLIAMS FIELD SERVICES 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 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 only the following documentation is attached (check appropriate items):

___ MSDS Information
✓ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): G K Smith

Title: PLANT SUPT.

Date: 3/3/98

Q.W.A.L. LABORATORIES, INC.

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: FAX 1-316-232-7730 OR PHONE 1-316-232-1870

(1) Company Name: Williams Field Services
Attention: Ingrid Deklau
(4) Phone #: 801-584-6543
Address: 295 Chipeta Way (2G1)
Salt Lake City, Ut. 84158
City, State, Zip Code
(4) Fax #: 801-584-7760

(13) TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☐ Standard ☐ 72 Hours ☒ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

(2) Project Name or Number: Milagro Evap PONds
(5) Purchase Order #:

(3) Sampling Personnel Signature(s)
Sampling Personnel (print name): Windy Preston

(17) ANALYSIS REQUEST
(Write Tests Here)

(6) Sample I.D.	Date (7)	Time (7)	(8) Comp.	(8) Grab	(9) # of Containers	(10) Method Preserved: H2SO4	HNO3	NAOH	HCL	Ice	None	(11) Sample Matrix: Water	Soil	Sludge	Other	RCRA METALS	REMARKS (If special detection limits are required please note below.)
NORTH POND	9/26			✓	1											X	Preserve on Site FOR EACH CONTAINER
SOUTH POND	9/27			✓	1					✓						X	
WEST POND	9/27			✓	1					✓						X	

(14) Relinquished By: Windy Preston Date 9/27 Time 10:30
Received By: Date Time
Relinquished By: Date Time
Received By: Date Time
Relinquished By: Date Time
Received By: Date Time

(15) Send Report to:
Company: Williams Field Services
Attn: Ingrid Deklau
Address: 295 Chipeta Way (2G1)
City/State: Salt Lake City, UT 84158
Phone: 801-584-6543
Fax: 801-584-7760

(16) Send Invoice to:
(if different form report address)
Company:
Attn:
Address:
City/State:
Phone:
Fax:

*FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS.

10-OCT 06 '97 12:36PM W.S. FIELD SVCS. 316 232 7 P.6/17 P.4

Q.W.A.L. LABORATORIES, INC.

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: FAX 1-316-232-7730 OR PHONE 1-316-232-1970

1995

10-OCT 06 '97 12:36PM WI FIELD SVCS TRIES 316 232 7 P.7/7 P.5

(1) Company Name: WILLIAMS FIELD SERVICES
(4) Phone #: 801-584-6543
Attention: INGRID DEKLAU
Address: 295 CHIPETA WAY #269
(4) Fax #: 801-584-7760
City, State, Zip Code: SALT LAKE City, Ut 84158

(13) TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☐ Standard ☐ 72 Hours ☒ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

(2) Project Name or Number: MIDAGRO EVAP PONDS
(5) Purchase Order #:

(3) Sampling Personnel Signature(s): Windy Preston
Sampling Personnel (print name): WINDY PRESTON

(11) ANALYSIS REQUEST (Write Tests Here)

(6) Sample I.D.	Date (7)	Time (7)	(8) Comp.	(8) Grab	(9) # of Containers	(10) Method Preserved: H2SO4	HNO3	NAOH	HCL	Ice	None	(12) Sample Matrix: Water	Soil	Air	Sludge	Other	Volatiles (8260)	Semi Volatiles (8270)	RCRA Metals	REMARKS
NORTH POND	9/30			✓	2				✓	✓		✓					X			
SOUTH POND	9/30			✓	2				✓	✓		✓					X			
WEST POND	9/30			✓	2				✓	✓		✓					X			
NORTH POND	9/30				1					✓							X	X		
SOUTH POND	9/30				1					✓							X	X		
WEST POND	9/30				1					✓							X	X		

(14) Relinquished By: Windy Preston 9/30/97 2:20pm
Received By: [illegible] Date 10-1-97 Time 1:00
Relinquished By: Date Time
Received By: Date Time
Relinquished By: Date Time
Received By: Date Time

(15) Send Report to:
Company: WILLIAMS FIELD SERVICES
Attn: INGRID DEKLAU
Address: 295 CHIPETA WAY
City/State: SALT LAKE CITY/UT
Phone: 801 584 6543
Fax: 801 584 7760

(16) Send Invoice to:
(If different form report address)
Company:
Attn:
Address:
City/State:
Phone:
Fax:

*FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS.

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: REFERENCE #: 9710022

SENT WILLIAMS FIELD SERVICES
TO: 295 CHIPETA WAY, 201
SALT LAKE CITY, UT 84158
INGRID DEKLAU

DATE REPORTED: 10/03/97
DATE COLLECTED: 09/30/97
DATE RECEIVED: 10/01/97
P.O. #:

PROJECT:MILAGRO EVAP PONDS

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.100	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	21.0	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MS2	
LEAD, TOTAL	SW 846 6010	0.51	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.05	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	100	10/02/97DN	10/01/97
ACENAPHTHYLENE	208-96-8	ND	UG/L	100	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	100	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	500	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	100	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	500	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	100	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	200	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	100	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	100	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	100	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	200	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	200	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	100	10/02/97DN	10/01/97
2-CHLOROPHENOL	95-57-8	ND	UG/L	100	10/02/97DN	10/01/97
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	100	10/02/97DN	10/01/97
CHRYSENE	218-01-9	ND	UG/L	100	10/02/97DN	10/01/97
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	100	10/02/97DN	10/01/97
DIBENZOFURAN	132-64-9	ND	UG/L	100	10/02/97DN	10/01/97
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	100	10/02/97DN	10/01/97

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTED
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	100	10/02/97DN	10/01/97
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	100	10/02/97DN	10/01/97
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	200	10/02/97DN	10/01/97
2,4-DICHLOROPHENOL	120-83-2	ND	UG/L	100	10/02/97DN	10/01/97
DIETHYL PHTHALATE	84-66-2	ND	UG/L	100	10/02/97DN	10/01/97
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	100	10/02/97DN	10/01/97
DIMETHYLPHTHALATE	131-11-3	ND	UG/L	100	10/02/97DN	10/01/97
ISOPHORONE	78-59-1	ND	UG/L	100	10/02/97DN	10/01/97
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	100	10/02/97DN	10/01/97
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	500	10/02/97DN	10/01/97
2,4-DINITROPHENOL	51-28-5	ND	UG/L	500	10/02/97DN	10/01/97
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	100	10/02/97DN	10/01/97
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	100	10/02/97DN	10/01/97
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	100	10/02/97DN	10/01/97
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	100	10/02/97DN	10/01/97
FLUORANTHENE	206-44-0	ND	UG/L	100	10/02/97DN	10/01/97
FLUORENE	86-73-7	ND	UG/L	100	10/02/97DN	10/01/97
HEXACHLOROBENZENE	118-74-1	ND	UG/L	100	10/02/97DN	10/01/97
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	100	10/02/97DN	10/01/97
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	100	10/02/97DN	10/01/97
HEXACHLOROETHANE	67-72-1	ND	UG/L	100	10/02/97DN	10/01/97
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	100	10/02/97DN	10/01/97
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	100	10/02/97DN	10/01/97
2-METHYLPHENOL	95-48-7	ND	UG/L	100	10/02/97DN	10/01/97
4-METHYLPHENOL	106-44-5	ND	UG/L	100	10/02/97DN	10/01/97
NAPHTHALENE	91-20-3	ND	UG/L	100	10/02/97DN	10/01/97
2-NITROANILINE	88-74-4	ND	UG/L	500	10/02/97DN	10/01/97
3-NITROANILINE	99-09-2	ND	UG/L	500	10/02/97DN	10/01/97
4-NITROANILINE	100-01-6	ND	UG/L	500	10/02/97DN	10/01/97
NITROBENZENE	98-95-3	ND	UG/L	100	10/02/97DN	10/01/97
2-NITROPHENOL	88-75-5	ND	UG/L	500	10/02/97DN	10/01/97
4-NITROPHENOL	100-02-7	ND	UG/L	500	10/02/97DN	10/01/97
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	100	10/02/97DN	10/01/97
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	100	10/02/97DN	10/01/97
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	100	10/02/97DN	10/01/97
PENTACHLOROPHENOL	87-86-5	ND	UG/L	500	10/02/97DN	10/01/97
PHENANTHRENE	85-01-8	ND	UG/L	100	10/02/97DN	10/01/97
PHENOL	108-95-2	ND	UG/L	100	10/02/97DN	10/01/97
PYRENE	129-00-0	ND	UG/L	100	10/02/97DN	10/01/97
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	100	10/02/97DN	10/01/97
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	100	10/02/97DN	10/01/97
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	100	10/02/97DN	10/01/97
2-FLUOROBIPHENYL (SUR)	-	44.7	150	10		10/01/97
NITROBENZENE-D8 (SUR)	-	37.9	150	10		10/01/97
2-FLUOROPHENOL (SUR)	-	26.0	150	10		10/01/97
2,4,6-TRIBROMOPHENOL (SUR)	-	23.7	150	10		10/01/97
TERPHENYL-D14 (SUR)	-	69.3	150	10		10/01/97
PHENOL-D5 (SUR)	-	12.0	150	10		10/01/97

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-38-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOMETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-69-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EG	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EG	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EG	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EG	

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EG	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EG	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EG	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EG	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EG	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EG	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE-D4	-	105	125	75		
TOLUENE-d8	-	98	125	75		
4-BROMOFLUOROBENZENE	-	89	125	75		

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.080	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	32.1	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97M32	
LEAD, TOTAL	SW 846 6010	0.95	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.05	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
ACENAPHTHYLENE	208-96-8	ND	UG/L	1000	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	1000	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	1000	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	2000	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	2000	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	2000	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTED
2-CHLOROPHENOL	95-57-8	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	1000	10/02/97DN	10/01/97
CHRYSENE	218-01-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZOFURAN	132-64-9	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	1000	10/02/97DN	10/01/97
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	2000	10/02/97DN	10/01/97
2,4-DICHLOROPHENOL	120-83-2	ND	UG/L	1000	10/02/97DN	10/01/97
DIETHYL PHTHALATE	84-66-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIMETHYLPHTHALATE	131-11-3	ND	UG/L	1000	10/02/97DN	10/01/97
ISOPHORONE	78-59-1	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	1000	10/02/97DN	10/01/97
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROPHENOL	51-28-5	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORANTHENE	206-44-0	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORENE	86-73-7	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBENZENE	118-74-1	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROETHANE	67-72-1	ND	UG/L	1000	10/02/97DN	10/01/97
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLPHENOL	95-48-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-METHYLPHENOL	106-44-5	ND	UG/L	1000	10/02/97DN	10/01/97
NAPHTHALENE	91-20-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROANILINE	88-74-4	ND	UG/L	5000	10/02/97DN	10/01/97
3-NITROANILINE	99-09-2	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROANILINE	100-01-6	ND	UG/L	5000	10/02/97DN	10/01/97
NITROBENZENE	98-95-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROPHENOL	88-75-5	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROPHENOL	100-02-7	ND	UG/L	5000	10/02/97DN	10/01/97
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	1000	10/02/97DN	10/01/97
PENTACHLOROPHENOL	87-86-5	ND	UG/L	5000	10/02/97DN	10/01/97
PHENANTHRENE	85-01-8	ND	UG/L	1000	10/02/97DN	10/01/97
PHENOL	108-95-2	ND	UG/L	1000	10/02/97DN	10/01/97
PYRENE	129-00-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
2-FLUOROBIPHENYL (SUR)	-	42.7	150	10		10/01/97
NITROBENZENE-D8 (SUR)	-	42.6	150	10		10/01/97
2-FLUOROPHENOL (SUR)	-	2.80 Q	150	10		10/01/97
2,4,6-TRIBROMOPHENOL (SUR)	-	23.7	150	10		10/01/97
TERPHENYL-D14 (SUR)	-	58.7	150	10		10/01/97
PHENOL-D5 (SUR)	-	0 Q	150	10		10/01/97
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-48-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-59-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EC	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EC	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EC	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EC	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EC	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EC	
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EC	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EC	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EC	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EC	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EC	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EC	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EC	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EC	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EC	
1,2-DICHLOROETHANE-D4	-	99	125	75		
TOLUENE-D8	-	97	125	75		
4-BROMOFLUOROBENZENE	-	82	125	75		

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.030	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	75.5	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MS2	
LEAD, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.005	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
ACENAPETHYLENE	208-96-8	ND	UG/L	1000	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	1000	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	1000	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	2000	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	2000	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	2000	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	1000	10/02/97DN	10/01/97
2-CHLOROPHENOL	95-57-8	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	1000	10/02/97DN	10/01/97
CHRYSENE	218-01-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZOFURAN	132-64-9	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	1000	10/02/97DN	10/01/97
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	2000	10/02/97DN	10/01/97
2,4-DICHLOROPHENOL	120-83-2	ND	UG/L	1000	10/02/97DN	10/01/97
DIETHYL PHTHALATE	84-66-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIMETHYLPHATHALATE	131-11-3	ND	UG/L	1000	10/02/97DN	10/01/97
ISOPHORONE	78-59-1	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	1000	10/02/97DN	10/01/97
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROPHENOL	51-28-5	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORANTHENE	206-44-0	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORENE	86-73-7	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBENZENE	118-74-1	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROETHANE	67-72-1	ND	UG/L	1000	10/02/97DN	10/01/97
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLPHENOL	95-48-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-METHYLPHENOL	106-44-5	ND	UG/L	1000	10/02/97DN	10/01/97
NAPETHALENE	91-20-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROANILINE	88-74-4	ND	UG/L	5000	10/02/97DN	10/01/97
3-NITROANILINE	99-09-2	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROANILINE	100-01-6	ND	UG/L	5000	10/02/97DN	10/01/97
NITROBENZENE	98-95-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROPHENOL	88-75-5	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROPHENOL	100-02-7	ND	UG/L	5000	10/02/97DN	10/01/97
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	1000	10/02/97DN	10/01/97
PENTACHLOROPHENOL	87-86-5	ND	UG/L	5000	10/02/97DN	10/01/97

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
PHENANTHRENE	85-01-8	ND	UG/L	1000	10/02/97DN	10/01/97
PHENOL	108-95-2	ND	UG/L	1000	10/02/97DN	10/01/97
PYRENE	129-00-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	1000	10/02/97DN	10/01/97
2-FLUOROBIPHENYL (SUR)	-	47.5	150	10		10/01/97
NITROBENZENE-D5 (SUR)	-	50.8	150	10		10/01/97
2-FLUOROPHENOL (SUR)	-	0 Q	150	10		10/01/97
2,4,6-TRIBROMOPHENOL (SUR)	-	25.4	150	10		10/01/97
TERPHENYL-D14 (SUR)	-	61.7	150	10		10/01/97
PHENOL-D5 (SUR)	-	1.10 Q	150	10		10/01/97
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-48-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOMETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-59-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-4	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EG	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EG	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EG	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EG	
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EG	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EG	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EG	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EG	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EG	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EG	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE-D4	-	101	125	75		
TOLUENE-d8	-	96	125	75		
4-BROMOFLUOROBENZENE	-	83	125	75		

ND=NONE DETECTED
DL=DETECTION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SUR=SURROGATE

APPROVED BY: Terry Koestes

TERRY KOESTER
LABORATORY DIRECTOR

REFERENCE #: 9710022 PAGE: 10

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-136
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ]	4. Generator WFS
Verbal Approval Received: Yes [ ] No [X]	5. Originating Site EL CEDRO
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) EL CEDRO COMPLEX HWY 64 MM. 100.5 BLANCO NM	

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:

AMINE TREATING FLUID 95% RAINWATER, 2.5% AMINE, 2.5% TREATING TEG

RECEIVED
FEB 17 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 160 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] TITLE: MANAGER DATE: 2-17-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2-17-98

APPROVED BY: Johnny Robinson TITLE: Field Rep II DATE: 2-17-98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Williams Field Service El Cedro Complex Hwy 64 Mile Marker 100.5 Blanco, N.M. 87412	Sun Co Disposal
3. Originating Site (name): El-Cedro Complex Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Amine Treating: 95% Rain Water 2.5% Amine 2.5% Treating TEG	

I, Bill Hargis (Print Name) representative for:

Williams field Service 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)

X **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 only the following documentation is attached (check appropriate items):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Bill Hargis

Title: lead operator

Date: 2/16/98

District I - (505) 393-6161
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Hobbs, NM 88241-1980
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811 S. First
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1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ]	4. Generator WAS
Verbal Approval Received: Yes [ ] No [X]	5. Originating Site ELCEDRO
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 AZTEC, N.M.	8. State N.M.
7. Location of Material (Street Address or ULSTR) ELCEDRO PLANT SIDE	

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:
RAW WATER MIXED WITH AMINE AND TREATING TEG

RECEIVED
JAN 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 250bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: MANAGER DATE: 1-16-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/18/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/23/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Williams Field Service **El Cedro Complex** **Hwy 64 Mile Marker 100.5** **Blanco, N.M. 87412**	SunCo disposal
3. Originating Site (name): El-Cedro Complex Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Amine Treating - 95% RAIN water - 2.5% Amine - 2.5% Treating TEG	

I, Bill HARGis (Print Name) representative for:

Williams field Service 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)

X **EXEMPT** oilfield waste
Plant Side

___ **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 only the following documentation is attached (check appropriate items):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Bill Hargis

Title: LEAD Operator

Date: 1/15/98

Roger Anderson

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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1 Rio Brazos Road
[illegible], NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
JAN 12 1998
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Buelington
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site VALVERDE PLANT
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 Aztec, NM	8. State NM
7. Location of Material (Street Address or ULSTR) sec 14, T29N, R11W	

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:

Spent wash water from gas plant equipment

RECEIVED
JAN - 7 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] TITLE: Disposal Manager DATE: 1-7-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: [signature] TITLE: Geologist DATE: 1/7/98

APPROVED BY: [signature] TITLE: Env. Geologist DATE: 1/13/98

225

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P. O. Box 1980
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New Mexico
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Oil Conservation Division
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Originated 8/8/95

Submit Original
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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Buelington
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Val Verde Plant
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 Aztec, NM	8. State NM
7. Location of Material (Street Address or ULSTR) sec 14, T29N, R11W	

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:

Spent wash water from gas plant equipment

RECEIVED
JAN - 7 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: Disposal Manager DATE: 1-7-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/7/98

APPROVED BY: _____ TITLE: _____ DATE: _____

s:\2-envnmt\wastemgt\vv-nmfst.doc

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BURLINGTON RESOURCES 3535 EAST 30th STREET FARMINGTON, NM 87402	Sunco Disposal
3. Originating Site (name): Val Verde Plant Attach list of originating sites as appropriate.	Location of the Waste (Street address &/or ULSTR): Section 14, Township 29N, Range 11W
4. Source and Description of Waste: Spent wash water from cleaning plate and frame exchangers and amine reboilers at Val Verde Plant.	

I, Ed Hasely representative for:

BURLINGTON RESOURCES 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	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 only the following documentation is attached (check appropriate items):

MSDS Information	Other (description):
X RCRA Hazardous Waste Analysis	There has been no change in the subject waste stream at the facility since the 3/5/97 sample.
X Chain of Custody	

Name (Original Signature): Ed Hasely

Title: SR STAFF ENVIRONMENTAL REPRESENTATIVE

Date: 1/6/98

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ANALYTICAL
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3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
March 12, 1997 14:42

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CONTRACT ENVIRONMENTAL SERV
PO BOX 3376
FARMINGTON, NM 87499

ATTN: SHAWN ADAMS

WORKORDER # : 9703041
WORK ID : MOI-VAL VERDE
CLIENT CODE : CONT01
DATE RECEIVED : 03/06/97

Lab ID: 9703041-01A
Sample ID: VALV-100
Collected: 03/05/97 12:00:00
Matrix: LIQUID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
FLASH POINT/SW846 1010						
Flash Point	>60	Deg Centigrade	20	1.0	03/10/97	WFLASH204
REACTIVITY/SW846 7-3						
Sulfide	NON-REACT	mg/Kg of Waste	500	1.0	03/11/97	W97114
Cyanide	NON-REACT	mg/Kg of Waste	250	1.0	03/11/97	W97114

Lab ID: 9703041-01B
Sample ID: VALV-101
Collected: 03/05/97 12:00:00
Matrix: LIQUID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
CORROS(NACE)/SW846 1110						
Corrosivity (NACE)	ND	mm/yr	6.0	1.0	03/07/97	WNACE035

Lab ID: 9703041-01C
Sample ID: VALV-102/103
Collected: 03/05/97 12:00:00
Matrix: LIQUID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP SV/METHOD 1311/8270B						
1,4-Dichlorobenzene	ND	mg/L	0.0010	290	03/08/97	TSVOA186
2-Methylphenol / O-Cresol	ND	mg/L	0.0010	290	03/08/97	TSVOA186
3/4-Methylphenol / M/P-Cresol	ND	mg/L	0.0010	290	03/08/97	TSVOA186
Hexachloroethane	ND	mg/L	0.0010	290	03/08/97	TSVOA186
Nitrobenzene	ND	mg/L	0.0010	290	03/08/97	TSVOA186
Hexachlorobutadiene	ND	mg/L	0.0010	290	03/08/97	TSVOA186
2,4,6-Trichlorophenol	ND	mg/L	0.010	290	03/08/97	TSVOA186
2,4,5-Trichlorophenol	ND	mg/L	0.010	290	03/08/97	TSVOA186
2,4-Dinitrotoluene	ND	mg/L	0.010	290	03/08/97	TSVOA186
Hexachlorobenzene	ND	mg/L	0.0010	290	03/08/97	TSVOA186
Pentachlorophenol	ND	mg/L	0.020	290	03/08/97	TSVOA186
Pyridine	ND	mg/L	0.010	290	03/08/97	TSVOA186
TCLP SVOA XT/1311/3520	03/07/97	N/A				

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Lab ID: 9703041-01D
Sample ID: VALV-104
Collected: 03/05/97 12:00:00
Matrix: LIQUID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
pH/EPA 150.1						
pH	8.7	pH Units	0.10	1.0	03/07/97	WPH479

Lab ID: 9703041-01E
Sample ID: VALV-105
Collected: 03/05/97 12:00:00
Matrix: LIQUID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	1.00	% (Percent)				
TCLP (ICP) DIG/1311/3005	03/09/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/06/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/10/97	M97180,97178
Barium, Ba	ND	mg/L	0.50	1.0	03/10/97	M97180,97178
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/10/97	M97180,97178
Chromium, Cr	ND	mg/L	0.020	1.0	03/10/97	M97180,97178
Lead, Pb	ND	mg/L	0.050	1.0	03/10/97	M97180,97178
Mercury, Hg	ND	mg/L	0.0020	1.0	03/11/97	M97180,97178
Selenium, Se	ND	mg/L	0.050	1.0	03/10/97	M97180,97178
Silver, Ag	ND	mg/L	0.040	1.0	03/10/97	M97180,97178
TCLP(CVAA)Hg XT/SW846 7471	03/10/97	N/A				

Lab ID: 9703041-01F
Sample ID: VALV-106/107 A/B
Collected: 03/05/97 12:00:00
Matrix: LIQUID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP ZHE / TCLP 1311	03/06/97	N/A				
ZHE/VOA/METHOD 1311/8240B						
Vinyl Chloride	ND	mg/L	0.0050	5.0	03/07/97	TVOA278
1,1-Dichloroethene	ND	mg/L	0.0010	5.0	03/07/97	TVOA278
Chloroform	ND	mg/L	0.0010	5.0	03/07/97	TVOA278
1,2-Dichloroethane	ND	mg/L	0.0010	5.0	03/07/97	TVOA278
2-Butanone (MEK)	ND	mg/L	0.0050	5.0	03/07/97	TVOA278
Carbon Tetrachloride	ND	mg/L	0.0010	5.0	03/07/97	TVOA278
Trichloroethene	ND	mg/L	0.0010	5.0	03/07/97	TVOA278
Benzene	ND	mg/L	0.0010	5.0	03/07/97	TVOA278
Tetrachloroethene	ND	mg/L	0.0010	5.0	03/07/97	TVOA278
Chlorobenzene	ND	mg/L	0.0010	5.0	03/07/97	TVOA278

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 03/12/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND =	Analyte "not detected" in analysis at the sample specific detection limit.
D_F =	Sample "dilution factor"
NT =	Analyte "not tested" per client request.
B =	Analyte was also detected in laboratory method QC blank.
E =	Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT =	The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided for analysis and may not represent actual field conditions. ***

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REPORT COMMENTS

SAMPLE RECEIPT CHECKLIST AND NONCONFORMANCE REPORT

WO#: 97-03-041
DATE RCVD: 3·6·97
RCVD BY: GM
NONCONFORM.?: (Y) or N

COOLER CONDITION:

Sent via mail 4/5/97

	YES	NO	N/A
A. Was the cooler intact?	✓		
B. Freight bill received?	✓		
D. Cooler labelled properly?	✓		
C. Cooler Temperature (acceptable range 1 - 8 °C)	11.2 °C		

SAMPLE CONTAINERS

	YES	NO	N/A
A. Are all sample containers intact?	✓		
B. Are custody seals in place?	✓		
C. Are VOA samples without air bubbles or less than "pea size"?	✓		
D. Are all sample labels complete and correct?	✓		
E. Are volumes marked on bottles?		✓	
F. Is there sufficient volume request analyses?	✓		

SAMPLE/CHAIN-OF-CUSTODY INFORMATION

	YES	NO	N/A
A. Do the number of sample containers match the Chain-of-Custody (COC)?	✓		
B. Does all information on sample labels match the information on the COC?	✓		
C. Are contact names, phone and fax numbers clearly indicated on the COC?	✓		
D. Is the COC signed by all parties?	✓		
E. Field copy given to client?	✓		

NON-CONFOMRANCE SPECIFICS: Cooler temp slightly high.

If any non-conformances were identified:

Who was client contact? Talked to client - proceed w/ analysis

Non-conformance resolution: Sean Adams

AAL Employee: [signature] Date: 3/6/97

Program Management/QC Signature: [signature] Date: 3/7/97

Temperature Terms:

TERM	DEFINITION
"Cold-A"	Client brought samples in their own cooler on ice.
"Cold-B"	Samples brought in after hours. No temp taken, however, samples were on ice and immediately put into walk-in refrigerator.
"On ice"	Cooler was emptied before a temp could be taken, however, samples were on ice.

Chain of Custody Record

ASSAIGAI ANALYTICAL LABORATORIES SERVICES, INC

Lab job no.: 3641 Date 3/5/97

Page 1 of 1

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MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client CONTRACT ENVIRONMENTAL

Project Manager / Contact SHAWN ADAMS

Address PO Box 3376

Telephone No. (505) 325-1198

City / State / Zip FARMington NM 87499

Fax No. SAME (CALL)

Project Name / Number MOI - VAL VERDE

Samplers: (Signature) Shawn Adams

Contract / Purchase Order / Quote CONTRACTENV

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation** Temp.	Preservation** Chemical	No. of Containers	Analysis Required: FLASH REACT	NACE	TCLP SVOA	TCLP SVOA pH	TCLP - MT	TCLP VOA	Remarks
1A	VALV-100	3/5/97	12:00	LIQ	8 oz glass		no	1	X						Due 3/12 Composite Tank Sample
1B	VALV-101	"	"	"	2½ x 7" Plastic		no	1		+					"
1C	VALV-102	"	"	"	4 x 6" Amber		no	1			X				"
	VALV-103	"	"	"	4 x 6" Amber		no	1				X			"
1D	VALV-104	"	"	"	2 x 5¼" Plastic		no	1					X		"
1E	VALV-105	"	"	"	3¾ x 6" Plastic		no	1						X	"
1F	VALV-106 A/B	"	"	"	VOAS		no	2							"
	VALV-107 A/B	"	"	"	VOAS		no	2							"

Relinquished by: Signature Shawn Adams
Printed SHAWN ADAMS
Company CONTRACT ENV SVCS.
Reason Analyses
Date 3/5/97
Time 2:00

Received by: Signature
Printed
Company Fed-Ex
Reason

Relinquished by: Signature
Printed
Company Fed-Ex
Reason

Date 3/6/97
Time 945

Received by: Signature
Printed AAL
Company
Reason

Temp 1.2

Method of Shipment:
Shipment No.
Special Instructions:

Comments: "RUSH" 5-DAY
RESULTS DUE BY 3/13/97
Blend & Shake and analyse Liquid phase only not solid phase too!

COURIER

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☒ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

Contract Environmental Services, Inc.
Post Office Box 3376
Farmington, New Mexico 87499
Phone (505) 325-1198

March 4, 1997

Burlington Resources
Mr. Craig Bock
3535 E. 30th Street
Farmington, New Mexico 87401

RE: Written Procedure For Sampling Steel Tank, Spent Scale Cleaning Solution, Val Verde Plant, Bloomfield, New Mexico

Dear Mr. Bock,

Contract Environmental Services, Inc. (CES) is pleased to present this sampling procedure for the above described site to Burlington Resources (BR). Sampling will be broken down into two (2) parts. Part one (1) will be sampling the liquid and part two (2) will be sampling the bottom sludge (if any).

Part 1 - Top to bottom liquid samples will be obtained using a 3/4" PVC sample tube. The PVC will be lowered into the fluid until the bottom is encountered. A rubber stopper will be inserted into the exposed end just above the liquid level. The PVC sampler will be extracted and the contents placed in a stainless steel canister for mixing. A total of three (3) liquid samples will be taken for compositing.

Part 2 - The bottom sludge (if any) will be sampled using a PVC sample tube with an eight (8) ounce glass sample jar secured with zip ties at one end. If sludge is encountered, a sample will be gathered from the center and each side. The three (3) sludge samples will be added to the same stainless steel canister to be composited with the liquid previously obtained.

The liquid and solids will be thoroughly mixed and samples for laboratory analysis will be gathered from the stainless steel container.

Samples will be adequately preserved as directed by the lab and carefully packaged for shipping to Assaigai Laboratory of Albuquerque for analyses. Chain-of-custody records will accompany the sample from the time they are gathered until the analyses are completed at the laboratory. The lab has been informed of our request for "Rush" analyses and have scheduled the work prior to receiving the samples. They have committed to a five (5) working day turn-around-time. Assaigai will receive the samples on Thursday morning by 10:00 am to begin the analyses. We should expect results on or before Thursday, March 13th, 1997.

All sampling equipment will be wiped down on site and either decontaminated or properly disposed of.

Contract Environmental Services, Inc. appreciates this opportunity to submit this sampling procedure to Burlington Resources and looks forward to serving your firm on this and other projects in the near future.

Sincerely,

Shawn A. Adams
Contract Environmental Services, Inc.

CONTRACT ENVIRONMENTAL SERVICES, INC.

SHAWN ADAMS
Owner

Post Office Box 3376
Farmington, New Mexico 87499 (505) 325-1198
Mobile 860-3107 E-Mail 102565.1606@compuserve.com

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

JAN - 5 1998
OIL CONSERVATION DIVISION

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BIGA WELL SER. / CORTEZ
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site CORTEZ YARD SUMP
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR 3000 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) 5725 160/666 CORTEZ COLO. 81321	

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:

WASH WATER USED TO CLEAN OIL FIELD SERVICE COMPANY EQUIPMENT

RECEIVED
JAN - 2 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 350 bbls cy. Known Volume (to be entered by the operator at the end of the haul) _____ cy.

SIGNATURE: Michael Talovich TITLE: Disposal Mgr DATE: 1-2-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/2/98

APPROVED BY: Martyn J. Wiley TITLE: Env. Geologist DATE: 1/7/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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New Mexico
Energy Minerals and Natural Resources Department
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2040 South Pacheco Street
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Form C-138
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Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BIGA WELL SER. /CORTEZ
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site CORTEZ YARD SUMP
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) 5723 160/666 CORTEZ COLO. 81321	

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:

WASH WATER USED TO CLEAN OILFIELD SERVICE COMPANY EQUIPMENT

RECEIVED
JAN - 2 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 350 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: DISPOSAL MGR DATE: 1-2-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/2/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator (Name): Address:	3. Location (Street Address &/or ULSTR):
Big A well Service Box 906 Cortez Colo. 81321	5723 160/666 Cortez Colo. 81321
2. Originating Site (Name):	4. Destination Name:
Big A Yard Cortez	Sun co-Disposal Pit 345 CR 3500 Aztec N.M. 87410

5. Source and Description of Waste Wash Water

I, Darrell Mott representative for: Big A well Service 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

X NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by production identification

For Non-exempt waste only the following documentation is attached (check appropriate items):

___ MSDS Information
X RCRA TCLP Analysis
X Chain of Custody
___ Other (Description)

Name (Signature): Darrell Mott

Printed Name: Darrell Mott

Title: Rig Superintendent

Date: 1-2-98

Attach list of originating sites as appropriate.

STATE OF COLORADO
OIL & GAS
CONSERVATION COMMISSION

DEPARTMENT OF NATURAL RESOURCES
Roy Romer, Governor
1120 Lincoln St., Suite 801
Denver, CO 80203
Phone: (303) 894-2100
FAX: (303) 894-2109

November 19, 1997

Darrell Mott
Big A Well Service
5723 Hwy 160 & 666
Cortez, CO 81321

Re: State Notification of Transportation of Exempt Oil Field Waste from the rig wash sump of Big A Well Service, 5723 Hwy. 160 & 666, Cortez, Colorado 81321.

Dear Mr. Mott:

Thank you for notifying the Colorado Oil and Gas Conservation Commission (COGCC) of the transportation of waste from the above referenced site to an NMOCD approved site in New Mexico. It is our understanding that approximately 68 barrels of wash water will be transported to Sunco Trucking, a Class 1 site, permit No. CR 3500 - 345.

Certification may be required by the State of New Mexico Oil Conservation Commission (NMOCD) from your company, the transporter or the generator. Transport of this waste may be subject to other state and Federal laws.

Sincerely,

Loren E. Avis
Environmental Protection Specialist
COGCC

cc: Denney Foust, NMOCD
Mike Thomas, Sunco

DEPARTMENT OF NATURAL RESOURCES: James S. Lochhead, Executive Director
COGCC COMMISSION: Caroline Blackwell • Allen Heinle • Bruce Johnson • Logan MacMillan • Mike Matheson • Claudia Rebne • Marla Williams
COGCC STAFF: Richard T. Griebling, Director • Brian J. Macke, Deputy Director • Morris Bell, Manager of Engineering
Patricia C. Beaver, Manager, Environmental & Commission Affairs • Marnan Peacock, Manager of Information

Inter·Mountain Laboratories, In

2506 W. Main Street
Farmington, New Mexico 87401

Michael Talovich
Sunco Trucking
708 S. Tucker
Farmington, NM 87401

12 December 1997

Mr. Talovich:

Enclosed, please find the reports for the sample received by our laboratory for analysis on December 2, 1997.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

Sincerely,

Sharon Williams
Organics Lab Supervisor

Enclosures
xc: File

Inter-Mountain Laboratories, In

2506 W. Main Street
Farmington, New Mexico 87401

SUNCO TRUCKING

Case Narrative

On December 2, 1997, one sample was submitted to Inter-Mountain Laboratories - Farmington for analysis. The sample was identified by project "Big A Well Service/Cortez Yard Sump". The sample was analyzed for the parameters indicated on the accompanying Chain of Custody document # 50897.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analysis of the sample reported herein are found in Test Methods For Evaluation of Solid Waste, SW-846, USEPA, 1986, and Methods For Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1983.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely,

Sharon Williams
Organics Lab Supervisor

Inter-Mountain Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSES / PARAMETERS
BIG A well service / Cortez	Cortez Big A YARD SUMP	
Sampler: (Signature) Mike Thomas	**Chain of Custody Tape No.**	

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Rubin TCS Sugar Dispose				Remarks
CORTEZ YARD SUMP	12-1-97	2 PM		H_2O	6	✓				Sunco.
										Bill to ~~Big "A" Serv./Cortez Div.~~
										All reports + inv. go to MIKE T.
										Cool + intact

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Mike Thomas	12-2-97	8:45AM	Chris Raymer	12-2-97	0845
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by laboratory: (Signature)	Date	Time

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, Wyoming 82801
Telephone (307) 672-8945

1701 Phillips Circle
Gillette, Wyoming 82716
Telephone (307) 682-8945

2506 West Main Street
Farmington, NM 87401
Telephone (505) 326-4737

1160 Research Drive
Bozeman, Montana 59718
Telephone (406) 586-8450

Route 3, Box 256
College Station, TX 77845
Telephone (409) 776-8945

01-50897

Inter·Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Client: Sunco Trucking
Project: Disposal Plant
Sample ID: Cortez Yard Sump
Lab ID: 0397G02770
Matrix: Water
Condition: Cool/Intact

Date Received: 12/02/97
Date Reported: 12/12/97
Date Sampled: 12/01/97
Time Sampled: 1400

Parameter	Analytical Result	Units		Units	PQL	Method	Analysis Date	Time	Init.
General Parameters									
PH	8.5	s.u.			0.1	EPA 150.1	12/02/97	1600	AP
Electrical Conductivity	1,940	µmhos/cm			10	EPA 120.1	12/02/97	1600	AP
Solids - Total Dissolved	1,180	mg/L			10	EPA 160.1	12/03/97	1530	AP
Solids - Total Dissolved (Calc)	1,080	mg/L			10	Calculation	12/12/97	0920	JG
Solids-Total	1,310	mg/L			10	EPA 160.3	12/09/97	1610	BJ
Alkalinity (CaCO3)	112	mg/L			1	EPA 310.1	12/04/97	0925	BJ
Hardness (CaCO3)	356	mg/L			1	Calculation	12/12/97	0920	JG
Major Anions									
Bicarbonate (HCO3)	136	mg/L	2.23	meq/L	1	EPA 310.1	12/04/97	0925	BJ
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	12/04/97	0925	BJ
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	12/04/97	0925	BJ
Chloride	580	mg/L	16.4	meq/L	1	EPA 300.0	12/04/97	1115	AP
Nitrogen - Nitrate/Nitrit	<0.05	mg/L	<0.01	meq/L	0.05	EPA 353.2	12/04/97	1348	SH
Sulfate	30	mg/L	0.63	meq/L	5	EPA 300.0	12/04/97	1115	AP
Major Cations									
Calcium	118	mg/L	5.91	meq/L	0.2	EPA 200.7	12/04/97	1100	ST
Magnesium	14.6	mg/L	1.20	meq/L	0.2	EPA 200.7	12/04/97	1100	ST
Potassium	37.3	mg/L	0.95	meq/L	0.2	EPA 200.7	12/04/97	1100	ST
Sodium	228	mg/L	9.94	meq/L	0.2	EPA 200.7	12/04/97	1100	ST
Cation/Anion Balance QC Information n									
Anion Sum			19.2	meq/L	N/A	Calculation	12/12/97	0920	JG
Cation Sum			18.0	meq/L	N/A	Calculation	12/12/97	0920	JG
Cation/Anion Balance			3.25	%	N/A	Calculation	12/12/97	0920	JG

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.
EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/100 August, 1983.

Reviewed By: John Green

John Green, Water Lab Supervisor

Inter-Mountain Laboratories, In

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS

SUNCO TRUCKING

Project ID:	Big A Well Service	Report Date:	12/12/97
Sample ID:	Cortez Yard Sump	Date Sampled:	12/01/97
Lab ID:	0397G02770	Time Sampled:	2:00pm
Sample Matrix:	Water	Date Received:	12/02/97
Condition:	Cool/Intact	Date Extracted:	NA
		Date Analyzed:	12/09/97

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	0.4
Toluene	4.1	0.4
Ethylbenzene	ND	0.4
m,p-Xylenes	2.8	0.4
o-Xylene	3.5	0.4

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	97%	70%-130%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	**Sunco Trucking**		
Project:	Big A Well Service	Date Reported:	12/12/97
Sample ID:	Cortez Yard Sump	Date Sampled:	12/01/97
Laboratory ID:	0397G02770	Date Received:	12/02/97
Sample Matrix:	Water	Date Analyzed:	12/09/97

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	<0.005	0.005	5	mg/L
Barium	<0.01	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	<0.01	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By: _____ Reviewed: _____

Inter-Mountain Laboratories, In

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Spike Analysis / Blank Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	Sunco Trucking	Date Reported:	12/09/97
Project:	Big A Well Service	Date Analyzed:	12/09/97
Sample Matrix:	Water	Date Received:	12/02/97

Spike Analysis

Parameter	Spike Result (mg/L)	Sample Result (mg/L)	Spike Added (mg/L)	Percent Recovery
Arsenic	0.023	<0.005	0.025	94%
Barium	0.93	<0.01	1.00	93%
Cadmium	1.110	<0.004	1.000	110%
Chromium	1.08	<0.01	1.00	108%
Lead	1.09	<0.05	1.00	109%
Mercury	0.024	<0.001	0.025	96%
Selenium	0.027	<0.005	0.025	88%*
Silver	7.12	<0.01	10.00	71%*

Method Blank Analysis

Parameter	Result	Detection Limit	Units
Arsenic	ND	0.005	mg/L
Barium	ND	0.01	mg/L
Cadmium	ND	0.004	mg/L
Chromium	ND	0.01	mg/L
Lead	ND	0.05	mg/L
Mercury	ND	0.001	mg/L
Selenium	ND	0.005	mg/L
Silver	ND	0.01	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments: *Spike recovery failed to meet established QC limits due to matrix interferences.

Reported by _____

Reviewed by _____

Inter-Mountain Laboratories, In

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	Sunco Trucking	Date Reported:	12/12/97
Project:	Big A Well Service	Date Analyzed:	12/09/97
Sample Matrix:	Water	Date Received:	12/02/97

Known Analysis

Parameter	Found Result	Known Result	Percent Recovery	Units
Arsenic	0.010	0.010	100%	mg/L
Barium	0.97	1.00	97%	mg/L
Cadmium	1.000	1.000	100%	mg/L
Chromium	1.00	1.00	100%	mg/L
Lead	0.98	1.00	98%	mg/L
Mercury	0.008	0.008	100%	mg/L
Selenium	0.010	0.010	100%	mg/L
Silver	0.97	1.00	97%	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported by _____

Reviewed by _____

Inter-Mountain Laboratories, In

2506 W. Main Street
Farmington, New Mexico 87401

QUALITY CONTROL/QUALITY ASSURANCE

VOLATILE AROMATIC HYDROCARBONS

KNOWN ANALYSIS

Client: Sunco Trucking
Project: Big A Well Service

Date Reported: 12/12/97
Date Analyzed: 12/09/97

Parameter	Found Result (ppb)	Known Result (ppb)	Percent Recovery	Acceptance Limits
Benzene	4.4	4.0	110%	70 - 130%
Toluene	4.0	4.0	99%	70 - 130%
Ethylbenzene	4.1	4.0	103%	70 - 130%
m+p - Xylene	9.1	8.0	114%	70 - 130%
o - Xylene	4.4	4.0	110%	70 - 130%

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	96%	75-125%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst _____ Reviewed by _____

Inter-Mountain Laboratories, In

2506 W. Main Street
Farmington, New Mexico 87401

QUALITY CONTROL/QUALITY ASSURANCE
QUALITY CONTROL REPORT

METHOD BLANK ANALYSIS

Sample Matrix: Water
Lab ID: Method Blank

Report Date: 12/12/97
Date Analyzed: 12/09/97

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	ND	0.2
o-Xylene	ND	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	89%	70-130%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, In

2506 W. Main Street
Farmington, New Mexico 87401

QUALITY CONTROL/QUALITY ASSURANCE
VOLATILE AROMATIC HYDROCARBONS

BLANK SPIKE ANALYSIS

Lab ID: Blank Spike
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 12/12/97
Date Analyzed: 12/09/97

Target Analyte	Blank Spike Concentration (ppb)	Method Blank Concentration (ppb)	Spike Added (ppb)	% Recovery	Acceptance Limits (%)
Benzene	20.11	ND	20.0	101%	70-130
Toluene	17.65	ND	20.0	88%	70-130
Ethylbenzene	18.96	ND	20.0	95%	70-130
m,p-Xylenes	41.13	ND	40.0	103%	70-130
o-Xylene	19.58	ND	20.0	98%	70-130

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	94%	70 -130%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, In

2506 W. Main Street
Farmington, New Mexico 87401

QUALITY CONTROL/QUALITY ASSURANCE
VOLATILE AROMATIC HYDROCARBONS

DUPLICATE ANALYSIS

Lab ID: 0397G02770
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 12/12/97
Date Analyzed: 12/09/97

Target Analyte	Duplicate Concentration (ppb)	Original Concentration (ppb)	% Difference
Benzene	ND	ND	NA
Toluene	4.6	4.1	11.5
Ethylbenzene	ND	ND	NA
m,p-Xylenes	2.7	2.8	3.6
o-Xylene	3.4	3.5	2.9

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	119%	70 -130%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Quanterra
Environmental
Services

ANALYTICAL RESULTS

FOR

INTER-MOUNTAIN LABORATORIES, INC.

QUANTERRA NO. 058285

DECEMBER 10, 1997

Prepared by: _____

Julia A. Potter

Quanterra
Environmental Services

Table Of Contents

Standard Deliverable

Report Contents

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- Chain-of-Custody
- Miscellaneous

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Quanterra
Environmental Services

I. OVERVIEW

On December 3, 1997, Quanterra Environmental Services, Denver laboratory received one aqueous sample from Inter-Mountain Laboratories, Inc..

This report presents the analytical results as well as supporting information to aid in the evaluation and interpretation of the data and is arranged in the following order:

I. Overview
II. Sample Description Information/Analytical Test Requests
III. Analytical Results
IV. Quality Control Report
    A. Standard Quanterra QC
    B. Matrix Specific QC

Standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory QC samples analyzed in conjunction with the samples in this project were within established control limits.

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LIMs Report Key

Section	Description
Cover Letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled, and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed, and any data qualifiers. Pages are organized by test.
QC LOT Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory duplicate control samples for each test are tabulated in this report. These are measures of accuracy and precision for each test. Acceptance limits are based upon laboratory historical data.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

Abbreviation	Term	Abbreviation	Term
DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation Batch
EB	Equipment Blank	QC Category	LIMs QC Category
FB	Field Blank	QC Lot	DCS Batch
FD	Field Duplicate	ND	Not Detected at or above the reporting limit expressed
IDL	Instrument Detection Limit (Metals)	QC Matrix	Matrix of the laboratory control sample(s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	Spike Duplicate
RPD	Relative Percent Difference	TB	Trip Blank
ppm (part-per-million)	mg/L or mg/kg (usually)	ppb (part-per-billion)	ug/L or ug/kg (usually)
QUAL	Qualifier flag	DIL	Dilution Factor

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II. SAMPLE DESCRIPTION INFORMATION/ANALYTICAL TEST REQUESTS

Sample Description Information

The Sample Description Information lists all of the samples received in this project together with the internal laboratory identification number assigned to each sample. Each project received at Quanterra's Denver laboratory is assigned a unique six digit number. Samples within the project are numbered sequentially. The laboratory identification number is a combination of the six digit project code and the sample sequence number.

Also given in the Sample Description Information is the Sample Type (matrix), Date of Sampling (if known) and Date of Receipt at the laboratory.

Analytical Test Requests

The Analytical Test Requests lists the analyses that were performed on each sample. The Custom Test column indicates where tests have been modified to conform to the specific requirements of this project.

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Inter-Mountain Laboratories, Inc.

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
058285-0001-SA	Cortez Yard Sump	WATER	01 DEC 97	14:00	03 DEC 97

Quanterra
Environmental Services

ANALYTICAL TEST REQUESTS
for
Inter-Mountain Laboratories, Inc.

Lab ID: 058285	Group Code	Analysis Description	Custom Test?
0001	A	Halogenated Volatile Organics	N
		Halogenated Volatile Organics - 2nd Column	N

Quanterra
Environmental Services

III. ANALYTICAL RESULTS

The analytical results for this project are presented in the following data tables. The results are presented by sample, by test, with tests reported in the following order: GC/MS, Chromatography, Metals and Inorganics.

Each data table includes sample identification information, and when available and appropriate, dates sampled, received, authorized, prepared and analyzed. The authorization date is the date when the project was defined by the client such that laboratory work could begin. The date prepared is typically the date an extraction or digestion was initiated. For volatile organic compounds in water, the date prepared is the date the screening of the sample was performed.

Datasheets contain a listing of the parameters measured in each test, the analytical results and Quanterra's Denver laboratory reporting limit. Reporting limits are adjusted to reflect dilution of the sample, when appropriate. Solid and soil samples are reported on a "Dry weight" basis, i.e. correction is made for moisture content.

In addition, surrogate recovery data is presented for all GC/MS analyses. The surrogate recovery is an indication of the effect of the sample matrix on the performance of the method. The results from Quanterra's Denver Laboratory Standard QA/QC Program, which generates data independent of matrix effects, are given in Section IV.

Quanterra
Environmental Services

Halogenated Volatile Organics
Method 8010

Client Name: Inter-Mountain Laboratories, Inc.
Client ID: Cortez Yard Sump
Lab ID: 058285-0001-SA
Matrix WATER Sampled: 01 DEC 97 Prepared: NA
Authorized: 03 DEC 97 Received: 03 DEC 97 Analyzed: 05 DEC 97

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	5.0
Bromomethane	ND	ug/L	5.0
Vinyl chloride	ND	ug/L	1.0
Chloroethane	ND	ug/L	5.0
Methylene chloride	ND	ug/L	5.0
1,1-Dichloroethene	ND	ug/L	0.50
1,1-Dichloroethane	ND	ug/L	0.50
trans-1,2-Dichloroethene	ND	ug/L	0.50
Chloroform	5.8	ug/L	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0
1,2-Dichloroethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	0.50
Carbon tetrachloride	ND	ug/L	0.50
Bromodichloromethane	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
trans-1,3-Dichloropropene	ND	ug/L	1.0
Trichloroethene	ND	ug/L	0.50
Dibromochloromethane	ND	ug/L	1.0
cis-1,3-Dichloropropene	ND	ug/L	2.0
1,1,2-Trichloroethane	ND	ug/L	1.0
EDB (1,2-Dibromoethane)	ND	ug/L	2.0
Bromoform	ND	ug/L	5.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	0.50
Chlorobenzene	ND	ug/L	2.0

Surrogate	Recovery		Limits
4-Chlorotoluene	89	%	84-123

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Shawn Hadley Approved By: Audrey Cornell

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Organics by Chromatography

Analyte	Concentration Spiked	Measured	Accuracy(%) LCS	Limits
Category: 601-A2				
Matrix: AQUEOUS				
QC Lot: 05 DEC 97-F	QC Run: 05 DEC 97-F			
Concentration Units: ug/L				
1,1-Dichloroethane	5.00	3.04	61	47-132
Chloroform	5.00	4.05	81	58-128
Bromodichloromethane	10.0	7.54	75	42-172
Trichloroethene	5.00	3.58	72	65-134
Chlorobenzene	5.00	4.68	94	53-128

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Organics by Chromatography

Analyte	Concentration Spiked	Measured	Accuracy(%) SCS	Limits
Category: 601-A2				
Matrix: AQUEOUS				
QC Lot: 05 DEC 97-F QC Run: 05 DEC 97-F				
Concentration Units: ug/L				
4-Chlorotoluene	20.0	19.6	98	84-123

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Organics by Chromatography

Test: 8010-A
Matrix: WATER
QC Lot: 05 DEC 97-F QC Run: 05 DEC 97-F

Analyte	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	5.0
Bromomethane	ND	ug/L	5.0
Vinyl chloride	ND	ug/L	1.0
Chloroethane	ND	ug/L	5.0
Methylene chloride	ND	ug/L	5.0
1,1-Dichloroethene	ND	ug/L	0.50
1,1-Dichloroethane	ND	ug/L	0.50
trans-1,2-Dichloroethene	ND	ug/L	0.50
Chloroform	ND	ug/L	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0
1,2-Dichloroethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	0.50
Carbon tetrachloride	ND	ug/L	0.50
Bromodichloromethane	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
trans-1,3-Dichloropropene	ND	ug/L	1.0
Trichloroethene	ND	ug/L	0.50
Dibromochloromethane	ND	ug/L	1.0
cis-1,3-Dichloropropene	ND	ug/L	2.0
1,1,2-Trichloroethane	ND	ug/L	1.0
EDB (1,2-Dibromoethane)	ND	ug/L	2.0
Bromoform	ND	ug/L	5.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	0.50
Chlorobenzene	ND	ug/L	2.0

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Organics by Chromatography
Project: 058285

Category: 601-A2 Halogenated Volatile Organics
Matrix: AQUEOUS
Sample: 058285-0001
MS Run: 05 DEC 97-F
Units: ug/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS	Amount Spiked MSD	% Recovery MS	% Recovery MSD	Recov. Accep. Limits	RPD MS-MSD	RPD Accept Limits
1,1-Dichloroethane	ND	3.20	3.22	5.00	5.00	64	64	47-132	0.6	15
Chloroform	5.83	10.5	10.4	5.00	5.00	93	91	58-128	0.9	15
Bromodichloromethane	ND	8.03	7.85	10.0	10.0	80	78	42-172	2.3	15
Trichloroethene	ND	3.98	3.93	5.00	5.00	80	79	65-134	1.3	15
Chlorobenzene	ND	4.69	4.76	5.00	5.00	94	95	53-128	1.5	15

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☑ Verbal Approval Received: Yes ☐ No ☑	4. Generator WFS
	5. Originating Site Plant Ponds
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 Aztec NM	8. State NM
7. Location of Material (Street Address or ULSTR) Mi AGRO Plant	

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:

Waste water from evap ponds contains storm water with amounts of Amine and glycol

RECEIVED
DEC 30 1997
OIL CON. DIV.
DIST. 3

Continuation from November, 1997

Estimated Volume 200,000 GALS cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [redacted] TITLE: Disposal Mgr DATE: 12-30-97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 12/30/97

APPROVED BY: Martyne J. Kelly TITLE: Env. Geologist I DATE: 1/7/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
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Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator WFS
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site PLANT PONDS
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345, AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) MI/AGRO PLANT	

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:

WASTE WATER FROM EVAP PONDS CONTAINS STORM WATER WITH AMOUNTS of AMINE and glycol

RECEIVED
DEC 3 0 1997
OIL CON. DIV.

Continuation from November, 1997

Estimated Volume 200,000 GALS cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: DISPOSAL MGR DATE: 12-30-97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 12/30/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
WILLIAM FIELD SERVICES 295 CHIPETA WAY SALT LAKE CITY UT 84158	SUNCO DISPOSAL
3. Originating Site (name): MILAGRO PLANT Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** 192 COUNTY ROAD 4900 BLOOMFIELD NM 87413
4. Source and Description of Waste WASTE WATER FROM EVAPORATION PONDS AT NATURAL GAS TREATMENT PLANT	

I, GERALD SMITH representative for:
(Print Name)

WILLIAMS FIELD SERVICES COMPANY 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

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 only the following documentation is attached (check appropriate items):

___ MSDS Information
X RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Gerald Smith

Title: PLANT SUPT.

Date: 12/30/92

Q.W.A.L. LABORATORIES, INC.

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: FAX 1-316-232-7730 OR PHONE 1-316-232-1870

(1) Company Name: Williams Field Services
Attention: Ingrid Deklau
(4) Phone #: 801-584-6543
Address: 295 Chipeta Way (2G1)
Salt Lake City, Ut. 84158
City, State, Zip Code
(4) Fax #: 801-584-7760

(13) TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☐ Standard ☐ 72 Hours ☒ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

(2) Project Name or Number: Milagro Evap Ponds
(5) Purchase Order #:

(3) Sampling Personnel Signature(s)
Sampling Personnel (print name): Windy Preston

(12) ANALYSIS REQUEST
(Write Tests Here)

(6) Sample I.D.	Date (7)	Time (7)	(8) Comp.	(8) Grab	(9) # of Containers	(10) Method Preserved: H2SO4	HNO3	NAOH	HCL	Ice	None	(11) Sample Matrix: Water	Soil	Sludge	Other	RCRA Metals	REMARKS (If special detection limits are required please note below.)
NORTH POND	9/6			✓	1					✓						X	Reserve on Site FOR EACH CONTAINER
SOUTH POND	9/6			✓	1					✓						X	
WEST POND	9/6			✓	1					✓						X	

(10) Relinquished By: Windy Preston for Tom Foh — Date — Time
Received By: Frank Lonegrass — Date 9-7-97 — Time 1:20
Relinquished By: — Date — Time
Received By: — Date — Time
Relinquished By: — Date — Time
Received By: — Date — Time

(14) Send Report to:
Company: Williams Field Services
Attn: Ingrid Deklau
Address: 295 Chipeta Way (2G1)
City/State: Salt Lake City, UT 84158
Phone: 801-584-6543
Fax: 801-584-7760

(14) Send Invoice to: (if different form report address)
Company:
Attn:
Address:
City/State:
Phone:
Fax:

*FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS.

10-OCT 06 '97 12:36PM WI WILLIAMS FIELD SVCS/RIES 316 232 77 P.6/17 P.4

Q.W.A.L. LABO ATORIES, INC.

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: FAX 1-316-232-7730 OR PHONE 1-316-232-1970

1115

(1) Company Name: WILLIAMS FIELD SERVICES (4) Phone #: 801-584-6543
Attention: INGRID DEKLAU
Address: 295 CHIPETA WAY #261 (4) Fax #: 801-584-7760
City, State, Zip Code: SALT LAKE City, Ut 84158

(13) TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☐ Standard ☐ 72 Hours ☒ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

(2) Project Name or Number: MIDAGRO EVAP PONDS
(5) Purchase Order #:

(3) Sampling Personnel Signature(s): [signature]
Sampling Personnel (print name): WINDY [illegible]

(11) ANALYSIS REQUEST (Write Tests Here)

(6) Sample I.D.	(7) Date	(7) Time	(8) Comp.	(8) Grab	(9) # of Containers	(10) Method Preserved: H2SO4	HNO3	NAOH	NCL	Ice	None	(12) Sample Matrix: Water	Soil	Air	Sludge	Other	Volatiles 8260	Semi Volatiles 8270	PCRA Metals	REMARKS
NORTH POND	9/30			✓	2				✓	✓		✓					X			
SOUTH POND	9/30			✓	2				✓	✓		✓					X			
WEST POND	9/30			✓	2				✓	✓		✓					X			
NORTH POND	9/30				1					✓								X	X	
SOUTH POND	9/30				1					✓								X	X	
WEST POND	9/30				1					✓								X	X	

(14) Relinquished By: [signature] Date 9/30 Time 2:30 pm
Received By: [signature] Date 10-1-97 Time 1:00
Relinquished By: Date Time
Received By: Date Time
Relinquished By: Date Time
Received By: Date Time

(15) Send Report to:
Company: WILLIAMS FIELD SERVICES
Attn: INGRID DEKLAU
Address: 295 CHIPETA WAY
City/State: SALT LAKE CITY/UT
Phone: 801 584 6543
Fax: 801 584 7760

(16) Send Invoice to:
(if different form report address)
Company:
Attn:
Address:
City/State:
Phone:
Fax:

*FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS.

10-OCT 06 '97 12:36PM WTL IS FIELD SVCS,RIES 316 232 77: P.7/7 P.5

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: REFERENCE #: 9710022

SENT TO: WILLIAMS FIELD SERVICES
295 CHIPETA WAY, 201
SALT LAKE CITY, UT 84158
INGRID DEKLAU

DATE REPORTED: 10/03/97
DATE COLLECTED: 09/30/97
DATE RECEIVED: 10/01/97
P.O. #:

PROJECT: MILAGRO EVAP PONDS

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.100	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	21.0	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MS2	
LEAD, TOTAL	SW 846 6010	0.51	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.05	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	100	10/02/97DN	10/01/97
ACENAPHTHYLENE	208-96-8	ND	UG/L	100	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	100	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	500	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	100	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	500	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(A)PIRENE	191-24-2	ND	UG/L	100	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	200	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	100	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	100	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	100	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	200	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	200	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	100	10/02/97DN	10/01/97
2-CHLOROPHENOL	95-57-8	ND	UG/L	100	10/02/97DN	10/01/97
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	100	10/02/97DN	10/01/97
CHRYSENE	218-01-9	ND	UG/L	100	10/02/97DN	10/01/97
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	100	10/02/97DN	10/01/97
DIBENZOFURAN	132-64-9	ND	UG/L	100	10/02/97DN	10/01/97
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	100	10/02/97DN	10/01/97

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTED
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	100	10/02/97DN	10/01/97
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	100	10/02/97DN	10/01/97
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	200	10/02/97DN	10/01/97
2,4-DICHLOROPHENOL	120-83-2	ND	UG/L	100	10/02/97DN	10/01/97
DIETHYL PHTHALATE	84-66-2	ND	UG/L	100	10/02/97DN	10/01/97
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	100	10/02/97DN	10/01/97
DIMETHYLPHATHALATE	131-11-3	ND	UG/L	100	10/02/97DN	10/01/97
ISOPHORONE	78-59-1	ND	UG/L	100	10/02/97DN	10/01/97
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	100	10/02/97DN	10/01/97
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	500	10/02/97DN	10/01/97
2,4-DINITROPHENOL	51-28-5	ND	UG/L	500	10/02/97DN	10/01/97
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	100	10/02/97DN	10/01/97
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	100	10/02/97DN	10/01/97
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	100	10/02/97DN	10/01/97
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	100	10/02/97DN	10/01/97
FLUORANTHENE	206-44-0	ND	UG/L	100	10/02/97DN	10/01/97
FLUORENE	86-73-7	ND	UG/L	100	10/02/97DN	10/01/97
HEXACHLOROBENZENE	118-74-1	ND	UG/L	100	10/02/97DN	10/01/97
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	100	10/02/97DN	10/01/97
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	100	10/02/97DN	10/01/97
HEXACHLOROETHANE	67-72-1	ND	UG/L	100	10/02/97DN	10/01/97
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	100	10/02/97DN	10/01/97
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	100	10/02/97DN	10/01/97
2-METHYLPHENOL	95-48-7	ND	UG/L	100	10/02/97DN	10/01/97
4-METHYLPHENOL	106-44-5	ND	UG/L	100	10/02/97DN	10/01/97
NAPHTHALENE	91-20-3	ND	UG/L	100	10/02/97DN	10/01/97
2-NITROANILINE	88-74-4	ND	UG/L	500	10/02/97DN	10/01/97
3-NITROANILINE	99-09-2	ND	UG/L	500	10/02/97DN	10/01/97
4-NITROANILINE	100-01-6	ND	UG/L	500	10/02/97DN	10/01/97
NITROBENZENE	98-95-3	ND	UG/L	100	10/02/97DN	10/01/97
2-NITROPHENOL	88-75-5	ND	UG/L	500	10/02/97DN	10/01/97
4-NITROPHENOL	100-02-7	ND	UG/L	500	10/02/97DN	10/01/97
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	100	10/02/97DN	10/01/97
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	100	10/02/97DN	10/01/97
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	100	10/02/97DN	10/01/97
PENTACHLOROPHENOL	87-86-5	ND	UG/L	500	10/02/97DN	10/01/97
PHENANTHRENE	85-01-8	ND	UG/L	100	10/02/97DN	10/01/97
PHENOL	108-95-2	ND	UG/L	100	10/02/97DN	10/01/97
PYRENE	129-00-0	ND	UG/L	100	10/02/97DN	10/01/97
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	100	10/02/97DN	10/01/97
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	100	10/02/97DN	10/01/97
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	100	10/02/97DN	10/01/97
2-FLUOROBIPHENYL (SUR)	-	44.7	150	10		10/01/97
NITROBENZENE-D8 (SUR)	-	37.9	150	10		10/01/97
2-FLUOROPHENOL (SUR)	-	24.0	150	10		10/01/97
2,4,6-TRIBROMOPHENOL (SUR)	-	23.7	150	10		10/01/97
TERPHENYL-D14 (SUR)	-	63.3	150	10		10/01/97
PHENOL-D5 (SUR)	-	12.0	150	10		10/01/97

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTED
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-48-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOMETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-59-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EG	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EG	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EG	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EG	

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EG	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EG	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EG	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EG	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EG	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EG	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE-D4	-	105	125	75		
TOLUENE-d8	-	98	125	75		
4-BROMOFLUOROBENZENE	-	89	125	75		

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.080	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	32.1	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MS2	
LEAD, TOTAL	SW 846 6010	0.95	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.05	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
ACENAPHTHYLENE	208-96-8	ND	UG/L	1000	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	1000	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	1000	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	2000	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	2000	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	2000	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTED
2-CHLOROPHENOL	95-57-8	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	1000	10/02/97DN	10/01/97
CHRYSENE	218-01-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZOFURAN	132-64-9	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	1000	10/02/97DN	10/01/97
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	2000	10/02/97DN	10/01/97
2,6-DICHLOROPHENOL	120-83-2	ND	UG/L	1000	10/02/97DN	10/01/97
DIETHYL PHTHALATE	84-66-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIMETHYLPHATHALATE	131-11-3	ND	UG/L	1000	10/02/97DN	10/01/97
ISOPHORONE	78-59-1	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	1000	10/02/97DN	10/01/97
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROPHENOL	51-28-5	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORANTHENE	206-44-0	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORENE	86-73-7	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBENZENE	118-74-1	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROETHANE	67-72-1	ND	UG/L	1000	10/02/97DN	10/01/97
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLPHENOL	95-48-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-METHYLPHENOL	106-44-5	ND	UG/L	1000	10/02/97DN	10/01/97
NAPHTHALENE	91-20-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROANILINE	88-74-4	ND	UG/L	5000	10/02/97DN	10/01/97
3-NITROANILINE	99-09-2	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROANILINE	100-01-6	ND	UG/L	5000	10/02/97DN	10/01/97
NITROBENZENE	98-95-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROPHENOL	88-75-5	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROPHENOL	100-02-7	ND	UG/L	5000	10/02/97DN	10/01/97
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	1000	10/02/97DN	10/01/97
PENTACHLOROPHENOL	87-86-5	ND	UG/L	5000	10/02/97DN	10/01/97
PHENANTHRENE	85-01-8	ND	UG/L	1000	10/02/97DN	10/01/97
PHENOL	108-95-2	ND	UG/L	1000	10/02/97DN	10/01/97
PYRENE	129-00-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
2-FLUOROBIPHENYL (SUR)	-	42.7	150	10		10/01/97
NITROBENZENE-D8 (SUR)	-	42.6	150	10		10/01/97
2-FLUOROPHENOL (SUR)	-	2.80 Q	150	10		10/01/97
2,4,6-TRIBROMOPHENOL (SUR)	-	23.7	150	10		10/01/97
TERPHENYL-D14 (SUR)	-	58.7	150	10		10/01/97
PHENOL-D5 (SUR)	-	0 Q	150	10		10/01/97
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-48-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOMETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-59-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EG	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EG	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EG	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EG	
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EG	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EG	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EG	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EG	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EG	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EG	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE-D4	-	99	125	75		
TOLUENE-d8	-	97	125	75		
4-BROMOFLUOROBENZENE	-	82	125	75		

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.030	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	75.5	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MS2	
LEAD, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.005	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
ACENAPTHYLENE	208-96-8	ND	UG/L	1000	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	1000	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	1000	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	2000	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTED
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	2000	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	2000	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	1000	10/02/97DN	10/01/97
2-CHLOROPHENOL	95-57-8	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	1000	10/02/97DN	10/01/97
CHRYSENE	218-01-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZOFURAN	132-64-9	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	1000	10/02/97DN	10/01/97
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	2000	10/02/97DN	10/01/97
2,4-DICHLOROPHENOL	120-83-2	ND	UG/L	1000	10/02/97DN	10/01/97
DIETHYL PHTHALATE	84-66-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIMETHYLPHTHALATE	131-11-3	ND	UG/L	1000	10/02/97DN	10/01/97
ISOPHORONE	78-59-1	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	1000	10/02/97DN	10/01/97
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROPHENOL	51-28-5	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORANTHENE	206-44-0	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORENE	86-73-7	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBENZENE	118-74-1	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROETHANE	67-72-1	ND	UG/L	1000	10/02/97DN	10/01/97
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLPHENOL	95-48-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-METHYLPHENOL	106-44-5	ND	UG/L	1000	10/02/97DN	10/01/97
NAPHTHALENE	91-20-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROANILINE	88-74-4	ND	UG/L	5000	10/02/97DN	10/01/97
3-NITROANILINE	99-09-2	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROANILINE	100-01-6	ND	UG/L	5000	10/02/97DN	10/01/97
NITROBENZENE	98-95-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROPHENOL	88-75-5	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROPHENOL	100-02-7	ND	UG/L	5000	10/02/97DN	10/01/97
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	1000	10/02/97DN	10/01/97
PENTACHLOROPHENOL	87-86-5	ND	UG/L	5000	10/02/97DN	10/01/97

REFERENCE #: 9710022 PAGE: 8

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
PERYLENE	85-01-8	ND	UG/L	1000	10/02/97DN	10/01/97
PHENOL	108-96-2	ND	UG/L	1000	10/02/97DN	10/01/97
PYRENE	129-00-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	1000	10/02/97DN	10/01/97
2-FLUOROBIPHENYL (SUR)	-	47.5	150	10		10/01/97
NITROBENZENE-D5 (SUR)	-	50.8	150	10		10/01/97
2-FLUOROPHENOL (SUR)	-	0 Q	150	10		10/01/97
2,4,6-TRIBROMOPHENOL (SUR)	-	25.4	150	10		10/01/97
TERPHENYL-D14 (SUR)	-	61.7	150	10		10/01/97
PHENOL-D5 (SUR)	-	1.10 Q	150	10		10/01/97
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-48-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-59-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
[illegible]	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EG	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EG	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EG	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EG	
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EG	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EG	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EG	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EG	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EG	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EG	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE-D4	-	101	125	75		
TOLUENE-D8	-	96	125	75		
4-BROMOFLUOROBENZENE	-	83	125	75		

ND=NONE DETECTED
DL=DETECTION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SUR=SURROGATE

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

REFERENCE #: 9710022 PAGE: 10

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Lybrook Plant
2. Management Facility Destination KEY ENERGY SERVICES DISPOSAL	6. Transporter KEY ENERGY
3. Address of Facility Operator CR 3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) NM 103 Hiway 44 Cuba NM 87013	

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OIL CON. DIV.
DIST. 3

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:

Plant waste water from natural gas processing

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DEC 29 1998
OIL CON. DIV.
DIST. 3

wait on originals

Estimated Volume 300 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: MGR DATE: 12-29-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 1/4/99

APPROVED BY: Martyne J. Kelly TITLE: Env. Geologist DATE: 1/7/99

District I - (505) 393-6161
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New Mexico
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Lybrook Plant
2. Management Facility Destination KEY ENERGY SERVICES DISPOSAL	6. Transporter KEY ENERGY
3. Address of Facility Operator CR 3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) NM 103 Hwy 44 Cuba NM 87013	

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:

Plant waste water from natural gas processing

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DEC 29 1998
OIL CON. DIV.
DIST. 3

wait on originals

Estimated Volume 300 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael T. Talovich TITLE: MGR DATE: 12-29-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL C TALOVICH TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/4/99

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
WILLIAMS FIELD SERVICES CO 295 CHIPETA WAY SALT LAKE CITY, UT 84158	Key Energy
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
WFS Lybrook Plant	Milepost 103 Highway 44 Cuba NM 87013
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
plant wastewater from natural gas processing operations	

I, Ingrid Dekker representative for:
(Print Name)
Williams Field Services 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-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 only the following documentation is attached (check appropriate items):

___ MSDS Information
☑ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Ingrid Dekker

Title: Envt'l Specialist

Date: 12/28/98

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 9812755

SENT TO: *WILLIAMS GAS PIPELINE*
295 CHIPETA WAY
SALT LAKE CITY, UT 84108
801-584-6543 FAX 584-7760
DUANE ADAIR

DATE REPORTED: 12/28/98
DATE COLLECTED: 12/21/98
DATE RECEIVED: 12/22/98
P.O. #:

PROJECT: WASTEWATER POND

Sample ID: LYB-WW POND **Sample Matrix: WATER**
Sample Date Collected: 12/21/98

T T	METHOD	RESULT	UNITS	DL	ANALYSED	BY
TCLP EXTRACTION	EPA 1311	DONE				RH
SILVER, TCLP	SW 846 6010	0.020	MG/L	0.01	12/28/98	MS2
ARSENIC, TCLP	SW 846 7060	0.003	MG/L	0.001	12/23/98	MS
BARIUM, TCLP	SW 846 6010	0.610	MG/L	0.005	12/28/98	MS2
CADMIUM, TCLP	SW 846 6010	<0.005	MG/L	0.005	12/28/98	MS2
CHROMIUM, TCLP	SW 846 6010	0.167	MG/L	0.01	12/28/98	MS2
MERCURY, TCLP	SW 846 7470	<0.0002	MG/L	0.0002	12/28/98	JMM
LEAD, TLCP	SW 846 6010	<0.050	MG/L	0.05	12/28/98	MS2
SELENIUM, TCLP	SW 846 7740	0.0039	MG/L	0.002	12/23/98	MS

Sample ID: LYB-WW POND MS **Sample Matrix: WATER**
Sample Date Collected: 12/21/98

TEST	METHOD	RESULT	UNITS	DL	ANALYSED	BY
TCLP EXTRACTION	EPA 1311	DONE				RH
SILVER, TCLP	SW 846 6010	96.5	% REC		12/28/98	MS2
ARSENIC, TCLP	SW 846 7060	104.7	% REC		12/23/9	MS
BARIUM, TCLP	SW 846 6010	118.9	% REC		12/28/98	MS2
CADMIUM, TCLP	SW 846 6010	124.8	% REC		12/28/98	M 2
CHROMIUM, TCLP	SW 846 6010	99.9	% REC		12/28/98	MS2
MERCURY, TCLP	SW 846 7470	101.4	% REC		12/28/98	JMM
LEAD, TLCP	SW 846 6010	81.8	% REC		12/28/98	MS2
SELENIUM, TCLP	SW 846 7740	92.0	% REC		12/23/98	MS

Sample ID: LYB-WW POND **Sample Matrix: WATER**
Sample Date Collected: 12/21/98

T	METHOD	RESULT	UNITS	DL	ANALYZED	BY
EXTRACTION	EPA 1311	DONE				RH

le ID: LYB-WW POND Sample Matrix: WATER
ample Date Collected: 12/21/98

	METHOD	RESULT	UNITS	DL	ANALYSED	BY
TCLP SEMI-VOLATILES	SW 846 8270					
O-CRESOL		ND	MG/L	0.10	12/23/98	SKW
P-CRESOL		ND	MG/L	0.10	12/23/98	SKW
M-CRESOL		ND	MG/L	0.10	12/23/98	SKW
1,4-DICHLOROBENZENE		ND	MG/L	0.10	12/23/98	SKW
2,4-DINITROTOLUENE		ND	MG/L	0.10	12/23/98	SKW
HEXACHLOROBENZENE		ND	MG/L	0.10	12/23/98	SKW
HEXACHLOROBUTADIENE		ND	MG/L	0.10	12/23/98	SKW
HEXACHLOROETHANE		ND	MG/L	0.10	12/23/98	SKW
NITROBENZENE		ND	MG/L	0.10	12/23/98	SKW
PENTACHLOROPHENOL		ND	MG/L	0.50	12/23/98	SKW
PYRIDINE		ND	MG/L	0.10	12/23/98	SKW
2,4,5-TRICHLOROPHENOL		ND	MG/L	0.10	12/23/98	SKW
2,4,6-TRICHLOROPHENOL		ND	MG/L	0.10	12/23/98	SKW
TCLP EXTRACTION	EPA 1311	DONE				RH
TCLP VOLATILES	SW 846 8260					
BENZENE		ND	MG/L	0.015	12/22/98	TK
CARBON TETRACHLORIDE		ND	MG/L	0.015	12/22/98	TK
CHLOROBENZENE		ND	MG/L	0.015	12/22/98	TK
CHLOROFORM		ND	MG/L	0.015	12/22/98	TK
1,2-DICHLOROETHANE		ND	MG/L	0.015	12/22/98	TK
1,1-DICHLOROETHYLENE		ND	MG/L	0.015	12/22/98	TK
METHYL ETHYL KETONE		ND	MG/L	0.015	12/22/98	TK
TETRACHLOROETHYLENE		ND	MG/L	0.015	12/22/98	TK
TRICHLOROETHYLENE		ND	MG/L	0.015	12/22/98	TK
VINYL CHLORIDE		ND	MG/L	0.015	12/22/98	TK

ND=NONE DETECTED
DL=DETECTION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: _____
TERRY KOESTER
LABORATORY DIRECTOR

*FAX COPY TO INGRID AT 801-584-7760 ALSO.

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Williams Field Service
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site EL CEDRO PLANT
2. Management Facility Destination KEY ENERGY DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator PHYSICAL: #345 CR 5500 AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) HWY 64 MM 100.5 BLANCO NM 87412	

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:

WASH WATER OFF COMPRESSOR SKIDS

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DEC 2 4 1998
OIL CON. DIV.
DIST. 3

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DEC 1 5 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 250 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: MANAGER DATE: 12-15-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 12/15/98

APPROVED BY: Martyne J. Kelly TITLE: Env. Geologist DATE: 12/17/98

District I - (505) 393-6161
P. O. Box 1980
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1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division

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

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Williams Field Service
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site EL CEDRO PLANT
2. Management Facility Destination KEY ENERGY DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator PHYSICAL: #345 CR 3500 AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) HWY 64 MM 100.5 BLANCO NM 87412	

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:

Wash water off compressor skids

RECEIVED
DEC 15 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 250 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Taldich TITLE: Manager DATE: 12-15-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALDICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 12/15/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Williams Field Services 295 Chipeta Way Salt Lake City UT 84108	Key Energy
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
El Cedro Plant	Hwy 64 mile marker 100.5 Blanco NM 87412
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Waste water off compressor skids	

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OIL CON. DIV.
DIST. 3

I, Ingrid Deklau (Print Name) representative for:
Williams Field Services 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

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 only the following documentation is attached (check appropriate items):

___ MSDS Information
X RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Ingrid Deklau

Title: Environmental Specialist

Date: 12/10/98

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 9811077

SENT TO: WILLIAMS GAS PIPELINE
P.O. BOX 215
BLOOMFIELD, NM 87413
WILL SMITH

DATE REPORTED: 11/10/98
DATE COLLECTED: 11/03/98
DATE RECEIVED: 11/04/98
P.O. #:

PROJECT: RECIP WASTE WATER

Sample ID: EAST TANK **Sample Matrix:** WATER
Collection Date: 11/03/98 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
TCLP EXTRACTION	EPA 1311	DONE			RH	11/04/98
SILVER, TCLP	SW 846 6010	<0.01	MG/L	0.01	11/09/98AC	
ARSENIC, TCLP	SW 846 7060	<0.001	MG/L	0.001	11/06/98MS	
BARIUM, TCLP	SW 846 6010	0.197	MG/L	0.005	11/09/98MS	
CADMIUM, TCLP	SW 846 6010	<0.005	MG/L	0.005	11/06/98AC	
CHROMIUM, TCLP	SW 846 6010	<0.01	MG/L	0.01	11/06/98AC	
MERCURY, TCLP	SW 846 7470	<0.0002	MG/L	0.0002	11/05/98MS2	
LEAD, TLCP	SW 846 6010	0.092	MG/L	0.05	11/06/98AC	
SELENIUM, TCLP	SW 846 7740	<0.002	MG/L	0.002	11/06/98MS	
TCLP SEMI-VOLATILES	SW 846 8270					
O-CRESOL	75-48-7	0.515	MG/L	0.10	11/06/98DN	11/05/98
P-CRESOL	106-44-5	0.482	MG/L	0.10	11/06/98DN	11/05/98
M-CRESOL	59-50-7	ND	MG/L	0.10	11/06/98DN	11/05/98
1,4-DICHLOROBENZENE	541-73-1	ND	MG/L	0.10	11/06/98DN	11/05/98
2,4-DINITROTOLUENE	121-14-2	ND	MG/L	0.10	11/06/98DN	11/05/98
HEXACHLOROBENZENE	118-74-1	ND	MG/L	0.10	11/06/98DN	11/05/98
HEXACHLOROBUTADIENE	87-68-3	ND	MG/L	0.10	11/06/98DN	11/05/98
HEXACHLOROETHANE	67-72-1	ND	MG/L	0.10	11/06/98DN	11/05/98
NITROBENZENE	98-95-3	ND	MG/L	0.10	11/06/98DN	11/05/98
PENTACHLOROPHENOL	87-86-5	ND	MG/L	0.50	11/06/98DN	11/05/98
PYRIDINE	110-86-1	ND	MG/L	0.10	11/06/98DN	11/05/98
2,4,5-TRICHLOROPHENOL	95-95-4	ND	MG/L	0.10	11/06/98DN	11/05/98
2,4,6-TRICHLOROPHENOL	88-06-2	ND	MG/L	0.10	11/06/98DN	11/05/98
TCLP VOLATILES	SW 846 8260					
BENZENE	71-43-2	0.045	MG/L	0.015	11/05/98TK	
CARBON TETRACHLORIDE	56-23-5	ND	MG/L	0.015	11/05/98TK	
CHLOROBENZENE	108-90-7	ND	MG/L	0.015	11/05/98TK	
CHLOROFORM	67-66-3	ND	MG/L	0.015	11/05/98TK	
1,2-DICHLOROETHANE	107-06-2	ND	MG/L	0.015	11/05/98TK	
1,1-DICHLOROETHYLENE	75-35-4	ND	MG/L	0.015	11/05/98TK	
METHYL ETHYL KETONE	78-93-3	1.14	MG/L	0.015	11/05/98TK	
TETRACHLOROETHYLENE	127-18-4	ND	MG/L	0.015	11/05/98TK	
TRICHLOROETHYLENE	79-01-6	ND	MG/L	0.015	11/05/98TK	
VINYL CHLORIDE	75-01-4	ND	MG/L	0.015	11/05/98TK	

Sample ID: EAST TANK MS Sample Matrix: WATER
Collection Date: 11/03/98 11:00:00

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
TCLP EXTRACTION	EPA 1311	DONE			RH	11/04/98
SILVER, TCLP	SW 846 6010	106.9	% REC		11/09/98AC	
ARSENIC, TCLP	SW 846 7060	106.0	% REC		11/06/98MS	
BARIUM, TCLP	SW 846 6010	109.6	% REC		11/09/98MS	
CADMIUM, TCLP	SW 846 6010	103.7	% REC		11/06/98AC	
CHROMIUM, TCLP	SW 846 6010	104.9	% REC		11/06/98AC	
MERCURY, TCLP	SW 846 7470	98.1	% REC		11/05/98MS2	
LEAD, TLCP	SW 846 6010	90.3	% REC		11/06/98AC	
SELENIUM, TCLP	SW 846 7740	101.2	% REC		11/06/98MS	
TCLP SEMI-VOLATILES	SW 846 8270					
O-CRESOL	75-48-7	56.2	%RECOV	0.10	11/06/98DN	11/05/98
P-CRESOL	106-44-5	61.4	%RECOV	0.10	11/06/98DN	11/05/98
M-CRESOL	59-50-7	61.4	%RECOV	0.10	11/06/98DN	11/05/98
1,4-DICHLOROBENZENE	541-73-1	41.8	%RECOV	0.10	11/06/98DN	11/05/98
2,4-DINITROTOLUENE	]21-14-2	30.8	%RECOV	0.10	11/06/98DN	11/05/98
HEXACHLOROBENZENE	118-74-1	65.9	%RECOV	0.10	11/06/98DN	11/05/98
HEXACHLOROBUTADIENE	87-68-3	40.5	%RECOV	0.10	11/06/98DN	11/05/98
HEXACHLOROETHANE	67-72-1	35.7	%RECOV	0.10	11/06/98DN	11/05/98
NITROBENZENE	98-95-3	56.9	%RECOV	0.10	11/06/98DN	11/05/98
PENTACHLOROPHENOL	87-86-5	38.2	%RECOV	0.50	11/06/98DN	11/05/98
PYRIDINE	110-86-1	39.6	%RECOV	0.10	11/06/98DN	11/05/98
2,4,5-TRICHLOROPHENOL	95-95-4	70.4	%RECOV	0.10	11/06/98DN	11/05/98
2,4,6-TRICHLOROPHENOL	88-06-2	67.3	%RECOV	0.10	11/06/98DN	11/05/98
TCLP VOLATILES	SW 846 8260					
BENZENE	71-43-2	96.0	% REC	0.015	11/05/98TK	
CARBON TETRACHLORIDE	56-23-5	112	% REC	0.015	11/05/98TK	
CHLOROBENZENE	108-90-7	107	% REC	0.015	11/05/98TK	
CHLOROFORM	67-66-3	105	% REC	0.015	11/05/98TK	
1,2-DICHLOROETHANE	107-06-2	82.4	% REC	0.015	11/05/98TK	
1,1-DICHLOROETHYLENE	75-35-4	78.3	% REC	0.015	11/05/98TK	
METHYL ETHYL KETONE	78-93-3	102	% REC	0.015	11/05/98TK	
TETRACHLOROETHYLENE	127-18-4	77.4	% REC	0.015	11/05/98TK	
TRICHLOROETHYLENE	79-01-6	91.2	% REC	0.015	11/05/98TK	
VINYL CHLORIDE	75-01-4	106	% REC	0.015	11/05/98TK	

ND=NONE DETECTED
DL=DETECTION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
SUR=SURROGATE
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK

APPROVED BY: [signature]
TERRY KOESTER
LABORATORY DIRECTOR

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator El Paso Field Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Coyote Gulch Plant
2. Management Facility Destination KEY ENERGY DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator PHYSICAL: #345 CR 3500, Aztec NM	8. State COLO.
7. Location of Material (Street Address or ULSTR) SEC 17, T 32N, R 11W	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

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

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BRIEF DESCRIPTION OF MATERIAL:

Water mixed with cleaning solutions used at the Coyote Gulch Plant heat exchangers

Heat Exchanger is Gas to water. The Portion that was cleaned was the Tube Side which is Exempt.

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OIL CON. DIV.
DIST. 3

Cleaning Solutions used were Inorganic Na Carbonate
Inorganic - ?

Aspen Phone call with David Bays MJK 12-15-98

Estimated Volume 500 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: manager DATE: 12-4-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TOLOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: _____ TITLE: Geologist DATE: 12/8/98

APPROVED BY: _____ TITLE: Env Geologist DATE: 12/10/98

District I - (505) 393-6161
O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
11 S. First
rtesia, NM 88210
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..c, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator El Paso Field Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Coyote Gulch Plant
2. Management Facility Destination KEY ENERGY DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator Physical: #345 CR 3500, Aztec NM	8. State COLO.
7. Location of Material (Street Address or ULSTR) Sec 17, T 32N, R 11W	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

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

BRIEF DESCRIPTION OF MATERIAL:

Water mixed with cleaning solutions used at the Coyote Gulch Plant heat exchangers

RECEIVED
DEC - 4 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 500 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Tylovich (Waste Management Facility Authorized Agent) TITLE: manager DATE: 12-4-98

TYPE OR PRINT NAME: MICHAEL TYLOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 12/8/98

APPROVED BY: _____ TITLE: _____ DATE: _____

SOUTHERN UTE INDIAN TRIBE

Tribal Affairs Building

December 1, 1998

Michael Talovich
Key Energy Services
P.O. Box 900
Farmington, NM 87499

Re: Tribal notification of Transportation of Oil Field Waste
Liquid waste from the cleaning of a heat exchanger, non-exempt
El Paso Natural Gas, Coyote Gulch Plant, Sec. 17, T32N, R11W

Dear Mr. Fernald:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transportation of oil field waste from the above referenced site to an approved disposal site in New Mexico. It is our understanding that liquid waste will be removed to the Sunco Class 1 Water Disposal Facility.

Certification may be required by the State of New Mexico Oil Conservation Commission (NMOCD) from your company, the transporter or the generator. Transportation of this waste may be subject to other state and Federal laws.

Sincerely,

Cheryl L. Wiescamp

Cheryl L. Wiescamp
Division Head
Environmental Programs

P.O. Box 737 • 116 Capote Dr. • Ignacio, CO 81137 • Phone: 303-563-0100 • FAX: 303-563-0396

BIG A WELL SERVICE
#1 In Service
SUNCO TRUCKING

P. O. Box 900, 5651 US Hwy. 64 • Farmington, New Mexico 87499
(505) 327-4935 • (505) 327-0416

November 20, 1998

Fran King
Environmental Programs Southern Ute Tribe
P.O. Box 737
Ignacio , Colorado 81137

RE: Waste Water from Coyote Gulch Plant

Dear Fran,

Please find enclosed a Certificate of Waste Status and supporting documentation for the waste generated at El Paso Field Services Coyote Gulch Plant. Key Energy Services -Disposal Systems is requesting on the behalf of El Paso Field Services a certificate authorizing removal of their Oil Field Waste from your jurisdiction for Disposal in New Mexico.
Key Energy Services operates a Class1 Water Disposal Facility under NMOCD issued permits NM-01-0009 and UIC-CLI-005.

Please call if any additional information is required at (505) 334-6186

Best Regards:

Michael Talovich
Facility Manager
Key Energy Services

EL PASO ENERGY

November 10, 1998

Sunco Disposal Systems
708 South Tucker Ave.
Farmington, NM 87401

Dear Sirs:

You will find enclosed a Certificate of Waste Status form along with supporting documentation for waste generated during the cleaning of a heat exchanger at the El Paso Field Services Co. (EPFS) Coyote Gulch Plant. EPFS proposes to dispose of this waste liquid at the Sunco disposal well located on County Road 3500.

This waste stream contains 2.01 milligrams per liter of benzene as determined by a toxic characteristic leaching procedure (TCLP) analysis. Our review of the MSDS sheets for the cleaning compounds indicates that the source of the benzene is from the produced natural gas liquids in the heat exchanger rather than from the cleaning solution. The source of the benzene is therefore an exempt waste stream. No other hazardous characteristics were identified in the analysis.

If you need any additional information, please call me at (505) 599-2256.

Sincerely yours,

David Bays

David Bays, REM
Principal Environmental Scientist

cc w/o attachments: Max Blackwood
Joe Velasquez
cc w/attachments: Sandra Miller/Coyote Gulch Reg. file

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	Sunco Disposal Systems 345 Road 3500 Aztec, NM 87410
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):
Cotote Gulch Gas Treating Plant Attach list of originating sites as appropriate	Southern Ute Reservation – La Plata Co., Colorado
4. Source and Description of Waste	
Chemical cleaning of a gas treating plant process heat exchanger	

I, David Bays representative for:
(Print Name)

El Paso Field Services 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 waste

__X__ **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

__X__ MSDS Information
__X__ RCRA Hazardous Waste Analysis
_____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: November 10, 1998

PHILIP
ANALYTICAL SERVICES

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

• EPA/NVLAP 101262-0 • NY DOH 10903 • NJ DEP 77678
• AIHA ACCREDITATION NO. 8707 • PA DER 06-353

October 28, 1998

Don Fernald
Philip Services Corporation
4000 Monroe Road
Farmington NM 87401

Laboratory Project: 174932
Client Reference: EPFS Coyote Gulch

Dear Mr. Fernald:

The samples which were logged in on 15-OCT-98 have been analyzed as requested. The analytical results are enclosed in the attached report.

Please note that any unused portion of the samples will be disposed after 26-NOV-98, unless you have requested otherwise.

Thank you for the opportunity to provide these services to you. If you have any questions concerning this report, please contact a Client Services representative at 610/921-8833.

Sincerely,

Fred Usbeck, CIH
Director, Laboratory Services

PHILIP ANALYTICAL SERVICES

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

- EPA/NVLAP 101262-0
- AIHA ACCREDITATION NO. 8707
- NY DOH 10903
- PA DER 06-353
- NJ DEP 77678

ANALYTICAL REPORT

Client: Philip Services Corporation

Report to: Don Fernald
Philip Services Corporation
4000 Monroe Road
Farmington NM 87401

Project: 174932
Received: 13-OCT-98
Reported: 28-OCT-98

Project Description: EPFS Coyote Gulch

Sampled: 12-OCT-98 By: Jim Hooper

	RESULT	UNITS	METHOD	DATE	ANALYST
01 (Oily Liquid)					
Lab Sample: 1329700					
TCLP METALS BY ICP/CV (FILTRATION)					
TCLP Arsenic	0.061	mg/l	6010	28-OCT-98	GDB
TCLP Barium	0.203	mg/l	6010	28-OCT-98	GDB
TCLP Cadmium	< 0.050	mg/l	6010	28-OCT-98	GDB
TCLP Chromium	0.085	mg/l	6010	28-OCT-98	GDB
TCLP Lead	< 0.050	mg/l	6010	28-OCT-98	GDB
TCLP Mercury	< 0.001	mg/l	7470	19-OCT-98	JLP
TCLP Selenium	< 0.050	mg/l	6010	28-OCT-98	GDB
TCLP Silver	< 0.050	mg/l	6010	28-OCT-98	GDB
VOLATILE ORGANICS (TCLP)			8260	22-OCT-98	SWH
Benzene	2.01	mg/l			
Carbon tetrachloride	< 0.05	mg/l			
Chlorobenzene	< 0.05	mg/l			
Chloroform	< 0.05	mg/l			
1,4-Dichlorobenzene	< 0.05	mg/l			
1,2-Dichloroethane	< 0.05	mg/l			
1,1-Dichloroethene	< 0.05	mg/l			
Methyl ethyl ketone	< 0.5	mg/l			
Tetrachloroethene	< 0.05	mg/l			
Trichloroethene	< 0.05	mg/l			
Vinyl chloride	< 0.05	mg/l			
SEMIVOLATILES (TCLP)			8270	19-OCT-98	JDS
2,4-Dinitrotoluene	< 0.2	mg/l			
Hexachlorobenzene	< 0.2	mg/l			
Hexachlorobutadiene	< 0.2	mg/l			
Hexachloroethane	< 0.2	mg/l			
Nitrobenzene	< 0.2	mg/l			
Pyridine	< 0.2	mg/l			
2-Methylphenol (o-Cresol)	< 0.2	mg/l			
3-Methylphenol (m-Cresol)	< 0.2	mg/l			

PHILIP ANALYTICAL SERVICES

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

• EPA/NVLAP 101262-0 • NY DOH 10903 • NJ DEP 77678
• AIHA ACCREDITATION NO. 8707 • PA DER 06-353

Client: Philip Services Corporation
Project: 174932

	RESULT	UNITS	METHOD	DATE	ANALYST
01 (Oily Liquid)					
Lab Sample: 1329700 - continued					
4-Methylphenol (p-Cresol)	< 0.2	mg/l			
Pentachlorophenol	< 1.3	mg/l			
2,4,5-Trichlorophenol	< 0.2	mg/l			
2,4,6-Trichlorophenol	< 0.2	mg/l			
TCLP LEACHATE ANALYSIS					
pH (initial)	7.00	pH units	9040	15-OCT-98	GLB
pH (final)	7.00	pH units	9040	15-OCT-98	GLB

< Indicates less than the limit of quantitation.

PHILIP ENVIRONMENTAL

Chain of Custody Record

174932

4000 Monroe Road
Farmington, NM 87401
(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2314

Project Name: EPFS Coyote Gulch

Project Number: Phase . Task

Samplers: Jim Hooper

Laboratory: Name: PSC

Location: Reading, PA

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle: TCLP (Pest + Herb)	Comments
01	10/12/98		liquid	3		VOA (via VTSR 10/ 2.e (A) (glass)
↓	↓		"	2		liter plastic
↓	↓		"	3		liter Amber
						174927

Relinquished by:

Signature	Date	Time
[signature]	10/12/98	4:25

Received By:

Signature	Date	Time
[signature]	10/13/98	0930

Samples Iced: ☑ Yes ☐ No

Carrier: UPS

Airbill No.

Preservatives (ONLY for Water Samples)

- ☐ Cyanide ..... Sodium hyroxide (NaOH)
- ☐ Volatile Organic Analysis ..... Hydrochloric acid (HCl)
- ☐ Metals ..... Nitric acid (HNO_3)
- ☐ TPH (418.1) ..... Sulfuric acid (H_2SO_4)
- ☐ Other (Specify) _____
- ☐ Other (Specify) _____

Shipping and Lab Notes:

Normal TAT

Fax to Don Fruend 505-326-2388

RODUCT: AMMONIUM BIFLUORIDE

ORDER NO:
PROD NO :

AN WATERS & ROGERS INC. , A ROYAL PAKHOED COMPANY (425)889-3400
100 CARILLON POINT , KIRKLAND , WA 98033

---------- EMERGENCY ASSISTANCE ----------

FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL - CHEMTREC
(800)424-9300

****
PRODUCT IDENTIFICATION
****

RODUCT NAME: AMMONIUM BIFLUORIDE

SDS #: P1047VS

ATE ISSUED: 02/21/91

SSUED BY: 008019

****
MANUFACTURER'S MSDS
****

roduct: AMMONIUM BIFLUORIDE

****
SECTION I
****

ommon Name : AMMONIUM ACID FLUORIDE
hemical Name : AMMONIUM BIFLUORIDE
ormula : NH4FHF
roduct CAS # : 1341-49-7

RODUCT: AMMONIUM BIFLUORIDE

ORDER NO:
PROD NO :

MERGENCY PHONE #: 1-800-424-9300

SECTION II HAZARDOUS INGREDIENT INFORMATION

INGREDIENT	% Wt.	PEL-OSHA	TLV-ACGIH
MMONIUM BIFLUORIDE			
AS #: 1341-49-7	98.9	2.5 mg/m3 as F 35 ppm as NH3 STEL	2.5 mg/m3 as F 25 ppm as NH3

NGREDIENT HAZARD STATEMENT

auses eye and skin burns.
auses skin and respiratory tract irritation.
armful if swallowed.
nless otherwise noted, all values are reported as 8-hour Time-Weighted
verages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to
he 1989-90 Standards. All OSHA PELs refer to 29 CFR Part 1910
ir Contaminants: Final Rule, January 19, 1989.

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

oiling Point: 239.5 Deg. C
pecific Gravity (H2O=1): 1.503
elting Point: 126.2 Deg. C
apor Pressure (mm Hg): Not applicable
apor Density (Air=1): Not applicable
vaporation rate (Butyl Acetate=1): Not applicable
Solubility/Water: 58.3 g/100 g water

PPEARANCE AND ODOR
hite translucent flakes; ammonia odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

lash Point: Not available
uto-Ignition: Not available
EL: Not available
EL: Not available

RODUCT: AMMONIUM BIFLUORIDE

ORDER NO:
PROD NO :

FPA HAZARD CLASSIFICATION
lealth: 3 Flammable: 0 Reactivity: 0

MIS HAZARD CLASSIFICATION
lealth: 3* Flammable: 0 Reactivity: 0

XTINGUISHING MEDIA
lse carbon dioxide or chemical foam.

PECIAL FIRE FIGHTING PROCEDURES
lear positive-pressure self-contained breathing apparatus.

PECIAL FIRE AND EXPLOSION HAZARDS
lot a fire or explosion hazard. However, toxic and corrosive fluoride
ompounds may be released in a fire situation.

****
SECTION V REACTIVITY DATA
****

tability: Generally considered stable.
void: Temperatures above 400 Deg. F.

NCOMPATIBILITY (Materials to Avoid)
trong acids, alkalies, chlorine, cyanides, sulfides.

AZARDOUS DECOMPOSITION OR BY-PRODUCTS
ulfur oxides, ammonia and hydrogen fluoride. Will form hydrofluoric acid on
ontact with strong acids; ammonia on contact with alkalies.

olymerization: Polymerization is not expected to occur.
void: Not applicable.

****
SECTION VI HEALTH HAZARD DATA
****

OUTES OF ENTRY
yes? YES Skin? YES Inhalation? YES Ingestion? YES

FFECTS OF OVEREXPOSURE

YE CONTACT causes burns.

KIN CONTACT causes severe irritation and fluoride-like burns which may not be
mmediately evident.

NHALATION causes severe irritation to the upper respiratory tract.

NGESTION causes irritation of the gastrointestinal tract, nausea, vomiting nd diarrhea.

ARCINOGENICITY
TP? NO IARC? NO OSHA? NO

HRONIC HEALTH HAZARDS
xposure to FLUORIDES over years may produce embrittlement and decalcification f bones, and increased calcification of ligaments and vertebrae resulting in pinal stiffness (fluorosis).

EDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
ay aggravate existing respiratory and/or skin ailments.

MERGENCY AND FIRST AID PROCEDURES

YE CONTACT: Immediately flush with plenty of water for at least 30 minutes. o NOT use Zephiran Chloride solutions on eyes. Call a physician.

KIN CONTACT: Immediately flush with cold water for at least 15 minutes. Use lkaline soap if available. If irritation occurs, immerse and soak affected rea in 0.13% (1:750) iced, aqueous Zephiran Chloride solution for 30-60 inutes (saturated compresses can be used if area can't be immersed) and call physician.

LOTHING: Remove contaminated clothing and wash before reuse. Destroy ontaminated shoes.

NHALATION: Remove to fresh air. If breathing is difficult, give oxygen. Call physician.

NGESTION: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of ater. Call a physician immediately. Never give anything by mouth to an nconscious person.

****
SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE
****

?A Waste #: D002
J #: UN 1727
)T Classification: RQ, Corrosive material, Ammonium Hydrogen Fluoride, solid

TEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

---

ontain spillage and scoop up or vacuum. Avoid dusting. Notification of the ational Response Center (800/424-8802) may be required. Refer to EPA, DOT and pplicable state and local regulations for current response information.

t is recommended that each user establish a spill prevention, control and ountermeasure plan (SPCC). Such plan should include procedures applicable to roper storage, control and clean-up of spills, including reuse or disposal as ppropriate (see waste disposal method, below).

ASTE DISPOSAL METHOD
ederal, state and local disposal laws and regulations will determine the roper waste disposal procedure. All waste materials should be reviewed to etermine the applicable hazards (testing may be necessary). Disposal equirements are dependent on the hazard classification and will vary by ocation and the type of disposal selected. Some waste materials are amenable o recycle/reuse.

RECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
ash thoroughly after handling.
eep container closed.
tore in a cool, dry location away from incompatible materials.

ERSONNEL SAMPLING PROCEDURE
or FLUORIDE COMPOUNDS: Refer to NIOSH Manual of Analytical Methods, 3RD dition, Volume 1, Method 7902.

****

SECTION VIII CONTROL MEASURES

****

ESPIRATORY PROTECTION
NIOSH/MSHA-approved respirator as necessary.

ENTILATION
eneral; local exhaust ventilation as necessary to control any air ontaminants to within their TLVs during the use of this product.

ROTECTIVE EQUIPMENT
hemical goggles; full face shield.
rotective clothing; neoprene gloves, boots, apron or acid-resistant rubber uit, hat.

ORK/HYGIENE PRACTICES
o not breathe dust.
o not get in eyes, on skin, or on clothing.
se only with adequate ventilation.

****

RODUCT: AMMONIUM BIFLUORIDE

ORDER NO:
PROD NO :

SECTION IX FEDERAL AND STATE REGULATIONS

ARA HAZARD CATEGORIES

MMEDIATE (Acute) Health Hazard: YES
ELAYED (Chronic) Health Hazard: YES
IRE Hazard: NO
EACTIVITY Hazard: NO
udden Release of PRESSURE: NO

ARA SECTION 313 NOTIFICATION
his product does not contain toxic chemicals subject to the reporting
equirements of Section 313 of Title III of the Superfund Amendments and
eauthorization Act of 1986 and 40 CFR Part 372.

FOR ADDITIONAL INFORMATION

CONTACT: MSDS COORDINATOR VAN WATERS & ROGERS INC.
DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400

10/07/98 09:53 PRODUCT: CUST NO: ORDER NO:

NOTICE

* VAN WATERS & ROGERS INC. ("VW&R"), A ROYAL PAKHOED COMPANY, EXPRESSLY

ISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR

PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED

EREIN, AND SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR INCIDENTAL OR

ONSEQUENTIAL DAMGAGES. **

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE
ANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS
ELIEVED TO BE ACCURATE, VW&R MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR
FFICIENCY. CONDITIONS OF USE ARE BEYOND VW&RS CONTROL AND THEREFORE USERS
RE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO
ETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY
SSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM

RODUCT: AMMONIUM BIFLUORIDE

ORDER NO:
PROD NO :

HE PUBLICATION OR USE OF, OR RELIANCE UPON , INFORMATION CONTAINED HEREIN.
HIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT
ELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER
ROCESS.

* * * E N D O F M S D S * * *

MATERIAL SAFETY DATA SHEET

HUNTSMAN

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT

PRODUCT CODE AND NAME	:	*N95 SURFONIC® N-95*
DATE ISSUED	:	12/5/96
DATE PRINTED	:	1/29/97

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

PRODUCT CODE AND NAME

N95 SURFONIC® N-95

Chemical Name and/or Family or Description:

Nonionic surfactant - alkylphenol ethoxylate

COMPANY INFORMATION

Huntsman Petrochemical Corporation
P.O. Box 27707
Houston, TX 77227-7707

TELEPHONE NUMBERS
Transportation Emergency
Company: (409) 727-0831
CHEMTREC: (800) 424-9300
Medical Emergency: (409) 722-9673 (24 Hour)
General MSDS Assistance: (713) 235-6432
Technical Information: (512) 459-6543

2. COMPOSITION AND INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

Product and/or Component(s) Carcinogenic According to:

OSHA IARC NTP OTHER NONE X

Composition:

Chemical Name	CAS Number	Exposure Limits	Range in %
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl -omega-hydroxy-	9016-45-9		100

THIS PRODUCT IS CONSIDERED HAZARDOUS ACCORDING TO OSHA (1910.1200).

PRODUCT CODE AND NAME	:	*N95 SURFONIC® N-95*
DATE ISSUED	:	*12/5/96*
DATE PRINTED	:	*1/29/97*
OMPANY	:	*HUNTSMAN PETROCHEMICAL CORPORATION*

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance:

Pale liquid

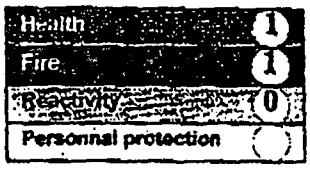
Odor:

Slight odor

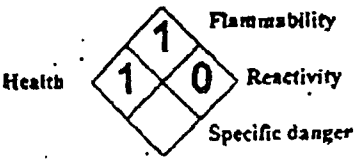
WARNING STATEMENT

CAUTION ! MAY CAUSE EYE IRRITATION

Hazardous Material Information System (United States)



National Fire Protection Association NFPA (United States)



POTENTIAL HEALTH EFFECTS

Primary Route of Exposure

Eye X Skin X Inhalation X Ingestion

Effects of Overexposure

Acute:

Eyes: May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

Skin: Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact, see other effects, below, and Section 11 for information regarding potential long term effects.

Inhalation: Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Ingestion: May cause abdominal discomfort, nausea, and diarrhea.

Sensitization Properties: Unknown

Chronic:

No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.

Medical Conditions Aggravated by Exposure:

There is no evidence that this product aggravates an existing medical condition.

Other Remarks:

None

PRODUCT CODE AND NAME	:	N95 SURFONIC® N-95
DATE ISSUED	:	12/6/96
DATE PRINTED	:	1/29/97
COMPANY	:	HUNTSMAN PETROCHEMICAL CORPORATION

4. FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin:

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:

If patient is conscious and can swallow, give two glasses of water (16 oz.) Induce vomiting as directed by medical personnel. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

Inhalation:

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Other Instructions:

None

5. FIRE-FIGHTING MEASURES

Ignition Temperature - AIT (degrees C):

Not applicable.

Flash Point (degrees C):

237.8 (460 F) (PMCC)

Flammable Limits % (Lower-Upper):

Lower: Not Determined
Upper: Not Determined

Recommended Fire Extinguishing Agents And Special Procedures:

Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards:

None

Special Protective Equipment for Firefighters:

Wear full protective clothing and positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:

Contain spill if possible, contain with absorbent materials such as clay or soil, and shovel up. Avoid skin and eye contact.

PRODUCT CODE AND NAME : N95 SURFONIC® N-95
DATE ISSUED : 12/5/96
DATE PRINTED : 1/29/97
COMPANY : HUNTSMAN PETROCHEMICAL CORPORATION

7. HANDLING AND STORAGE

Precautions to be Taken in

Handling:

Minimum feasible handling temperatures should be maintained.

Storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)

Eye/Face Protection:

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:

Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:

Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

Exposure Limit for the Total Product:

None established for product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Pale liquid

Odor:

Slight odor

Boiling Point (degrees C):

Not determined.

Melting/Freezing Point (degrees C):

5 (41 F)

Specific Gravity (water=1):

1.06

Vapor Pressure:

PRODUCT CODE AND NAME	:	*N95 SURFONIC® N-95*
DATE ISSUED	:	*12/5/96*
ATE PRINTED	:	*1/29/97*
MPANY	:	HUNTSMAN PETROCHEMICAL CORPORATION

< 1 mmHg at 20 C (68 F)

Viscosity:

110 cSt at 37.7 C (100 F)

VOC Content:

Not Determined

Vapor Density (Air=1):

>1

Solubility in Water (%):

>10

Other:

None

10. STABILITY AND REACTIVITY

This Material Reacts Violently With:

Air Water Heat Strong Oxidizers Others None of these X

Comments:

None

Products Evolved When Subjected to Heat or Combustion:

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning. Heating in air may produce irritating aldehydes, acids, and ketones.

Hazardous Polymerizations:

DO NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

Oral:
LD50 3.31 g/kg (rat) slightly toxic
Inhalation:
Believed to be practically non-toxic
Dermal:
LD50 > 2.00 g/kg (rabbit) practically non-toxic

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

Skin:
(Draize) 1.04 /8.0 (rabbit) slightly irritating
Eyes:
(Draize) 14.40 /110 (rabbit) slightly irritating
Sensitization:
Not determined.

Other:

This product may contain residual (less than 100 ppm) concentrations of ethylene oxide. Ethylene oxide causes tumors in laboratory animals.

PRODUCT CODE AND NAME	:	*N95 SURFONIC® N-95*
DATE ISSUED	:	*12/5/96*
DATE PRINTED	:	*1/29/97*
COMPANY	:	*HUNTSMAN PETROCHEMICAL CORPORATION*

12. DISPOSAL CONSIDERATIONS:

Waste Disposal Methods:

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous 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 hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Remarks:

None

13. TRANSPORT INFORMATION

Transportation

DOT:

Proper Shipping Name:
Not regulated

Hazard Class:
Not regulated

Identification Number:
Not regulated

Packing Group:
Not regulated

Label Required:
Not regulated

Depending on container size, spills of this product may require reporting under SARA 304 and/or CERCLA 102(A) regulations. Please refer to Sections 2 and 14 of MSDS for composition and component RQ information.

IMDG

Proper Shipping Name:
Not evaluated

ICAO

Proper Shipping Name:
Not evaluated

TDG

Proper Shipping Name:
Not regulated

Hazard Class:
Not regulated

Identification Number:
Not regulated

Label Required:
Not regulated

PRODUCT CODE AND NAME	:	*N95 SURFONIC® N-95*
DATE ISSUED	:	*12/5/96*
DATE PRINTED	:	*1/29/97*
COMPANY	:	*HUNTSMAN PETROCHEMICAL CORPORATION*

14. REGULATORY INFORMATION

Federal Regulations:

SARA Title III:

Section 302/304 Extremely Hazardous Substances

Chemical Name	CAS Number	Range in %	TPQ	RQ
Residual ethylene oxide (typical)	75-21-8	0.001	1000	10

Section 311 Hazardous Categorization:

Acute X Chronic Fire Pressure Reactive N/A

Section 313 Toxic Chemical

Chemical Name	CAS Number	Concentration
Glycol ethers (fraction of product matching EPA definition)		1.00-2.99

CERCLA 102(a)/DOT Hazardous Substances:

Chemical Name	CAS Number	Range in %	RQ
Glycol ethers (fraction of product matching EPA definition)		1.00-2.99	1
Residual ethylene oxide (typical)	75-21-8	0.001	10

States Right-to-Know Regulations:

Chemical Name	State Right-to-know
None.	

State list: CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan), LA (Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pennsylvania), RI (Rhode Island)

California Prop. 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name	CAS Number
Residual ethylene oxide (typical)	75-21-8

INTERNATIONAL REGULATIONS:

TSCA Inventory Status:

This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

WHMIS Classification:

Not regulated

Canadian Inventory Status:

This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS Inventory Status:

Not determined

Australian Inventory Status:

This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

Japan Inventory Status:

Not determined

PRODUCT CODE AND NAME	:	*N95 SURFONIC® N-95*
DATE ISSUED	:	*12/5/96*
DATE PRINTED	:	*1/29/97*
MPANY	:	*HUNTSMAN PETROCHEMICAL CORPORATION*

15. ENVIRONMENTAL INFORMATION

Aquatic Toxicity:

LC50-96hr Aquatic toxicity rating is believed to be > 1.00 - 10.00 ppm moderately toxic

Mobility:

Not determined.

Persistence and Biodegradability:

Not determined.

Potential to Bioaccumulate:

Not determined.

Remarks:

None

16. OTHER INFORMATION 12/5/96

Ethoxylated products may contain residual amounts of ethylene oxide (EO) which can accumulate in the container headspace and be released into the ambient environment. This process is enhanced when the product is agitated, as during tank car loading and unloading, and blending operations. Ethylene oxide causes tumors in laboratory animals. The Occupational Safety and Health Administration (OSHA) Permissible Exposure Level (PEL) for EO is 1 ppm for an eight-hour time weighted average exposure. The standard regulates occupational exposure to EO from all sources, ...ding products containing residual EO. It is the responsibility of the employer to comply with OSHA ethylene oxide ...dard (29 CFR 1910.1047).

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF HUNTSMAN'S PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL HUNTSMAN PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEEETS FOR ALL HUNTSMAN PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE APPLICABILITY OR EFFECTS OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. HUNTSMAN DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

...ercedes: 5/1/96

The following section has been revised: 13

...te Issued: 12/5/96.

Verified by Phillip B. Valkovich.

...uiries regarding MSDS should be directed to:

Huntsman Petrochemical Corporation
Coordinator, Product Safety
P.O. Box 27707
Houston, TX 77227-7707

Material Safety Data Sheet

Red Bird Service
205 Western Ave. Osgood, IN 47037
Phone 800-428-3502 OR FOR EMERGENCY,
Call Chemtrec 24-hours a day...800-424-9300

Product: HYDROCHLORIC ACID 50% V/V
Internal ID: H-140

MSDS No: RBS / H-140
Revision: 4
Date: September 16, 1996

National Paint and Coatings Association

Hazardous Material Identification System

HEALTH HAZARD	3 - Serious
FLAMMABILITY HAZARD	0 - Minimal
REACTIVITY HAZARD	0 - Minimal
PERSONAL PROTECTION	SEE SECTION 8

SECTION I. MATERIAL IDENTIFICATION

Trade/Material Name: HYDROCHLORIC ACID 50% V/V

Description: A chemical mixture.

Cautions: Hydrochloric acid is highly corrosive and causes serious skin and eye burns as well as acute and chronic respiratory problems.

Manufacturer: Red Bird Service

SECTION II. INGREDIENTS AND HAZARDS

Ingredient Name:	CAS Number:	Percent:	Exposure Limits:
Hydrochloric acid * (***)	7647-01-0	50	1991 OSHA PEL Ceiling: 5 ppm (7 mg/m3) 1991-92 ACGIH TLV Ceiling: 5 ppm (7.5 mg/m3) 1990 NIOSH REL Ceiling: 5 ppm (7 mg/m3) 1990 DFG (Germany) MAK Ceiling: 5 ppm (7 mg/m3) Category 1: local irritants Peak Exposure Limit: 10 ppm, 5 min momentary value/8 per shift 1985-86 Toxicity Data** Human, inhalation, LCLo: 1300 ppm/30 min; toxic effects not yet reviewed Rabbit, oral, LD50: 900 mg/kg; toxic effects not yet reviewed
Water	7732-18-5	50	Rat, inhalation, TCLo: 450 mg/m3/1 hr (1 day prior to

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INGREDIENTS AND HAZARDS continued from page 1

pregnancy) produced fetotoxicity (except death) & specific developmental abnormalities (homeostasis). Rabbit, eye: 100 mg rinse caused mild irritation. 1990 IDLH Level 100 ppm

* Trace impurities include ammonia, arsenic, iron, sulfate, free Cl-, and heavy metals.
** See NIOSH, RTECS (MW4025000), for additional irritation, reproductive, and toxicity data.

*** This chemical is subject to section 313 reporting.

This chemical is TSCA Referenced.

SECTION III. PHYSICAL DATA

Appearance & Odor: Colorless liquid that fumes in air and has a strong pungent odor. Can be slightly yellow from traces of iron, chlorine, or organic matter.

Boiling point: ca 63°C
Water solubility (%): Complete
Vapor density (air=1): ca 1

Evaporation rate: BuAc=1: Greater than 1
Specific gravity (H2O=1): ca 1.09
% volatile by volume: 100

Odor Threshold: 0.1 to 5 ppm

Other Solubilities: Soluble in alcohol, benzene, and ether; insoluble in hydrocarbons.

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point (method): Noncombustible Limits: LEL %: None reported* UEL %: None reported*

NFPA Fire Hazard Symbol Codes: Flammability: 0 Health: 2 Reactivity: 0 Special: --

Extinguishing Media: Use extinguishing agents suitable for surrounding fire. Autoignition Temp: None reported

Unusual fire or explosion hazards: * Extreme heat or contact with many metals liberates hydrogen gas which has explosion limits of 4 to 75%.

Special fire-fighting procedures: Because fire may produce toxic thermal

Material Safety Data Sheet

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MSDS No: RBS / H-140
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Date: September 16, 1996

HEALTH HAZARD INFORMATION continued from page 3

Chronic effect(s): Repeated or prolonged exposure can cause dermatitis, conjunctivitis, gastritis, photosensitization, tooth erosion, and repeated exposure to mists from heated-metal pickling solutions can cause nose and gum bleeds, ulceration of oral or nasal mucosa, and "renders facial skin so tender that shaving is painful."(133)

First aid:

Eye contact: Do not allow victim to rub or keep eyes tightly shut. Gently lift eyelids and flush immediately and continuously with flooding amounts of water until transported to an emergency medical facility. Consult a physician immediately.

Skin contact: Quickly remove contaminated clothing. Rinse with flooding amounts of water for at least 15 min. Treat skin with a 5% triethanolamine solution. For reddened or blistered skin, consult a physician.

Inhalation: Remove exposed person to fresh air and support breathing as needed.

Ingestion: Never give anything by mouth to an unconscious or convulsing person. Contact a poison control center. Unless the poison control center advises otherwise, have that conscious and alert person drink 1 to 2 glasses of water to dilute. Do not induce vomiting!

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Consider a chest x-ray in acute overexposure. Gastric lavage with 5% sodium bicarbonate may be helpful.

SECTION VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill / Leak procedures: Notify safety personnel, isolate and ventilate area, deny entry, and stay upwind. Neutralize spills with crushed limestone, soda ash, lime, or sodium bicarbonate. After neutralizing, take up small spills with earth, sand, vermiculite, or other absorbent, noncombustible material and place in suitable containers for disposal; flush large spills to containment area and reclaim (if possible) or await disposal. Follow applicable OSHA regulations (29 CFR 1910.120).

Waste management / Disposal: Neutralize to between 5.5 & 8.5 before disposal. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

OSHA Designations
Listed as an Air Contaminant (29 CFR 1910.1000, Table Z-1-A)
EPA Designations
Listed as a RCRA Hazardous Waste (40 CFR 261.23, 0.01N solution or higher): No. D002, Characteristic of corrosivity
Listed as a CERCLA Hazardous Substance* (40 CFR 302.4): Final Reportable Quantity (RQ), 5000 lb (2270 kg) [* per CWA, Sec. 311 (b)(4)]
SARA Extremely Hazardous Substance (40 CFR 355), TPQ: Not listed
Listed as a SARA Toxic Chemical (40 CFR 372.65)

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SECTION IX. SPECIAL PRECAUTIONS

Storage segregation: Prevent physical damage to containers. Store in a cool, dry, well-ventilated area on a cement floor away from direct sunlight and heat sources. Use decanting pumps or pouring frames to minimize spillage during loading and unloading operations.

Engineering controls: To reduce potential health hazards, use sufficient dilution or local exhaust ventilation to control airborne contaminants and to maintain concentrations at the lowest practical level. HCl should be manufactured in closed systems. Pay close attention to leak detection. Aqueous scrubbers are used to control hydrogen chloride emissions from vent stacks and other sources. Workers shouldn't enter tanks previously containing HCl until they have been cleaned.

Other precautions: Administrative Controls: Consider preplacement and periodic medical exams of exposed workers with emphasis on the eyes, skin, and respiratory tract. Pulmonary function tests (FEV, FVC) are useful in determining lung disorders. Conduct difficult operations in fume hoods.

DOT Packing Group: II

DOT Class: 8 (Hydrochloric Acid Solution) UN Register: UN1789
Data source code(s): 26, 73, 89, 100, 101, 103, 124, 126, 127, 132, 133, 136, 139, 148, 149, 153, 159, 162, 163, 164, 167, 168, 171, 174, CFR, RBS(rev.)

Prepared/revised by: Gene C. Feith

September 16, 1996

Judgements as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Red Bird Service extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for the consequences of its use.

• Chemical Sales and Distribution

PAR SERVICES, INC

6325 Constitution Drive Fort Wayne. IN 46804

Philip 065

CONCENTRATED CLEANER 2001

CC2001 is unique. It is a versatile, multi functional product that gets outstanding results on most types of tough cleaning chores. Formulated with enough cleaning power to handle locomotives and roundhouse floors, but without the high alkaline or volatile organic content of popular national brands.

- CC2001 removes grease and oils without high alkalinity/pH or solvents. The proprietary blend of surfactant self-emulsifies and releases oil and grease to float on top of the water phase. This allows for materials to be treated or disposed of separately.
- It removes exhaust stains and soot quickly, without leaving shadow stains.
- CC2001 dissolves away road film when used as a dilute pressure wash solution.
- It exhibits excellent rinse ability, and contains dispersing polymers to prevent redisposition of loosened soils.
- CC2001 can be used effectively with hard water since it contains ingredients which tie up hardness compounds.

In addition, it is.....

Biodegradable
Non-abrasive
Non-flammable
Phosphate free
Not classified as hazardous
Very low in volatile organic content

Post-it® Fax Note 7671	Date 9-28-98	# of pages ▶ 5
To Don Fernald	From Wendy Herrendeen	
Co./Dept. Philip Services	Co. PAR SERVICES	
Phone #	Phone #	
Fax # 505-326-2388	Fax #	

Phone: (219) 436-1122

PAR

• Chemical Sales and Distribution

PAR SERVICES, INC

6325 Constitution Drive Fort Wayne, IN 46804

COMPARATIVE TESTING

We developed CC2001 relative to the best products on the market. To do this, we surveyed consumers as to what attributes of these products were the best and why. From the experiment, we came up with three products (all national brands) that we used as performance standards for CC2001 throughout its development. We wanted CC2001 to be at the top of our three comparison standards in every major application area.

As a final trial, we conducted a blind test involving CC2001 and the other three products in a series of tough cleaning jobs, including the following:

- Dirty commercial garage shop and warehouse floors.
- Truck and automobile engines and engine parts
- Commercial box trailers stained by diesel exhaust and soot and coated with road film.
- Shop bench tops and walls.
- Factory machinery.

In every test category, CC2001 was judged to have done the best job, either as the obvious top performer or as one of two top performers with indistinguishable results. CC2001 undeniably demonstrated its superior versatility in terms of its ability to cut through grease, emulsify oils, lift dirt, grime and soot, prevent redisposition of soils and rinse cleanly over a wide variety of conditions.

• Chemical Sales and Distribution

PAR SERVICES, INC

6325 Constitution Drive Fort Wayne. IN 46804

I. Identification.

Product Name: CC2001
Product Description: General Purpose, Heavy Duty Cleaner/Degreaser.
Chemical Name: Mixture.
Chemical Family: Moderately alkaline aqueous solution.
Formula: Mixture.
CAS Registry: Mixture
DOT Identification No: Mixture.
DOT Shipping Name: Mixture.

II. Typical Composition.

Material	CAS NO	% WT	OSHA Pel
POTASSIUM HYDROXIDE	1310-58-3	0-5	2 mg/m^3 (CEILING)
TETRAPOTASSIUM PYROPHOSPHATE	7320-34-5	2-5	NONE ESTABLISHED
SODIUM NITRILOTRIACETATE	18662-53-8	2-5	NONE ESTABLISHED
PROPRIETARY NON REGULATED SURFACTANT	----------	5-15	NONE ESTABLISHED

III. Physical Data

Appearance and odor. Clear, pink liquid with no significant odor.
Boiling Point (760 mm Hg): 220 Degrees F plus/minus 2 Degrees.
Specific Gravity (water = 1): 1:03.
Percent Volatile by Volume: NIL
Vapor Pressure (at 20 Degrees C): 20 mm Hg.
Evaporation Rate (Butyl Acetate =1): <1.
Solubility in Water (% by wt): 100%
pH (10% Solution): 10-11

IV. Fire and Explosion Hazard Data.

Flash Point: Not Applicable
Autoignition Temperature: Not Available
Flammable Limits in air (% by volume): Not Applicable.
Special Fire Fighting Procedure: Non Required.

• Chemical Sales and Distribution

PAR SERVICES, INC

6325 Constitution Drive Fort Wayne, IN 46804

V. Spills and Disposal .

Spill or leakage procedures: Recover usable material by convenient method: residual may be removed by wipe or wet mop. If necessary, unrecoverable material may be washed to drain with large quantities of water:
Wast disposal method: Sanitary landfill or incinerate in approved facilities in accordance with local state and federal regulations.

VIII. Personal Protection Information.

Eye Protection. Caution, including reasonable eye protection, should always be used to avoid eye contact where splashing may occur.
Skin Protection: Where skin contact may occur, chemical-imperious gloves should be worn; rinse completely if skin contact occurs.
Ventilation: Local exhaust is recommended.
Work and Hygienic Practices: No special requirements. Wash or rinse hands before touching eyes or contact lenses.

THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY OTHER PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONE'S SELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE. NEITHER THE SELLER OR PREPARER MAKES ANY WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE INFORMATION PRESENTED.

• Chemical Sales and Distribution

PAR SERVICES, INC

6325 Constitution Drive Fort Wayne, IN 46804

USE INSTRUCTIONS

CONCENTRATED CLEANER 2001can be used full strength or through a full range of dilutions. Although each cleaning job has its own unique aspects, the following general guidelines should be of assistance in helping you find a good starting point. Dilution ranges are given as WATER:CONCENTRATED CLEANER.

APPLICATION	DILUTION RATIO WATER:CLEANER	EXAMPLES
HEAVY DEGREASING	FULL STRENGTH	GREASY/OILY FACTORY EQUIPMENT, GRIMY ENGINES, OIL DELIVERY VEHICLES, VERY DIRTY AREA OF SHOP FLOORS, EARTH MOVING EQUIP., ETC.
GENERAL DEGREASING AND HEAVY CLEANING	3:1 TO 10:1	TRUCKS/TRAILERS, MACHINERY, SHOP FLOORS/WALLS, CONSTRUCTION EQUIP., PARTS CLEANING, ETC.
GENERAL PURPOSE CLEANING	10:1 TO 30:1	ROUTINE WORK SURFACE CLEANING, FLOOR CLEANING, EQUIP. CLEANING, PARTS PREPARATION, ETC.
JANITORIAL CLEANING AND PRESSURE WASHING	20:1 TO 40:1	APPLIANCES, TOILETS, GENERAL VEHICLE WASHING, ETC.
GLASS CLEANER	100:1 TO 150:1	WINDOWS, MIRRORS, WINDSHIELDS, ETC.

MATERIAL SAFETY DATA SHEET

Printed 08-08-1997 Page 1

CRONOX(R) 230

Caution Code 3-2-0

"CRONOX" is a registered trademark of Baker Performance Chemicals Incorporated
MSDS ID: 4966011

1 - SECTION I - IDENTITY

AQUANESS CHEMICAL
A Division of Baker Petrolite
A Baker Hughes company
3900 ESSEX LANE, P.O. BOX 27714
HOUSTON, TX 77227-7714

EMERGENCY TELEPHONE NUMBERS:
CHEMTREC: 1-800-424-9300
BPCI: 1-800-231-3606
TELEPHONE NUMBER FOR INFORMATION:
713-599-7400

CHEMICAL NAME: Complex Mixture CHEMICAL FAMILY: Proprietary

2 - SECTION II - REGULATORY CLASSIFICATION

ENVIRONMENTAL	OCCUPATIONAL	TRANSPORTATION
RQ= 401 Gallons (Ethylene Glycol)	OSHA Non-Hazardous: No	Not Regulated: No
TPQ= None	OSHA Hazardous: Yes	Regulated: Yes
	X Acute	Flammable Liquid,
SARA 313: Yes	X Chronic	N.O.S., (Contains
Ethylene Glycol <17%	X Fire	Isopropanol, Propargyl
Naphthalene <3%	NA Pressure	Alcohol), 3, UN 1993.
Propargyl Alcohol <17%	NA Reactive	III

The components of this product are listed on the TSCA inventory.

3 - SECTION III - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS #	PEL(OSHA)* TWA	PEL(OSHA)* STEL	PEL(OSHA)* A/L	TLV(ACGIH)* TWA	TLV(ACGIH)* STEL	MPG* EXC. TWA
Aromatic Naphtha (Proprietary)	64742-94-5			None Published			
Propargyl Alcohol (Skin) (<17%)	107-19-7	1	None		1	None	
Ethylene Glycol (<17%)	107-21-1	50(C)			19.4(C) Aerosol		
Isopropanol (<6%)	67-63-0	400	500		400	500	
Naphthalene (<3%)	91-20-3	10	15		10	15	

*ppm unless otherwise indicated; (C) denotes ceiling limit; (S) or (Skin) indicates that skin absorption may make a significant contribution to overall exposure.

4 - SECTION IV - PHYSICAL & CHEMICAL PROPERTIES

Specific Gravity @60F: 0.937 (H2O=1)
pH:
5% of Product: 7.0

MATERIAL SAFETY DATA SHEET

CRONOX(R) 230

Caution Code 3-2-0

"CRONOX" is a registered trademark of Baker Performance Chemicals Incorporated

MSDS ID: 4565011

4 - SECTION IV - PHYSICAL & CHEMICAL PROPERTIES (continued)

Density (lbs/gallon): 8.16 Viscosity (Method): Not Determined

Vapor Density (Air=1): >1 Appearance and Odor: Dark liquid with sweet odor.

Solubility: Insoluble in water Stability: Stable

Freezing Point: Not Determined Pour Point: Not Determined

Flash Point (Method): 108F (TCC) Percent Organic Compound: Not Determined

Boiling Point: Not Determined Vapor Pressure: Not Determined

Conditions to Avoid: Oxidizers, heat, sparks, or open flame.

Haz. Decomp. Prod.: Carbon monoxide; carbon dioxide; oxides of nitrogen.

Hazardous Polymerization: Will not occur

FIRE CONTROL PROCEDURES: Use foam, dry chemical, CO2, water fog or spray. Do not enter a fire area without proper protective equipment, including NIOSH/MSHA approved, self-contained breathing apparatus. Cool exposed containers with water spray. Avoid vapors.

FIRE HAZARDS:
Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point.
Vapors can travel to source of ignition and flash back.
Never use welding or cutting torch on or near drums, even when empty.
Explosion may result.
During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Vapors may form explosive mixture with air.

5 - SECTION V - HEALTH HAZARDS

EFFECTS OF EXPOSURE:
INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.
EYE CONTACT: Heavy exposure may cause irritation of the eyes.
SKIN CONTACT: Prolonged or repeated exposure may cause skin irritation.
INGESTION: Substance may be harmful if swallowed.

OTHER INFORMATION:

Petroleum distillates normally enter the body via inhalation of vapors. Petroleum distillates may be irritating to the skin, conjunctiva, and the mucous membranes of the upper respiratory tract. Skin chapping and photosensitivity may develop after repeated contact with liquid. This ingredient has a low order of acute oral toxicity. But minute amounts aspirated into the lungs during ingestion may cause severe pulmonary injury or death.

Propargyl alcohol is a component of this product. It is toxic by ingestion, skin absorption, and inhalation. However, "HazardText" notes that a 75% solution is much more dangerous than a 10% solution. Brief eye contact can produce irritation. Prolonged eye contact may cause corneal damage that impairs the vision. Skin contact can also produce irritation. Inhalation, skin contact, and ingestion can produce CNS (General Nervous System) depression with some of the possible symptoms being dizziness, lightheadedness headache, nausea, loss of coordination, delirium, seizures, sedation, respiratory depression and in severe exposures coma and death. Exposures may also damage the liver and kidneys. Inhalation of vapors or mists can irritat the nose, throat, and upper respiratory tract. There is no data available on its carcinogenicity, genetic effects, or reproductive effects.

MATERIAL SAFETY DATA SHEET

CRONOX(R) 230

Caution Code 3-2-0

"CRONOX" is a registered trademark of Baker Performance Chemicals Incorporated

MSDS ID: 4566011

5 - SECTION V - HEALTH HAZARDS (continued)

Animal Toxicity Data on Propargyl Alcohol
Rat Oral LD50 - 20 mg/kg (Highly Toxic) (RTECS)
Rat Inhalation LC50 - 3,000 mg/m3 (871 ppm)/2 Hr (Toxic) (RTECS)
Rabbit Dermal LD50 - 10 mg/kg (Highly Toxic) (RTECS)
Rabbit Dermal LD50 - 88 mg/kg (Highly Toxic) (vendor MSDS)
Irritation Test Data for Propargyl Alcohol
None was available

Ethylene glycol is a component of this product. Exposure to ethylene glycol may occur through inhalation, ingestion or eye contact. Inhalation of ethylene glycol is not usually a hazard unless it is heated since it has a low vapor pressure. Inhalation of mists or vapors can cause irritation of the nose and throat and headache. Inhalation of high concentrations can produce nausea, vomiting, headache, dizziness, and irregular eye movements. Ingestion of large amounts of ethylene glycol in a single dose produces both immediate and delayed symptoms. In the first 12 hours, there are central nervous system (CNS) effects such as intoxication, weakness, nausea, dizziness, loss of coordination, coma, and even death at high doses. The estimated lethal adult human oral dose is about 100 mL (MSDS). Mild hypertension, fast heartbeat, and acidosis may also occur. Kidney failure may occur in 24 to 72 hours after ingestion. Heart failure and pulmonary edema may follow. The liquid or vapor may cause irritation of the eye with reddening of the conjunctiva. Injury to the cornea is not expected. It is not expected to irritate the skin. It has produced teratogen and reproductive effects in laboratory animals.

Ethylene Glycol Toxicity Data
Human Oral LDLo - 786 mg/kg (RTECS)
Rat Oral LD50 - 4,700 mg/kg (RTECS)
Rat Oral LC50 - 10,876 mg/kg (RTECS)
Rabbit Dermal LD50 - 9,530 uL/kg (RTECS)
Irritation Testing
Skin Open Draize
Rabbit - 555 mg open - Reaction: Mild (RTECS)
Eye Standard Draize
Rabbit - 500 mg/24 Hr - Reaction: Mild (RTECS)
Rabbit - 1.440 mg/6 Hr - Reaction: Moderate (RTECS)

Isopropanol, a component of this product may irritate the skin and can produce an itching or burning sensation and prolonged exposure can cause dryness and cracking of the skin. It is also an irritant to the eyes, nose and throat. Excessive inhalation of the vapors may cause headaches, drowsiness, a loss of coordination, collapse, and death. The probable lethal oral dose for an adult is 8 fluid ounces (240 mL) but as little as 20 mL in water can produce symptoms (MSDS). The symptoms from ingestion include: 1. dizziness, incoordination, headache, confusion, stupor, and coma. 2. gastroenteritis with vomiting, hematemesis, and diarrhea. 3. hypotension, with or without bradycardia, and sometimes circulatory collapse. 4. persistent coma with hypothermia. 5. death by respiratory arrest. 6. Late manifestations: aspiration pneumonia, kidney and liver dysfunctions, which are usually mild and transient, but the renal impairment may be serious (MSDS). In addition, isopropanol has shown to be a fetotoxin in tests on laboratory animals (Nelson, BK et al (1988). Food and Chemical Toxicology, 26(3), pps 247-254). Inhalation of high levels of isopropanol (4,000 and 8,000 ppm for 8 hours) has produced congestion in the liver, lungs, and spleen of laboratory animals (Lahon B, et al. 1980, "Drug and Chemical Toxicology"). Ingestion has produced hyperglycemia (high blood sugar) in humans (Lacouture, P, et al, 1983, "American Journal of Medicine" and Chan K-M, et al. 1991, "Clinical Chemistry"). In a four month study, inhalation of isopropanol vapors for 20 hours per week by laboratory animals produced bronchitis, pneumonia, and blood effects (International Program of Chemical Safety. 1990. Environmental Health Criteria 103: 2-propanol. World Health Organization).

Animal Toxicity Data for Isopropanol
Rat Oral LD50 - 5.045 mg/Kg (RTECS)
Rat Inhalation LC50 - 19,000 ppm/8 Hr. female (Sax's Dangerous Properties of Industrial Materials, 8th Edition)

CRONOX(R) 230

Caution Code 3-2-0

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MSDS ID: 4866011

5 - SECTION V - HEALTH HAZARDS (continued)

Rabbit Dermal LD50 - 12,800 mg/Kg (RTECS)
Human Oral LDLO - 1,570 mg/Kg (RTECS)
Man Oral LDLO - 5,272 mg/Kg (RTECS)
Irritation Test Data
Standard Draize
Rabbit Skin - 500 mg REACTION: Mild (RTECS)
Rabbit Eye - 100 mg REACTION: Severe (RTECS)
Naphthalene is found in this product as a contaminant of the solvent system. Humans may be more sensitive to naphthalene than laboratory animals by an order of magnitude. Vapors at 15 ppm cause eye irritation in laboratory animals. Direct contact with the eye may produce conjunctivitis, injury to the cornea, diminished visual acuity, and cataracts. Ingestion can produce nausea, abdominal cramps, vomiting, diarrhea, convulsions, coma, brown or black urine (due to hemolysed blood), anemia, fever, and liver or kidney damage. Inhalation can produce central nervous system depression with the following symptoms: headache, excitement, nausea, vomiting, sweating, visual changes and tingling of the skin. Bloody urine may also be produced. Ingestion has produced reproductive effects both in humans and laboratory animals.
Animal Toxicity Data
Rat Oral LD50 - 490 mg/kg (RTECS)
Rat Skin LD50 - >2,500 mg/kg (RTECS)
Rabbit Skin LD50 - >20 gm/kg (RTECS)
Human LDLo - 29 mg/kg (RTECS)
Irritation Testing
Open Draize Test
Rabbit Skin: 495 mg open (time not given) - Reaction: Mild (RTECS)
Standard Draize Test
Rabbit Eye: 100 mg (time not given) - Reaction: Mild (RTECS)

TOXICITY DATA:
Rabbits - Dermal - LD50: >200 mg/kg
Oral - Rats - LD50: >500 mg/kg

TARGET ORGANS (29 CFR 1910.1200-APPENDIX A):

Nephrotoxin (Kidney)
Hepatotoxin (Liver)
Neurotoxin (Nervous System)
Eye Hazard
Cutaneous Hazard (Skin)

6 - SECTION VI - EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
SKIN CONTACT: Remove all contaminated clothing, flush skin with water for 10 minutes. Afterwards, wash the affected area with soap and water and then rinse.
INGESTION: Do not induce vomiting. Seek medical attention immediately.

7 - SECTION VII - PROTECTIVE EQUIPMENT RECOMMENDATIONS

VENTILATION: The use of mechanical ventilation is recommended whenever this

MATERIAL SAFETY DATA SHEET

CRONOX(R) 230

Caution Code 3-2-0

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MSDS ID: 4566911

7 - SECTION VII - PROTECTIVE EQUIPMENT RECOMMENDATIONS (continued)

product is used in a confined space, is heated above ambient temperatures, or is agitated. Where engineering controls are not feasible, assure use is in an area where there is natural air movement.

Under normal operating conditions, no excursions above the regulated (recommended) exposure levels should occur. However, if used at elevated temperatures (fire), lower atmospheric pressure (high altitudes) or any other physical conditions that may increase the inhalation exposure, respiratory protective equipment as described below, should be worn. Also, due to individual susceptibility and sensitivity, before respirators are used, a full medical evaluation should be performed per 29 CFR 1910.134(b)(10).

RESPIRATORY	CHEMICAL RESISTANT APPAREL	EYE/FACE
X AS NEEDED:	X AS NEEDED:	X AS NEEDED:
Air Supplied (SCBA)	X Natural Rubber Gloves	X Chemical Splash Goggles
X Air Purifying	Tyvek Polyethylene Suit	Full Face Shield
X Full Face Piece	Neoprene Boots	
Half Face Piece		
X Cartridge or Canister		
Acid Gas		
X Organic Vapor		
Ammonia		

A thorough review of the job task (job safety analysis) by a competent safety professional should be conducted to determine the appropriate level of protection. See 29 CFR 1910, Subpart I and 29 CFR 1910.133 for further information.

8 - SECTION VIII - SPILL & LEAK PROCEDURES

Don appropriate protective clothing and respiratory protection prior to entering a spill/leak area. Eliminate ignition sources. Approach area upwind if possible. Shut off leak if it can be done safely. Dike and pump large spills into salvage containers. Soak up residue and small spills with absorbent clay, sand, or dirt and place in salvage containers. If RQ (reportable quantity) is exceeded, report to National Spill Response Office 1-800-424-8802. Also, in some jurisdictions, spills or leaks of any hazardous materials are reportable..consult local lead agencies for further information. Continue to observe precautions.

WASTE DISPOSAL METHOD(S): Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures and processes may change the classification to non-hazardous, or hazardous for reasons other than, or in addition to product characteristics. Dispose of all waste and/or containers in accordance with federal, state and local regulations.

REQUIREMENTS FOR TRANSPORTATION, HANDLING AND STORAGE: Transport, handle and store in accordance with OSHA Regulation 1910.106 and applicable DOT regulations.
Avoid inhalation of vapors or mists. Do not get in eyes,on skin or on clothing Keep container closed when not in use. Wear suitable protection for eyes and skin when handling. Use with adequate ventilation. Avoid contact with oxidizers. Store in well-ventilated area. Store in cool, dry area. Control ignition source; keep away from heat, sparks and open flame. Use properly grounded electrical equipment when working with this product.

MATERIAL SAFETY DATA SHEET

CRONOX(R) 230

Caution Code 3-2-0

"CRONOX" is a registered trademark of Baker Performance Chemicals Incorporated

MSDS ID: 4966011

8 - SECTION VIII - SPILL & LEAK PROCEDURES (continued)

NOTE: The information on this MSDS is based on data which is considered to be accurate. BPCI, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This MSDS was prepared and is to be used for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

By: Anita Wright Date: 8/28/95 Supercedes: 3/30/94
Regulatory Information Specialist II

8/28/95 - Updated MSDS.

TOTAL P.07

District I - (505) 393-6161
O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
11 S. First
rtesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
..c, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
NOV 2 1 1998
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Boeling 62
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Compressor Stations
2. Management Facility Destination KEY DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator PHYSICAL: #345 CR 3500 AZTEC N.M.	8. State NM
7. Location of Material (Street Address or ULSTR) SEE LIST	

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:

DRAINED WATER FROM UNDER COMPRESSOR OIL TANK OIL

RECEIVED
NOV 30 1998
OIL CON. DIV.
DIST. 3

RECEIVED
NOV 12 1998
OIL CON. DIV.
DIST. 3

Original HARD COPY of Analysis will follow when RECEIVED

Estimated Volume 400 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: MGR DATE: 11-12-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/23/98

APPROVED BY: _____ TITLE: Env Geologist DATE: 11/24/98

District I - (505) 393-6161
O. Box 1980
obbs, NM 88241-1980
District II - (505) 748-1283
11 S. First
rtesia, NM 88210
trict III - (505) 334-6178
) Rio Brazos Road
..c, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Burlington
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Compressor Stations
2. Management Facility Destination KEY DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator Physical: #345 CR 3500 Aztec N.M.	8. State NM
7. Location of Material (Street Address or ULSTR) See List	

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:

Drained water from under compressor oil tank oil

RECEIVED
NOV 12 1998
OIL CON. DIV.
DIST. 3

Original Hard copy of analysis will follow when received

Estimated Volume 400 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] TITLE: MGR DATE: 11-12-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: [signature] TITLE: Geologist DATE: 11/23/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Burlington Resources 3535 East 30 th Street Farmington NM 87401	Sunco Disposal

3. Originating Site (name):	Location of the Waste (Street address /or ULSTR):
All Compressor Stations	See Attached. Sampled under project CC-51816 (non-haz).
Unit:	Section: Township: Range:

4. Source and Description of Waste:

Drained water from oil tank.

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NOV 12 1998
OIL CON. DIV.
DIST. 3

I, Jeff Schoenbacher representative for:

Burlington Resources 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 the 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 only the following documentation is attached (chech appropriate items):

___ MSDS Information
✓ RCRA Hazardous Waste Analysis
✓ Chain of Custody
___ Other (description):

Name (Original Signature): Jeff Schoenbacher
Title: Env. Representative
Date: Thursday, November 12, 1998

Burlington Resources Oil & Gas Company
Compressor Stations

		QTR	SEC	TWP	RNG
1.	Frances Mesa	SW	27	30N	7W
2.	Cedar Hill	SW	29	32N	10W
3.	Gobernador	NW	31	30N	7W
4.	Manzanares	SE	4	29N	8W
5.	Pump Canyon	NE	24	30N	9W
6.	Hart Canyon	SE	20	31N	10W
7.	Buena Vista	NE	13	30N	9W
8.	Sandstone	SE	32	31N	8W
9.	Quinn	SW	16	31N	8W
10.	Arch Rock	SW	14	31N	10W
11.	Pump Mesa	SW	14	31N	8W
12.	Middle Mesa	SW	10	31N	7W
13.	Simms Mesa	NE	22	30N	7W
14.	Rudy	SE	35	29N	11W
15.	Zachry	SW	34	29N	10W
16.	Albright	NW	22	29N	10W
17.	Rattlesnake	SW	10	31N	7W
18.	Cox	SW	20	32N	10W
19.	Lateral 311	NE	17	29N	10W
20.	Lateral 355	SE	25	30N	11W
21.	Ute	SW	14	32N	11W
22.	State	NW	16	28N	9W

BURLINGTON RESOURCES

SAN JUAN DIVISION

RECEIVED
NOV 20 1998
OIL CON. DIV.
DIST. 3

November 17, 1998

Sunco Trucking
P.O. Box 900
5651 U.S. Highway 64
Farmington, NM 87499

Attention: Mike Talovich, Manager

Re: Characterization of Drained Water from Used Oil Tank

Dear Mr. Talovich:

The purpose of this correspondence is to submit to your department the attached final wastewater analysis for water generated from draining the used oil tank at the compressor stations. The main purpose for analyzing these waste streams was to comply with 40 CFR 262.11 waste determination requirements contained in the Resource Conservation and Recovery Act (RCRA). The parameters that were chosen for characterizing these waste streams were determined through "generators knowledge" defined under 40 CFR 262.11 (c) (2).). Upon evaluating the analysis for this waste stream it appears the water does <u>not</u> exhibit the characteristics of a hazardous waste.

Should you have any questions concerning the content or need additional information please feel free to contact me at 505-326-9537. Thank you for your time and consideration.

Sincerely,

Jeffery T. Schoenbacher
Environmental Representative

Enc. Sample Project CC-51816

CC: Bruce Gantner
Ed Hasely
Greg Kardos
Gaza Seabolt
Ken Johnson
Correspondence
Compressor Files

JTS:

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Jeff Schoenbacher
Burlington Resources
3535 E. 30th St.
Farmington, NM 87402

November 10, 1998

Mr. Schoenbacher:

Enclosed, please find the reports for the sample received by our laboratory for analysis on November 2, 1998.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

We appreciate your business!

Sincerely,

Sharon Williams
Organics Lab Supervisor

Enclosure

xc: File

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

BURLINGTON RESOURCES

Case Narrative

On November 2, 1998, one sample was submitted to Inter-Mountain Laboratories - Farmington for rush analysis. The sample was identified by project "Oil Tank Water / Compressor Stations". The sample was analyzed for the parameters indicated on the accompanying Chain of Custody form # 51816.

Digestion of the extracted sample for metals was performed by "Acid Digestion of Aqueous Samples and Extracts for Total Metals", SW-846, Rev. 1, July 1992.

Trace metals was performed on the sample by"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, U.S.E.P.A., November, 1986.

Analysis for the Volatiles was performed by Method 8260A, Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, U.S.E.P.A., September, 1994.

Semi-Volatile analysis was perfomed by Method 8270, Gas Chromatography/Mass Spectrometry for Semi-Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, U.S.E.P.A., November, 1990.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely,

Sharon Williams
Organics Lab Supervisor

Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE ORGANIC TOXICITY CHARACTERISTIC LIST

TCLP Leachate

Method 8260

Client:	**Burlington Resources**		
Project:	Oil Tank Water / Compressor Stations	Date Reported:	11/10/98
Sample ID:	DW #11298	Date Sampled:	11/02/98
Laboratory ID:	0398G06445	Date Received:	11/02/98
Sample Matrix:	Water/Oil Mix	Date Analyzed:	11/09/98

Parameter	Result	Reporting Limit	Hazardous Limit	Units
Benzene	**0.20**	0.10	0.5	mg/L
2-Butanone (MEK)	ND	0.10	0.5	mg/L
Carbon tetrachloride	ND	0.10	100	mg/L
Chlorobenzene	ND	0.10	6.0	mg/L
Chloroform	ND	0.10	7.5	mg/L
1,2-Dichloroethane	ND	0.10	0.5	mg/L
1,1-Dichloroethene	ND	0.10	0.7	mg/L
1,4 Dichlorobenzene	ND	0.10	200	mg/L
Tetrachloroethene	ND	0.10	0.7	mg/L
Trichloroethene	ND	0.10	0.5	mg/L
Vinyl chloride	ND	0.10	0.2	mg/L

ND- Analyte not detected at stated detection level.

Reported By: _____ Reviewed: _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

SEMIVOLATILE ORGANICS /TCLP

TCLP Leachate

Method 8270

Client:	**Burlington Resources**		
Project:	Oil Tank Water / Compressor Stations	Date Reported:	11/10/98
Sample ID:	DW # 11298	Date Sampled:	11/02/98
Laboratory ID:	0398G06445	Date Received:	11/02/98
Sample Matrix:	Oil / Water Mix	Date Analyzed:	11/09/98

Parameter	Result	Reporting Limit	Hazardous Limits	Units
Cresol(Total)	ND	1.0	200.0	mg/L
2,4-Dinitrotoluene	ND	0.10	0.13	mg/L
Hexachlorobenzene	ND	0.10	0.13	mg/L
Hexachlorobutadiene	ND	0.20	0.5	mg/L
Hexachloroethane	ND	0.10	3.0	mg/L
Nitrobenzene	ND	0.50	2.0	mg/L
Pentachlorophenol	ND	0.20	100	mg/L
Pyridine	ND	0.50	5.0	mg/L
2,4,5-Trichlorophenol	ND	0.50	400.0	mg/L
2,4,6-Trichlorophenol	ND	0.50	2.0	mg/L

ND - Analyte not detected at stated detection level.

Reported By: _____ Reviewed: _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	**Burlington Resources**		
Project:	Oil Tank Water / Compressor Stations	Date Reported:	11/10/98
Sample ID:	DW #11298	Date Sampled:	11/02/98
Laboratory ID:	0398G06445	Date Received:	11/02/98
Sample Matrix:	Oil / Water Mix	Date Analyzed:	11/10/98

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	<0.061	0.061	5	mg/L
Barium	**0.21**	0.001	100	mg/L
Cadmium	<0.008	0.008	1	mg/L
Chromium	**0.084**	0.008	5	mg/L
Lead	<0.04	0.04	5	mg/L
Mercury	<0.0004	0.0004	0.2	mg/L
Selenium	<0.05	0.05	1	mg/L
Silver	<0.03	0.03	5	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846 "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods" 3rd Edition, Final Update III, December, 1996.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846 "Test Methods for Evaluating Solid Waste: Physical/ Chemical Methods" 3rd Edition, Final Update III, December, 1996.

Comments:

Reported By: _____ Reviewed: _____

Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Flash Point

Client:	**Burlington Resources**		
Project:	Oil Water Tank / Compressor Stations	Date Reported:	11/10/98
Sample ID:	DW #11298	Date Sampled:	11/02/98
Laboratory ID:	0398G06445	Date Received:	11/02/98
Sample Matrix:	Oil / Water Mix	Date Analyzed:	11/05/98
Condition:	Intact		

Analyte	Result	Units
Flash Point	>140	°F

References:

Analysis performed according to SW-846 "Test Methods for Evaluating Solid Waste: Physical / Chemical Methods" United States Environmental Protection Agency 3rd Edition, Final Update II, September, 1994.

Annual Book of ASTM Standards, Method D56.

Reported by: _____

Reviewed by: _____

Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

QUALITY CONTROL / QUALITY ASSURANCE

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Volatile Organics by GC/MS

Spike Analysis

Client:	**Burlington Resources**	Date Reported:	11/10/98
Project:	Oil Tank Water / Compressor Stations	Date Analyzed:	11/09/98
Sample Matrix:	Oil / Water Mix	Date Received:	11/02/98
Concentration Units:	mg/L		

Analyte	Spike Amount	% Recovery 1	% Recovery 2	Accuracy % Var.	Accuracy % Limits
1,1-Dichoroethene	20ppb	114	120	5.6	20-234
Trichloroethene	20ppb	112	110	1.8	71-157
Benzene	20ppb	122	122	0.33	37-151
Toluene	20ppb	130	128	1.8	47-150
Chlorobenzene	20ppb	102	108	5.9	37-160

Reported by _____

Reviewed by _____

Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Semivolatile Organics by GC/MS

Spike Analysis

Client:	**Burlington Resources**	Date Reported:	11/10/98
Project:	Oil Tank Water / Compressor Stations	Date Analyzed:	11/09/98
Sample Matrix:	Oil / Water Mix	Date Received:	11/02/98
Concentration Units:	mg/L		

Analyte	Spike Amount	% Recovery 1	% Recovery 2	Accuracy % Var.	Accuracy % Limits
Phenol	200 ppb	103	94.1	8.6	10-120
2-Chlorophenol	200 ppb	100	77.9	22	23-134
Acenaphthene	100 ppb	85.0	71.2	16	47-145
Pyrene	100 ppb	95.9	86.6	9.7	52-125

Reported by _____

Reviewed by _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Toxicity Characteristic Leaching Procedure
Metals Spike Analysis

Client:	**Burlington Resources**	Date Reported:	11/10/98
Project:	Oil Tank Water / Compressor Stations	Date Analyzed:	11/09/98
Sample Matrix:	Oil / Water Mix	Date Received:	11/02/98
Concentration Units:	mg/L		

Analyte	Spike Amount	% Recovery 1	% Recovery 2
Arsenic	4.0	93.3	94.1
Barium	4.0	74.6	77.9
Cadmium	4.0	85.8	71.2
Chromium	4.0	98.0	86.6
Lead	4.0	75.4	76.0
Mercury	N/A	N/A	N/A
Selenium	4.0	104.5	104.5
Silver	4.0	97.1	97.3

Comments : Data not available.

Reported by _____

Reviewed by _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis
FLASH POINT

Client:	**Burlington Resources**	Date Reported:	11/10/98
Project:	Oil Water Tank / Compressor Stations	Date Analyzed:	11/05/98
Sample Matrix:	Oil / Water Mix	Date Received:	11/02/98

Parameter	Found Result	Known Result
p-Xylene	77°F	77°F

Reference: Analysis performed according to SW-846 "Test Methods for Evaluating Solid Waste: Physical / Chemical Methods" United States Environmental Protection Agency 3rd Edition, Final Update II, September, 1994.

Annual Book of ASTM Standards, Method D56.

Comments:

Reported by _____

Reviewed by _____

imi
Inter- Mountain
Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSES / PARAMETERS
[illegible]	Compressor Stations	
Sampler: (Signature)	**Chain of Custody Tape No.**	

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	TCLP Metals	TCLP + Semi-Vols	Flash		Remarks
DW # 11398	11/02/98	1010		Water (Soil)	2	✓	✓	✓		
										DUE ASAP

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	**Date**	**Time**	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received by laboratory: (Signature)**	**Date**	**Time**
			Sharon Williams	11/3/98	1535

Inter-Mountain Laboratories, Inc.

☐ 1633 Terra Avenue
Sheridan, Wyoming 82801
Telephone (307) 672-8945

☐ 1701 Phillips Circle
Gillette, Wyoming 82718
Telephone (307) 682-8945

☑ 2506 West Main Street
Farmington, NM 87401
Telephone (505) 326-4737

☐ 1160 Research Drive
Bozeman, Montana 59718
Telephone (406) 586-8450

☐ 11183 State Hwy. 30
College Station, TX 77845
Telephone (409) 776-8945

51816

CHAIN OF CUSTODY RECORD

Inter- Mountain Laboratories, Inc.

Client/Project Name	Project Location	ANALYSES / PARAMETERS
Sampler: (Signature)	Chain of Custody Tape No.	Remarks

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	TCLP Metals	TCLP VOA-Semi	Flash		
DW-11378	11/6/98	1[illegible]		Water		✓	✓	✓		
										LAB FILTER

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by laboratory: (Signature) Sharon Williams	Date 11/6/98	Time [illegible]

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51816

District I - (505) 393-6161
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1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
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Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Four-Four Inc.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site ½ mile south of NAVAJO DAM, STATE RT. 539
2. Management Facility Destination Key Energy Disposal	6. Transporter SUNCO
3. Address of Facility Operator PHYSICAL: #345 CR 3500 AZTEC N. M	8. State NM
7. Location of Material (Street Address or ULSTR) 400 SANDSTONE AVE. FARMINGTON, NM 87401	

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:
Hydrocarbon contaminated water caused from Run off from an overturned oilfield service Truck

RECEIVED
NOV 18 1998
OIL CON. DIV.
DIST. 3

RECEIVED
NOV 12 1998
OIL CON. DIV.

Estimated Volume 350 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: MGR DATE: 11-12-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 11/12/98

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 11/16/98

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...c, NM 87410
District IV - (505) 827-7131

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Form C-138
Originated 8/8/95

Submit Original
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to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator FOUR-FOUR INC.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site ½ mile south of NAVAJO DAM STATE RT. 539
2. Management Facility Destination KEY ENERGY DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator PHYSICAL: #345 CR 3500 AZTEC N. M	8. State NM
7. Location of Material (Street Address or ULSTR) 400 SANDSTONE AVE. FARMINGTON, NM 87401	

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:
HYDROCARBON CONTAMINATED WATER CAUSED FROM RUN OFF FROM AN OVERTURNED OILFIELD SERVICE TRUCK

RECEIVED
NOV 12 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 350 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: MGR DATE: 11-12-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 11/12/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Four-Four Inc. 3000 East Bloomfield Highway Farmington, NM 87401	Sonco Disposal County Road 3500 Aztec, NM 87410
3. Originating Site (name): ½ mile south of the Navajo Dam State Route 539 Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): M&R Trucking 400 Sandstone Ave. Farmington, NM 87401
4. Source and Description of Waste Hydrocarbon contaminated water Caused from runoff from an overturned field service truck.	

I, Mike Hall representative for:

Four-Four Inc. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1998, regulatory determination, the above-described waste is: (Check appropriate classification)

__**EXEMPT** oilfield waste

__X__**NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste only the following documentation is attached (check appropriate items):

_____MSDS Information

X Other (description): Preliminary Laboratory Results

_____RCRA Hazardous Waste Analysis

_____Chain of Custody

Name (Original Signature): Mike Hall

Title: General Office Manager

Date: 11-11-98

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OIL CON. DIV.
DIST. 3

ANALYTICAL REPORT

Date: *11-Nov-98*

Client:	On Site Technologies, Limited Partnership	**Client Sample Info:**	Four-Four
Work Order:	9810083	**Client Sample ID:**	Delusso Loop Spill Water
Lab ID:	9810083-01A **Matrix:** AQUEOUS	**Collection Date:**	10/28/98 11:00:00 AM
Project:	4-1532	**COC Record:**	5585

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		**SW8020A**				Analyst: **DC**
Toluene	790	10		µg/L	10	11/4/98
m,p-Xylene	1,100	20		µg/L	10	11/4/98
o-Xylene	340	10		µg/L	10	11/4/98
BTEX		**SW8020A**				Analyst: **HR**
Benzene	170	1		µg/L	1	11/3/98
Ethylbenzene	98	1		µg/L	1	11/3/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

X - Value above quantitation range

Surr: - Surrogate

PRELIMINARY

ANALYTICAL REPORT

Date: *11-Nov-98*

Client:	On Site Technologies, Limited Partnership	**Client Sample Info:**	Four-Four
Work Order:	9810083	**Client Sample ID:**	Delusso Loop Spill Water
Lab ID:	9810083-01B **Matrix:** AQUEOUS	**Collection Date:**	10/28/98 11:00:00 AM
Project:	4-1532	**COC Record:**	5585

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
TPH, WATER		**E418.1**				Analyst: **HR**
Petroleum Hydrocarbons, T/R	14	5		mg/L	1	11/2/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

V - Value above quantitation range

Surr: - Surrogate

ERROR! MISSING

ANALYTICAL REPORT

Date: *11-Nov-98*

Client:	On Site Technologies, Limited Partnership	**Client Sample Info:**	Four-Four
Work Order:	9810083	**Client Sample ID:**	Trip Blank
Lab ID:	9810083-02A **Matrix:** AQUEOUS	**Collection Date:**	10/28/98 10:50:00 AM
Project:	4-1532	**COC Record:**	5585

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		**SW8020A**				Analyst: **HR**
Benzene	ND	1		µg/L	1	11/3/98
Toluene	ND	1		µg/L	1	11/3/98
Ethylbenzene	ND	1		µg/L	1	11/3/98
m,p-Xylene	ND	2		µg/L	1	11/3/98
o-Xylene	ND	1		µg/L	1	11/3/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

V - Value above quantitation range

Surr: - Surrogate

CENTRAL LABORATORY



Mountain States Analytical, Inc.

November 10, 1998

Mr. David Cox
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Reference:
Project: Metals Analysis
MSAI Group: 24665

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following sample is included in the report.

9810083-01C

All holding times were met for the tests performed on these samples.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

Rolf E. Larsen
Project Manager

Analytical Report

Mountain States Analytical, Inc.
The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: Metals Analysis

MSAI Sample: 88896
MSAI Group: 24665
Date Reported: 11/10/98
Discard Date: 12/10/98
Date Submitted: 10/29/98
Date Sampled: 10/28/98
Collected by:
Purchase Order:
Project No.:

Sample ID: 9810083-01C DELUSSO LOOP SPILL
Matrix: Waste Water WATER

Test	Analysis	Results as Received	Units	Limit of Quantitation	
03921	Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	Complete		(*)	
0407	Mercury Prep CVAA, ww, 7470A Method: SW-846 7470A	Complete		(*)	
13001	Metals by ICP, 6010A, w/ww Method: SW-846 6010A				
	Arsenic	< 0.1	mg/l	(*)	0.1
	Barium	8.65	mg/l	(*)	0.015
	Cadmium	< 0.05	mg/l	(*)	0.05
	Chromium	0.085	mg/l	(*)	0.050
	Lead	< 0.1	mg/l	(*)	0.1
	Selenium	< 0.1	mg/l	(*)	0.1
	Silver	< 0.05	mg/l	(*)	0.05
1521	Mercury by CVAA, w/ww, 7470A Method: SW-846 7470A	< 0.00050	mg/l	(*)	0.00050

(*). This analysis was subcontracted to another qualified laboratory.

Analytical Report

Mountain States Analytical, Inc.
The Quality Solution

On Site Technologies, Ltd.

MSAI Sample: 88896
MSAI Group: 24665

Sample ID: 9810083-01C

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Coastal Chemical
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site YARD
2. Management Facility Destination Sunco Disposal	6. Transporter SUNCO
3. Address of Facility Operator ~~Box~~ #345 CR3500 Aztec NM 87410	8. State NM
7. Location of Material (Street Address or ULSTR) #10 CR 5911 Farmington, NM	

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:

Rinse water from pump, hoses, tanks and related equipment
virgin chemicals mixed with rain water

RECEIVED
NOV - 9 1998
OIL CON. DIV.
DIST. 3

RECEIVED
NOV - 2 1998
OIL CON. DIV.
DIST. 3

Same waste as 8-4-98 stream

Estimated Volume 260 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: MGR DATE: 11-2-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 11-2-98

APPROVED BY: Martyne Kelly TITLE: Env. Geologist DATE: 11-6-98

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District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Coastal Chemical
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site YARD
2. Management Facility Destination Sunco Disposal	6. Transporter SUNCO
3. Address of Facility Operator ~~#345~~ #345 CR3500 Aztec NM 87410	8. State NM
7. Location of Material (Street Address or ULSTR) #10 CR 5911 Farmington, NM	

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:

Rinse water from pump, hoses, tanks and related equipment
Virgin chemicals mixed with rain water

Same waste stream as 8-4-98 fillup

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NOV - 2 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 260 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: MGR DATE: 11-2-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 10-29-98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Coastal Chemical Co Inc #10 CR 5911 Farmington NM 87401	Sunco Disposal System 345 RD 3500 Aztec NM 87410
3. Originating Site (name): Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** Coastal Chemical Co Inc #10 CR 5911 Farmington NM 87401
4. Source and Description of Waste Rinse water from pump, Hoses and tanks used to deliver virgin chemicals. All chemicals rinsed out are virgin/unused chemicals. Chemicals may include: Alkanolamine, Glycol (TEG & EG) , Antifreeze.	

I, Michael Reams representative for:
(Print Name)
Coastal Chemical Co., Inc 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

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 only the following documentation is attached (check appropriate items):

- X MSDS Information
- ___ RCRA Hazardous Waste Analysis
- ___ Chain of Custody
- ___ Other (description):

Name (Original Signature): Michael Reams

Title: Facility Manager

Date: 11-2-98

Material Safety Data Sheet

Dow Chemical U.S.A.* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 55520 Page: 1

Product Name: METHYLDIETHANOLAMINE

Effective Date: 07/12/93 Date Printed: 07/14/93 MSDS:000913

1. INGREDIENTS: (% w/w, unless otherwise noted)

Methyldiethanolamine CAS# 000105-59-9 99%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: 464-491F, 240-255C
VAP PRESS: <1 mmHg @ 20C
VAP DENSITY: 4
SOL. IN WATER: Complete
SP. GRAVITY: 1.04-1.06
APPEARANCE: Pale straw liquid.
ODOR: Amine odor.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 270F, 132C; 269F, 131C
METHOD USED: COC; Setaflash closed cup

FLAMMABLE LIMITS
LFL: Not determined
UFL: Not determined

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, foam. For large scale fires, alcohol resistant foams or protein foams may function, but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain fire run off water. For large scale fires, direct water stream may cause violent frothing, but fine water spray may help control situation.

(Continued on page 2 , over)
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3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

FIRE & EXPLOSION HAZARDS: Keep unnecessary people away; isolate hazard area and deny unnecessary entry. Highly toxic fumes are released in fire situation. Fire water run off may be toxic. When using water spray, boil over may occur when the product temperature reaches the boiling point of water (tank type scenarios, not spills).

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus and full protective equipment.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) No relevant data.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: Possible nitrogen oxides and carbon oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS: Wash small amounts with water. Dike to avoid contamination of sewer system with large amounts. Keep out of sewers, storm drains, surface waters and soil.

DISPOSAL METHOD: ++DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER++. For unused or uncontaminated material, the preferred management options are to send to a licensed recycler, reclaimer, or incinerator. The same management options are recommended for used or contaminated material, although additional evaluation is required. (see, for example, 40 CFR Part 261, "Identification and Listing of Hazardous Waste"). Any disposal practice must be in compliance with federal, state, provincial, and local laws and regulations. Check with appropriate agencies for your location. For additional information, see Section 4 (REACTIVITY DATA) and "REGULATORY INFORMATION".

As a service to its customers, Dow can provide lists of

(Continued on page 3)

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5. ENVIRONMENTAL AND DISPOSAL INFORMATION: (CONTINUED)

companies which recycle, reprocess or manage chemicals and companies that recondition used drums. Telephone Dow's Customer Information Center at 800/258-CHEM (2436) for further details.

6. HEALTH HAZARD DATA:

EYE: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

SKIN CONTACT: Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if confined or skin is abraded.

SKIN ABSORPTION: A single prolonged skin exposure is not likely to result in absorption of harmful amounts. The LD50 for skin absorption in rabbits is >2000 mg/kg.

INGESTION: Single dose oral toxicity is low. The oral LD50 for rats is likely between 2000-3980 mg/kg. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract.

SYSTEMIC & OTHER EFFECTS: No relevant information found.

7. FIRST AID:

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical consultation is essential.

SKIN: Wash off in flowing water or shower. Remove contaminated clothing and wash before reuse.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

(Continued on page 4 , over)

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7. FIRST AID: (CONTINUED)

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

EYE PROTECTION: Use chemical goggles. Eye wash fountain should be located in immediate work area.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion.

MSDS STATUS: Revised sections 3, 5, 9, and Regulatory Information

For information regarding state/provincial and federal regulations see The Regulatory Information Section.
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REGULATORY INFORMATION: (Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard

STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of

New Jersey
Pennsylvania

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

(Continued on page R-2 , over)
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REGULATORY INFORMATION (CONTINUED)

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

D2B

CANADIAN TDG INFORMATION: For guidance, the Transportation of Dangerous Goods Classification for this product is:

Not regulated

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* An Operating Unit of The Dow Chemical Company

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MATERIAL SAFETY DATA SHE
TRIETHYLENE GLYCOL

1	HMIS HEALTH
1	HMIS FLAMMABILITY
0	HMIS REACTIVITY
B	HMIS PERSONAL PROTECTIO

SECTION I - IDENTIFICATION

DISTRIBUTED BY.....	COASTAL CHEMICAL COMPANY, INC P.O. BOX 820 ABBEVILLE, LA 70511-0820 (318) 893-3862
EMERGENCY PHONE NUMBER...	(318) 893-3862 OR CHEMTREC (800) 424-9300
EFFECTIVE DATE.....	02/26/90
MANUFACTURER'S NAME.....	UNION CARBIDE DOW CHEMICAL TEXACO OXY-PETROCHEMICAL
TRADE NAME.....	TRIETHYLENE GLYCOL
CHEMICAL FAMILY.....	POLYETHYLENE GLYCOL
CAS NUMBER.....	112-27-6
CHEMICAL FORMULA.....	C6H1404

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
TRIETHYLENE GLYCOL	99	None Established	112-27-6

SECTION III - PHYSICAL DATA

FREEZING POINT (F).....	-7 Deg. C., 19 Deg. F.
VAPOR PRESSURE (mm Hg)...	(1 mm
VAPOR DENSITY (Air=1)....	5.2, air = 1
SOLUBILITY IN H2O.....	Completely soluble in all proportions
APPEARANCE/ODOR.....	Clear, colorless, viscous liquid with slight odor.
SPECIFIC GRAVITY (H2O=1).	1.1 @ 77 Deg. F., 25/25 Deg.C
PH.....	N/D

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT.....	350 Deg. F.
LOWER FLAME LIMIT.....	0.9
HIGHER FLAME LIMIT.....	9.2
EXTINGUISH MEDIA.....	Use water fog or spray, Alcohol Foam, Dry Powder, Carbon Dioxide (CO2).
UNUSUAL FIRE HAZARD.....	Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away. Approach fire from upwind side. Avo breathing smoke, fumes, mist or vapors on the downwind side.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.... Recommended 5 MG/M3 based on oil mist.

ROUTES OF ENTRY:	INHALATION?	SKIN?	INGESTION?
	Irritant	Mild irritant	Irritant

HEALTH HAZARDS..... ACUTE: Vapors or liquid may be irritating to skin, eyes, or mucous membranes. Avoid inhalation or skin/eye contact.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULAT
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medic attention. Wash clothing before reuse. If swallowed do not induce vomiting, get immediate medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable
CONDITIONS TO AVOID..... Heat may cause internal pressure which could ruptu container.
INCOMPATIBLE MATERIALS... Oxidizers or Oxidizing Materials.
DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxid
HAZARDOUS POLYMERIZATION. Will not occur
POLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL..... In case of spillage, absorb with inert material ar dispose of in accordance with applicable regulatio

WASTE DISPOSAL METHOD.... Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... When ventilation is not adequate, use of NIOSH approved organic vapor gas cartridge respirator i recommended.
VENTILATION..... Required in closed areas
MECHANICAL EXHAUST..... Required in closed areas
LOCAL EXHAUST..... Desired
PROTECTIVE GLOVES..... Wear impervious gloves
EYE PROTECTION..... Use chemical goggles or full face shield.

OTHER PROTECTIVE
EQUIPMENT..... Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE..... Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.

PRECAUTIONARY MEASURES... Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.

HAZARD CLASS..... Not Regulated
DOT SHIPPING NAME..... Triethylene Glycol
REPORTABLE QUANTITY (RQ). None
UN NUMBER..... None
NA #..... None
PACKAGING SIZE..... N/A

SECTION X - REGULATORY

EPA ACUTE..... YES
EPA CHRONIC..... NO
EPA IGNITABILITY..... NO
EPA REACTIVITY..... NO
EPA SUDDEN RELEASE OF
PRESSURE..... NO

CERCLA RQ VALUE..... None

SARA TPQ..... None
SARA RQ..... None
SECTION 313..... No

EPA HAZARD WASTE #..... None
CLEAN AIR..... Yes Section 111
CLEAN WATER..... No

FOOT NOTES N/A - not applicable N/D - no data available
(- means less than) - means greater than
App. - approximate Est. - estimated

PREPARED BY:..... Glen White, B.I.S., 817-560-4631

MATERIAL SAFETY DATA SHEET
TRIETHYLENE GLYCOL

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMER IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

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MATERIAL SAFETY DATA SHEET
TRIETHLYLENE GLYCOL REPROCESSED

1 HMIS HEALTH
1 HMIS FLAMMABILITY
0 HMIS REACTIVITY
B HMIS PERSONAL PROTECTI

SECTION I - IDENTIFICATION

DISTRIBUTED BY..... COASTAL CHEMICAL COMPANY, INC
P.O. BOX 820
ABBEVILLE, LA 70511-0820
(318) 893-3862
EMERGENCY PHONE NUMBER... (318) 893-3862 OR CHEMTREC (800) 424-9300
EFFECTIVE DATE..... 02/26/90
MANUFACTURER'S NAME.....
TRADE NAME..... TRIETHLYLENE GLYCOL REPROCESSED
CHEMICAL FAMILY..... POLYETHYLENE GLYCOL
CAS NUMBER..... 112-27-6
CHEMICAL FORMULA..... C6H1404

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
TRIETHYLENE GLYCOL	98	None Established	112-27-6

SECTION III - PHYSICAL DATA

FREEZING POINT (F)..... -7 Deg. C., 19 Deg. F.
VAPOR PRESSURE (mm Hg)... (1 mm
VAPOR DENSITY (Air=1).... 5.2, air = 1
SOLUBILITY IN H2O..... Completely soluble in all proportions
APPEARANCE/ODOR..... Light amber color, viscous liquid with slight order.
SPECIFIC GRAVITY (H2O=1). 1.1 @ 77 Deg. F., 25/25 Deg.C
PH..... N/D

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... 350 Deg. F.
LOWER FLAME LIMIT..... 0.9
HIGHER FLAME LIMIT..... 9.2
EXTINGUISH MEDIA..... Use water fog or spray, Alcohol Foam, Dry Powder, Carbon Dioxide (CO2).
UNUSUAL FIRE HAZARD..... Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away. Approach fire from upwind side. Avoid breathing smoke, fumes, mist or vapors on the downwind side.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.... Recommended 5 MG/M3 based on oil mist.

MATERIAL SAFETY DATA SH
TRIETHLYLENE GLYCOL REPROCESSED

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	Irritant	Mild irritant	Irritant

HEALTH HAZARDS..... ACUTE: Vapors or liquid may be irritating to skin, eyes, or mucous membranes. Avoid inhalation or skin/eye contact.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULAT
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medic attention. Wash clothing before reuse. If swallowed. do not induce vomiting, get immediate medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable

CONDITIONS TO AVOID..... Heat may cause internal pressure which could rupture container.

INCOMPATIBLE MATERIALS... Oxidizers or Oxidizing Materials.

DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide.

HAZARDOUS POLYMERIZATION. Will not occur

POLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL..... In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations

WASTE DISPOSAL METHOD.... Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... When ventilation is not adequate, use of NIOSH approved organic vapor gas cartridge respirator is recommended.

VENTILATION..... Required in closed areas

MECHANICAL EXHAUST..... Required in closed areas

LOCAL EXHAUST..... Desired

PROTECTIVE GLOVES..... Wear impervious gloves

EYE PROTECTION..... Use chemical goggles or full face shield.

OTHER PROTECTIVE EQUIPMENT..... Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE.....	Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.
PRECAUTIONARY MEASURES...	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.
HAZARD CLASS.....	NON HAZARDOUS
DOT SHIPPING NAME.....	CHEMICALS, NOS
REPORTABLE QUANTITY (RQ).	None
UN NUMBER.....	None
NA #.....	None
PACKAGING SIZE.....	N/A

SECTION X - REGULATORY

EPA ACUTE.....	YES
EPA CHRONIC.....	NO
EPA IGNITABILITY.....	NO
EPA REACTIVITY.....	NO
EPA SUDDEN RELEASE OF PRESSURE.....	NO
CERCLA RQ VALUE.....	None
SARA TPQ.....	None
SARA RQ.....	None
SECTION 313.....	No
EPA HAZARD WASTE #.....	None
CLEANAIR.....	Yes Section 111
CLEAN WATER.....	No

FOOT NOTES N/A - not applicable N/D - no data available
(- means less than) - means greater than
App. - approximate Est. - estimated

PREPARED BY:..... Glen White, S.I.S., 817-560-4631

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOME IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY TH COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

Material Safety Data Sheet

The Dow Chemical Company
Midland, Michigan 48674

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-Hour Emergency Phone Number: 517-636-4400

Product: GAS/SPEC (R) CS-PLUS SOLVENT ADDITIVE

Product Code: 29451

Effective Date: 06/30/94 Date Printed: 07/25/95 MSD: 002850

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS#	AMOUNT (%w/w)
Proprietary alkylamine		90 to 100%
Water	CAS# 007732-18-5	Max. 4%

3. HAZARDS IDENTIFICATION

EYE: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

SKIN CONTACT: Short single exposure may cause skin burns. Prolonged exposure may cause severe skin burns. DOT classification: corrosive.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INGESTION: Single dose oral toxicity is low. Amounts ingested incidental to industrial handling are not likely to cause injury; however ingestion of larger amounts may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.

INHALATION: At room temperature, exposures to vapors are unlikely due to physical properties; higher temperatures may generate vapor levels sufficient to cause adverse effects.

SYSTEMIC AND OTHER EFFECTS: Repeated excessive exposures may cause liver and kidney effects. Birth defects are unlikely. Exposures having no adverse effects on the mother should have

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no effect on the fetus.

4. FIRST AID

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical consultation is essential.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Destroy contaminated shoes.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: Corrosive. May cause stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT: 160F, 71C
METHOD USED: PMCC

FLAMMABLE LIMITS
LFL: 1.6%
UFL: 19.6%

AUTOIGNITION TEMPERATURE: 350C; 662F

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, foam. For large-scale fires, alcohol resistant foams are preferred if available. General purpose synthetic foams or protein foams may function, but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain fire run-off water.

FIRE AND EXPLOSION HAZARDS: Keep unnecessary people away; isolate

(Continued on page 3)
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hazard area and deny unnecessary entry. Highly toxic fumes are released in fire situations. Fire water run-off may be toxic. See environmental section of this MSDS. When using water spray, boil-over may occur when the product temperature reaches the boiling point of water (tank-type scenarios, not spills). See also 'STORAGE AND HANDLING' section of this MSDS.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

ACTION TO TAKE FOR SPILLS: Wash with small amounts of water. Dike to avoid contamination of sewer with large amounts, soak up with absorbent material, scoop into drums.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Will produce flammable vapors above the flash point.

STORAGE:
Store in a tightly closed container, away from sunlight, in a cool, dry and well ventilated area. Keep away from strong acids and oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient for most conditions.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes. Remove contaminated clothing

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immediately, wash skin area with soap and water, and launder clothing before reuse.

EYE PROTECTION: Use chemical goggles. Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of spashes. Eye wash fountain should be located in immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	: 306-324F, 152-162C
VAPOR PRESSURE	: <2.5 mmHg @ 20C
VAPOR DENSITY	: 2.6
SOLUBILITY IN WATER	: Complete
SPECIFIC GRAVITY	: 0.93-0.94 @ 20/20C
FREEZING POINT	: -4.5C, 24F
APPEARANCE	: Colorless liquid
ODOR	: Amine

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Stable, avoid heat, sparks, and open flames.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Acids, strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon dioxide, toxic carbon monoxide and oxides of nitrogen. Unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

ACUTE SKIN: The dermal LD50 has not been determined.

ACUTE INGESTION: The oral LD50 for rats is between 1000 and 2340 mg/kg.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

(Continued on page 5)
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No data available at MSDS effective date.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL METHOD: Dispose by incineration in accordance with all local, state, and federal requirements.

14. TRANSPORT INFORMATION

CANADIAN TDG INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard
A fire hazard

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

(Continued on page 6 , over)
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REGULATORY INFORMATION (CONTINUED)

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
Proprietary alkylamine		

HMIRA INFORMATION: A claim for exemption from ingredient disclosure has been filed under the Hazardous Materials Information Review Act (Canada). The Hazardous Materials Information Review Commission registry number, and date, assigned to this claim are:

Claim Registry Number: 3499 Filing Date: June 29, 1994

16. OTHER INFORMATION

PRODUCT USE: Gas conditioning solvent.

REVISION INDICATOR: Revised section 15

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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

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DOW

The Dow Chemical Company
Midland, Michigan 48674

Material Safety Data Sheet

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-Hour Emergency Phone Number: 517-636-4400

Product: GAS/SPEC (R) CS-PLUS SOLVENT

Product Code: 13693

Effective Date: 06/30/94 Date Printed: 01/10/95 MSD: 003430

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Methyldiethanolamine	CAS# 000105-59-9	60-70%
Proprietary Alkylamine		
Water	CAS# 007732-18-5	2.0% MAX

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

****
* Causes severe eye and skin burns. Causes severe burns of the mouth *
* and throat. May be harmful if swallowed. May cause respiratory *
* tract irritation. Combustible liquid and vapor. *
****

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: Due to the pH of the material, it is assumed that exposure may cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

SKIN: Short single exposure may cause severe skin burns. Classified as corrosive according to DOT. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The dermal LD50 has not been determined.

INGESTION: Single dose oral toxicity considered to be low. The oral LD50 for rats is >1000 mg/kg. Small amounts swallowed incidental to normal handling are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion

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may cause burns of mouth and throat. Observations in animals include liver and kidney effects.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:
No relevant information found.

TERATOLOGY (BIRTH DEFECTS): Contains component(s) which did not cause birth defects or any other fetal effects in lab animals.

CANCER INFORMATION:
No relevant information found.

REPRODUCTIVE EFFECTS:
No relevant information found.

4. FIRST AID

EYES: Wash eyes immediately and continuously until assistance arrives for transport to medical facility; wash enroute, if possible. If medical assistance is not immediately available, wash for 30 minutes and seek medical attention immediately.

SKIN: Immediate continued and thorough washing in flowing water for 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

INHALATION: Remove to fresh air if effects occur. Consult physician.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. Eye irrigation may be necessary for an extneded period of time to remove as much caustic as possible. Duration of irrigation and treatment is at the discretion of medical personnel. May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

(Continued on page 3)
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FLASH POINT: 192F, 88.9C
METHOD USED: PMCC

FLAMMABLE LIMITS
LFL: Not established
UFL: Not established

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, foam. For large scale fires, alcohol resistant foams are preferred if available. General purpose synthetic foams or protein foams may function, but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain fire run off water.

FIRE AND EXPLOSION HAZARDS: Keep unnecessary people away; isolate hazard area and deny unnecessary entry. Highly toxic fumes are released in fire situations. Fire water run off may be toxic. See environmental section of this MSDS. When using water spray, boil over may occur when the product temperature reaches the boiling point of water (tank type scenarios, not spills). See also "storage and handing" section of this MSDS.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

ACTION TO TAKE FOR SPILLS: Wash with small amounts of water. Dike to avoid contamination of sewer with large amounts, soak up with absorbent material, scoop into drums. Keep out of sewers, storm drains, surface waters and soil.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Will produce flammable vapors above the flash

(Continued on page 4 , over)
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point.

STORAGE:
Store in a tightly closed container, away from sunlight, in a cool, dry and well ventilated area. Keep away from strong acids and oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINE(S): None established.

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

EYE PROTECTION: Use chemical goggles. Wear a face shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes. Eye wash fountain should be located in immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	:	183C, 361F
VAPOR PRESSURE	:	0.5 mmHg @ 25C
VAPOR DENSITY	:	3.5
SOLUBILITY IN WATER	:	Complete
SPECIFIC GRAVITY	:	1.01 @ 25/25C
FREEZING POINT	:	-23.1C
APPEARANCE	:	Pale straw liquid
ODOR	:	Amine odor

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Stable, avoid heat, sparks, and open flames.

(Continued on page 5)
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INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Acids, strong oxidizers, halogenated hydrocarbons.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon dioxide, toxic carbon monoxide and nitrogen oxides. Unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

MUTAGENICITY
No relevant information found.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

No data available at MSDS effective date.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL METHOD: Do not dump into any sewers, on the ground, or into any body of water. For unused or uncontaminated material, the preferred waste management options are to send to a licensed recycler, reclaimer, or incinerator. The same waste management options are recommended for used or contaminated material, although additional evaluation is required (in the U.S. see for example, 40 CFR, Part 261, "Identification and Listing of Hazardous Waste").

Any disposal practice must be in compliance with federal, state/provincial, and local laws and regulations. State/provincial and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Chemcial additions, processing, storage, or otherwise altering this material may make the waste management information presented in this MSDS incomplete or otherwise inappropriate. As a service to its customers, Dow can provide lists of companies which recycle, reprocess or manage chemicals. In the U.S. telephone Dow's Customer Information Center at 800/258-2436 for further details.

14. TRANSPORT INFORMATION

(Continued on page 6 , over)
(R) Indicates a Trademark of The Dow Chemical Company

CANADIAN TDG INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A fire hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on

(Continued on page 7)
(R) Indicates a Trademark of The Dow Chemical Company

REGULATORY INFORMATION (CONTINUED)

certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
PROPRIETARY INGREDIENT	PROPRIETARY	PAI

PAI=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

B3 - combustible liquid with a flash point between 37.8C and 93.3C
E - corrosive to metal or skin
Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

- - - - -

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

- - - - -

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
Methyldiethanolamine	CAS# 000105-59-9	60-70%
Proprietary Alkylamine		

HMIRA INFORMATION: A claim for exemption from ingredient disclosure has been filed under the Hazardous Materials Information Review Act (Canada). The Hazardous Materials Information Review Commission registry number, and date, assigned to this claim are:

(Continued on page 8 , over)
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REGULATORY INFORMATION (CONTINUED)

Claim Number: 3500 Filing Date: June 29, 1994

16. OTHER INFORMATION

MSDS STATUS: Revised section 15

PRODUCT USE: Gas conditioning solvent.

(R) Indicates a Trademark of The Dow Chemical Company
The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

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MATERIAL SAFETY DATA SHEET

ETHYLENE GLYCOL

1	HMIS HEALTH
1	HMIS FLAMMABILITY
0	HMIS REACTIVITY
B	HMIS PERSONAL PROTECTION

SECTION I - IDENTIFICATION

DISTRIBUTED BY.....	COASTAL CHEMICAL COMPANY, INC. (318) 893-3862
EMERGENCY PHONE NUMBER...	(318) 893-3862 OR CHEMTREC (800) 424-9300
EFFECTIVE DATE.....	2/06/1996
MANUFACTURER'S NAME.....	UNION CARBIDE DOW CHEMICAL TEXACO OXY-PETROCHEMICAL
TRADE NAME.....	ETHYLENE GLYCOL
CHEMICAL FAMILY.....	GLYCOL
CAS NUMBER.....	107-21-1
CHEMICAL FORMULA.....	HOCH2CH2OH

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
ETHYLENE GLYCOL	100%	ACGIH CEILING 50ppm	107-21-1

SECTION III - PHYSICAL DATA

FREEZING POINT (F).....	9 DEG F
VAPOR PRESSURE (mm Hg)...	0.12 MMHG @ 25 C
VAPOR DENSITY (Air=1)....	2.14
SOLUBILITY IN H20.....	COMPLETELY MISCIBLE
APPEARANCE/ODOR.....	COLORLESS LIQUID; PRACTICALLY ODORLESS
SPECIFIC GRAVITY (H20=1).	1.1155 @ 20/20 C
PH.....	N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT.....	247 DEG F
LOWER FLAME LIMIT.....	N/D
HIGHER FLAME LIMIT.....	N/D
EXTINGUISH MEDIA.....	Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO2).
UNUSUAL FIRE HAZARD.....	NONE KNOWN Approach fire from upwind side. Avoid breathing smoke ,fumes, mist or vapors on the downwind side.

MATERIAL SAFETY DATA SHEET

ETHYLENE GLYCOL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.... 50 PPM BASED ON ETHYLENE GLYCOL

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	IRRITANT, POSSIBLY NARCOTIC	Not expected to cause significant health hazard	Ingestion of very large amounts could cause serious injury,or even death.

HEALTH HAZARDS..... ACUTE: Vapors may be irritating to eyes, or mucous membranes. Avoid inhalation or eye contact. CHRONIC: Kidney and liver damage possible. May cause reproductive disorders.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATED
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact. Symptoms of overexposure: headache, fatigue, nausea, irritation of respiratory tract, dizziness, staggering gait, confusion, unconsciousness.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable

CONDITIONS TO AVOID..... Heat may cause internal pressure which could rupture container.

INCOMPATIBLE MATERIALS... Oxidizers or Oxidizing Materials. Alkaline Materials.

DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide

ZARDOUS POLYMERIZATION. Will not occur

OLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL.....	In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations
WASTE DISPOSAL METHOD....	Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION...	When ventilation is not adequate, use of NIOSH approved organic vapor/acid gas cartridge respirator is recommended.
VENTILATION.....	Required in closed areas
MECHANICAL EXHAUST.....	Required in closed areas
LOCAL EXHAUST.....	Desired
PROTECTIVE GLOVES.....	Wear impervious gloves
EYE PROTECTION.....	Use chemical goggles or full face shield.
OTHER PROTECTIVE EQUIPMENT.....	Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE.....	Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.
PRECAUTIONARY MEASURES...	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.
HAZARD CLASS.....	Drums - NOT REGULATED Bulk - Class 9
DOT SHIPPING NAME.....	Drum - Ethylene Glycol Bulk - Other regulated substances, liquid, n.o.s. (ethylene glycol)
REPORTABLE QUANTITY (RQ).	5,000 pounds
UN NUMBER.....	None
NA #.....	Drums - None; Bulk - NA3082
PACKAGING SIZE.....	N/A

SECTION X - REGULATORY

MATERIAL SAFETY DATA SHEET

ETHYLENE GLYCOL

EPA ACUTE	YES
EPA CHRONIC	YES
EPA IGNITABILITY	NO
EPA REACTIVITY	NO
EPA SUDDEN RELEASE OF PRESSURE	NO
CERCLA RQ VALUE	5,000 pounds
SARA TPQ	None
SARA RQ	None
SECTION 313	YES, ETHYLENE GLYCOL 107-21-1 100%
EPA HAZARD WASTE #	None
CLEANAIR	Yes, Section 111 and 1990 Amendments
CLEAN WATER	No

FOOT NOTES N/A - not applicable N/D - no data available
< - means less than > - means greater than
App. - approximate Est. - estimated

PREPARED BY: Joe Hudman, Coastal Chemical Co., Inc. 713-477-6675

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMER IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

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MATERIAL SAFETY DATA SHEET

COASTALGUARD 100 ANTIFREEZE/COOLANT

1 HMIS
1 HMIS
0 HMIS
B HMIS

100%

ic. 713-477-6675

SIST OUR CUSTOMERS
REGULATIONS. THE
AND IS BELIEVED
OR IMPLIED BY THE
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OVERNMENTAL

SECTION I - IDENTIFICATION

DISTRIBUTED BY.....	COASTAL CHEMICAL CO., INC. (318)893-3862
EMERGENCY PHONE NUMBER...	CHEMTREC (800)424-9300
EFFECTIVE DATE.....	2/06/1996
MANUFACTURER'S NAME.....	COASTAL CHEMICAL CO., INC.
TRADE NAME.....	COASTALGUARD 100 ANTIFREEZE/COOLANT
CHEMICAL FAMILY.....	INHIBITED ETHYLENE GLYCOL SOLUTION
CAS NUMBER.....	Blended Product
CHEMICAL FORMULA.....	Blended Product

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)
ETHYLENE GLYCOL	95 %	ACGIH CEILING 50ppm

SECTION III - PHYSICAL DATA

FREEZING POINT (F).....	APPROX. 22 DEG F
VAPOR PRESSURE (mm Hg)...	0.12 MMHG @ 25 C
VAPOR DENSITY (Air=1)....	2.14
SOLUBILITY IN H20.....	COMPLETELY MISCIBLE
APPEARANCE/ODOR.....	YELLOW/GREEN LIQUID; PRACTICALLY OD
SPECIFIC GRAVITY (H20=1).	1.11 typical
PH.....	10.5 - 11.0

SECTION IV - FIRE AND EXPLOSION HAZARD DAT

FLASH POINT.....	APPROX. 247 DEG F
LOWER FLAME LIMIT.....	N/D
HIGHER FLAME LIMIT.....	N/D
EXTINGUISH MEDIA.....	Water fog or spray, Foam, Dry Powde (CO2).
UNUSUAL FIRE HAZARD.....	NONE KNOWN Approach fire from upwin breathing smoke ,fumes, mist or vap downwind side.

SECTION V - HEALTH HAZARD DATA

MATERIAL SAFETY DATA SHEET

COASTALGUARD 100 ANTIFREEZE/COOLANT

THRESHOLD LIMIT VALUE.... 50 PPM BASED ON ETHYLENE GLYCOL

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	IRRITANT, POSSIBLY NARCOTIC	Not expected to cause significant health hazard	Ingestion of very large amounts could cause serious injury,or even death.

HEALTH HAZARDS..... ACUTE: Vapors may be irritating to eyes, or mucous membranes. Avoid inhalation or eye contact. CHRONIC: Kidney and liver damage possible. May cause reproductive disorders.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATED
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact. Symptoms of overexposure: headache, fatigue, nausea, irritation of respiratory tract, dizziness, staggering gait, confusion, unconsciousness.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable
CONDITIONS TO AVOID..... Heat may cause internal pressure which could rupture container.
INCOMPATIBLE MATERIALS... OXIDIZING MATERIALS & OXIDIZERS
DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide
HAZARDOUS POLYMERIZATION. Will not occur
POLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL.....	In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.
WASTE DISPOSAL METHOD....	Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION...	When ventilation is not adequate, use of NIOSH approved organic vapor/acid gas cartridge respirator is recommended.
VENTILATION.....	Required in closed areas
MECHANICAL EXHAUST.....	Required in closed areas
LOCAL EXHAUST.....	Desired
PROTECTIVE GLOVES.....	Wear impervious gloves
EYE PROTECTION.....	Use chemical goggles or full face shield.
OTHER PROTECTIVE EQUIPMENT.....	Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE.....	Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.
PRECAUTIONARY MEASURES...	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.
HAZARD CLASS.....	Drums - Not Regulated Bulk - Class 9
DOT SHIPPING NAME.....	Drums - COASTALGUARD 100 Bulk - Other regulated substances, liquid, n.o.s. (ethylene glycol)
REPORTABLE QUANTITY (RQ).	5000 pounds
UN NUMBER.....	None
NA #.....	Drums - None; Bulk - NA3082
PACKAGING SIZE.....	N/A

SECTION X - REGULATORY

EPA ACUTE.....	YES
EPA CHRONIC.....	YES
EPA IGNITABILITY.....	NO
EPA REACTIVITY.....	NO

EPA SUDDEN RELEASE OF PRESSURE..... NO

CERCLA RQ VALUE..... 5000 pound for ethylene glycol

SARA TPQ..... None
SARA RQ..... None
SECTION 313..... YES, ETHYLENE GLYCOL 107-21-1 95% (1/1/87)

EPA HAZARD WASTE #..... None
CLEANAIR..... Yes, Section 111 Volatile Organic Compounds & Section 112 Statutory Air Pollutants (1990 Amendments)
CLEAN WATER..... No

FOOT NOTES N/A - not applicable N/D - no data available
< - means less than > - means greater than
App. - approximate Est. - estimated

PREPARED BY:..... David Trahan, C.F.T. - 318-898-0001

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

Material Safety Data Sheet

The Dow Chemical Company
Midland, Michigan 48674

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-Hour Emergency Phone Number: 517-636-4400

Product: DIETHANOLAMINE LOW FREEZING GRADE

Product Code: 21106

Effective Date: 03/01/96 Date Printed: 04/27/96 MSD: 000904

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Diethanolamine	CAS# 000111-42-2	85%
Water	CAS# 007732-18-5	15%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless liquid. Slight ammonia odor. Causes eye burns.

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause severe irritation with corneal injury.

SKIN: Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is abraded (scratched or cut). A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Not classified as corrosive according to DOT.

INGESTION: Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Observations in animals include liver and kidney effects following single oral doses. Ingestion may cause gastrointestinal irritation or ulceration.

(Continued on page 2 , over)

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INHALATION: At room temperature, exposures to vapors are minimal due to physical properties; higher temperatures may generate vapor levels sufficient to cause irritation and other effects.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Results from repeated exposure tests on diethanolamine in laboratory animals include anemia (rats) and effects on kidney (rats and mice) and liver (mice). Heart and nervous system effects were also observed in these animals given exaggerated doses. Changes in other organs, causes of which are nonspecific, were judged secondary to the poor health of the animals due to the extremely high doses of diethanolamine given.

TERATOLOGY (BIRTH DEFECTS): Contains component(s) which did not cause birth defects; other fetal effects occurred only at doses toxic to the mother.

4. FIRST AID

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagscopic control. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASH POINT: * None
METHOD USED: Setaflash
AUTOIGNITION TEMPERATURE:

* No flash point observed up to the boiling point. Flash point of

(Continued on page 3)
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diethanolamine is 325F, 163C by Setaflash.

FLAMMABILITY LIMITS
LFL: Not determined.
UFL: Not determined.

HAZARDOUS COMBUSTION PRODUCTS:

EXTINGUISHING MEDIA: Water fog, alcohol foam, CO2, dry chemical.

FIRE FIGHTING INSTRUCTIONS: Not available.

PROTECIVE EQUIPMENT FOR FIRE FIGHTERS: Wear self-contained, possitive-pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Clear non-emergency personnel from the area.

PROTECT THE ENVIRONMENT: Do not allow into sewers, on the ground, or into any body of water.

CLEANUP: Use a noncombustible absorbent such as sand and shovel into suitable containers. Do not use sawdust, wood chips or other cullulosic materials to absorb the spill.

7. HANDLING AND STORAGE

HANDLING: Prevent eye and skin contact. Avoid breathing vapors. Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the auto-ignition temperature possibly resulting in spontaneous combustion.

STORAGE: Do not store in common area with halogenated materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTIVE EQUIPMENT

(Continued on page 4 . over)
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EYE/FACE PROTECTION: Use chemical goggles.

SKIN PROTECTION: When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation. If hands are cut or scratched, use gloves impervious to this material even for brief exposures.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

EXPOSURE GUIDELINE(S): Diethanolamine: ACGIH TLV is 2 mg/m3, skin; OSHA PEL is 3 ppm. PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless liquid.
ODOR: Slight ammoniacal odor.
VAPOR PRESSURE: Low.
VAPOR DENSITY: Not determined.
BOILING POINT: 244F, 118C
SOLUBILITY IN WATER: Completely miscible.
SPECIFIC GRAVITY: 1.08 @ 25/4C
FREEZING POINT: 28F, -2C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal storage conditions.

CONDITIONS TO AVOID: This product should not be heated above 60C in the presence of aluminum due to excessive corrosion and potential chemical reaction releasing flammable hydrogen gas.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizers, strong acids. Product may potentially react with various halogenated organic solvents, resulting in temperature and/or pressure increases.

HAZARDOUS DECOMPOSITION PRODUCTS: Possible nitrogen oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

(Continued on page 5)
(R) Indicates a Trademark of The Dow Chemical Company

SKIN: The LD50 for skin absorption in rabbits is greater than 8,200 mg/kg (for diethanolamine).

INGESTION: The oral LD50 for rats is greater than 680 mg/kg (for diethanolamine).

MUTAGENICITY: In vitro mutagenicity studies were negative. (for diethanolamine).

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: Based largely or completely on data for major component(s). Bioconcentration potential is low (BCF less than 100 or Log Kow less than 3). Log octanol/water patition coefficient (log Kow) is -1.43. Henry's Law Constant (H) is 5.35E-14 atm m3/mol.

DEGRADATION & TRANSFORMATION: Based largely or completely on data for major component(s). Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD greater than 40%). 5-Day biochemical oxygen demand (BOD5) is 0.22 p/p. 10-Day biochemical oxygen demand (BOD10) is 0.74 p/p. 20-Day biochemical oxygen demand (BOD20) is 1.20 p/p. Theoretical oxygen demand (ThOD) is calculated to be 2.13 p/p. Inhibitory concentration (IC50) in OECD "Activated Sludge, Respiration Inhibition Test" (Guideline #209) is > 1000 mg/L. Material is ultimately biodegradable. Reaches more than 70% mineralization in OECD test for inherent biodegradability: Zahn-Wellens; 94% DOC removal in 14 days.

ECOTOXICOLOGY: Based largely or completely on data for major component(s). Material is slightly toxic to aquatic organisms on an acute basis (LC50 between 10 and 100 mg/L in most sensitive species). Acute LC50 for fathead minnow (Pimephales promelas) is 1460-1664 mg/L. Acute LC50 for bluegill (Lepomis macrochirus) is 1850-2100 mg/L. Acute LC50 for water flea (Daphnia magna) is 55-306 mg/L. Acute LC50 for the cladoceran Ceriodaphnia dubia is 30-160 mg/L. Acute LC50 for goldfish (Carassius auratus) is 800 to > 5000 mg/L at pH 9.7 and pH 7.0, respectively. Acute LC50 for mosquito fish (Gambusia affinis) is 1400-1800 mg/L.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

(Continued on page 6 , over)
(R) Indicates a Trademark of The Dow Chemical Company

DISPOSAL: Any disposal practice must be in compliance with all federal, state/provincial, and local laws and regulations. State/provincial and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Regulations may also vary in different locations. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. None of these waste management options should be considered 'arranging for disposal'.

Do not allow into any sewers, on the ground, or into any body of water.

The preferred waste management option is to send to a properly properly licensed or permitted incinerator.

As a service to its customers, Dow can provide lists of companies which recycle, reprocess, or manage chemicals. In the U.S., telephone Dow's Customer Information Center at 517-832-1556 or 800-258-2436 (U.S.) for further details.

14. TRANSPORT INFORMATION

CANADIAN TDG INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

DEPARTMENT OF TRANSPORTATION (D.O.T.):

For DOT regulatory information, if required, consult transportation regulations, product shipping papers or contact your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply

(Continued on page 7)
(R) Indicates a Trademark of The Dow Chemical Company

with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: This product contains the following substances 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:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
DIETHANOLAMINE	000111-42-2	86 %

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
DIETHANOLAMINE	000111-42-2	NJ3 PA1 PA3

NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).
PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).
PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

(Continued on page 8 , over)
(R) Indicates a Trademark of The Dow Chemical Company

REGULATORY INFORMATION (CONTINUED)

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:
Category:

Chemical Name	CAS#	RQ	% in Product
Diethanolamine	000111-42-2	100 lb	85%

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

D2B - eye or skin irritant
Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

- - - - -

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

- - - - -

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
Diethanolamine	CAS# 000111-42-2	85%

16. OTHER INFORMATION

REVISION INDICATOR: Revised section 14.

(R) Indicates a Trademark of The Dow Chemical Company
The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

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District III - (505) 334-6178
1 Rio Brazos Road
[illegible], NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
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(505) 827-7131

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ] Verbal Approval Received: Yes [X] No [ ]	4. Generator KNIGHT OIL TOOL
	5. Originating Site SHOP SUMP
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator P.O. BOX 900 FARMINGTON NM 87499	8. State NM
7. Location of Material (Street Address or ULSTR) #3 CR 5860	

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:

STEAM CLEANER WATER FROM WASHING
DOWNHOLE TOOLS AND RENTAL EQUIPMENT
SOME SOAP IS USED MSDS SHEET ATTACHED

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: MICHAEL TALOVICH TITLE: M&L DATE: 11-5-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/5/98

APPROVED BY: _____ TITLE: Dist. Supv. DATE: 11/5/98

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CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Knight Oil Tool #3 Cuty Rd 5860	SUNCO DISPOSAL
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
yard Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Steam cleaner, circulation unit. contains water, and some soap	

I, Tom Kenworthy (Print Name) representative for: Knight Oil Tools 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-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 only the following documentation is attached (check appropriate items):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Tom Kenworthy

Title: Dispatcher

Date: 11-5-98

MATERIAL SAFETY DATA SHEET

American Sales and Service
5261 West 42nd Street
Odessa, Texas 79764

Telephone 915-381-3740
Emergency:
Chemtrec 800-424-9300

Section 1 PRODUCT IDENTIFICATION

(1) Poduct Name: ANGRY ORANGE-BIODEGRADABLE DEGREASER
(2) Chemical Name/Synonyms: n/a
(3) Chemical family: Alkaline Detergent
(4) Chemical formula: mixture
(5) NFPA Acute hazard rating:
(6) Health: 1 (7) Flammability: 0 (8) Reactivity: 0

Section 2 CHEMICAL COMPOSITION

(1) Ingredient (Chemical Name)	(2) CAS Number	(3) Percent Range	(4) PEL	(5) LD_{50} mg/kg
Sodium Nitrite	7632-00-0	<1.0	n/a	214
Sodium Metasilicate	6834-92-0	<5.0	n/a	250
Sodium Hydroxide	1310-73-2	<2.0	n/a	500
Ethylene Diamine Tetraacetate, Tetrasodium	64-02-8	<1.0	n/a	330
Ethylene Glycol Monobutyl	111-76-2	<7.0	n/a	1200
Balance non-hazardous		>84.0		

Section 3 EMERGENCY AND FIRST AID PROCEDURES

(1) Eye Contact: Rinse for 15 minutes with potable water. If irritation persists, seek medical attention.
(2) Skin Contact: Rinse with water.
(3) Inhalation: Remove victim to source of fresh air. If symptoms persist, seek medical attention.
(4) Ingestion: Seek immediate medical attention.
(5) Special instructions for physician: None.

Section 4 PHYSIOLOGICAL EFFECTS

(1) Primary route (s) of entry into body:
(2) X Skin absorption (3) ___Inhalation (4) ___Ingestion
(5) Acute effects:
(6) Eyes: Blurred vision, redness, watering, burning, blistering.
(7) Skin: Redness.
(8) Inhalation: Irritation, coughing.
(9) Ingestion: Burning sensation, nausea.
(10) Chronic Effects: (include carcinogenic potential) Not known.

Section 5 OCCUPATIONAL CONTROL PROCEDURES

(1) Ventilation:
(2) ___Local exhaust (3) X General Exhaust (4) ___None required
(5) Personal protective equipment:
(6) Respirator type: None required
(7) Gloves: (8) ___Natural rubber (9) ___Plastic (10) ___Nitrile
(11) X Neoprene (12) ___Butyl (13) ___Other
(14) Eye Protection: (15) X Glasses with side shields
(16) ___Full face shield
(17) ___Chemical splash goggles
(18) ___Other: None

Section 6 PHYSICAL DATA

(1) Appearance/Odor: Clear orange liquid
(2) Physical state: (3) ___ Solid (4) x Liquid (5) ___ Gas
(6) Boiling point: 212°F (7) Freeze point: 32°F (8) Specific gravity (H_2O=1): 1.06
(9) pH (full strength): 12.5 (10) pH (dilution): 11.5
(11) Solubility in water: Complete (12) Vapor pressure: 17.5 mm Hg. @20°C
(13) Vapor density (air=1): n/a (14) Evaporation rate (water=1): >1

Section 7 FIRE AND EXPLOSION HAZARD DATA

(1) Flash point: none (2) Method used: C.O.C.
(3) Flammable (explosive) Limits in air: n/a (4) Autoignition temperature: n/a
(5) Suitable extinguishing media: n/a (6) Hazardous combustion by-products: n/a
(7) Recommended fire fighting procedures: n/a (8) Unusual fire & explosion hazards: n/a

Section 8 REACTIVITY DATA

(1) Thermal stability: (2) x Stable (3) ___ Unstable
(4) Conditions to avoid: extreme heat, strong acids
(5) Hazardous decomposition products: none
(6) Hazardous polymerization: (7) ___ May occur (8) x Will not occur
(9) Incompatibility: (10) Materials to avoid: strong acids
(11) Corrosive action on materials: nil on most materials

Section 9 STORAGE AND HANDLING PRECAUTIONS

(1) Storage: Store at temperatures below 120°F.
(2) Handling: Wear chemical resistant gloves, apron and eye and face protection.
(3) Precautionary labeling: none.

Section 10 ENVIRONMENTAL INFORMATION

(1) Spill or leak procedures:
(2) Large spill: Neutralize with acid.
(3) Spill reportable quantity: none.
(4) EPA or appropriate waste classification:
(5) ___ RCRA or appropriate characteristic waste. If so, EPA Hazardous No. none
(6) ___ RCRA or approved listed waste. If so EPA hazardous waste No. none
(7) x Non-RCRA regulated waste.
(8) Procedure for handling empty containers: rinse thoroughly.
(9) Environmental toxicity data: biodegradable.
(10) Other regulatory controls:
(11) Is material classified under the CLEAN WATER ACT (USA) or appropriate water regulations as a: (12) Toxic pollutant (section 307)? ___ Yes x No
(13) Hazardous substance (section 311)? ___ Yes x No
(14) Oil (section 311)? ___ Yes x No
(15) Is material classified under the CLEAN AIR ACT (USA) or appropriate CLEAN AIR REGULATIONS as a: (16) Hazardous air pollutant (section 12)? ___ Yes x No

Section 11 TRANSPORTATION AND SHIPPING REQUIREMENTS

(1) Indicate country/regulatory agency which specifies requirements: x USA-DOT
(2) Proper shipping name: Cleaning compound, liquid N.O.I.B.N.
(3) Hazard class: None (4) Identification No. None
(5) Other Requirements: None

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Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site See List
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR3500 #345 Aztec, NM	8. State NM
7. Location of Material (Street Address or ULSTR) See List	

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:

Non-Exempt wastewater off compressor sites

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Estimated Volume 1600 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: mor DATE: 10-27-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6184

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/3/98

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 10-28-98

29-7 CDP
30-8 CDP
Decker Jct. CDP
29-6 #1 , #2 and #3 DP
31-6 CDP
29-4 #4 CDP
32-7 CDP
32-8 #2 CDP
32-8 #3 CDP
Aztec CDP
30-5 CDP
Carracas CDP
32-9 CDP
Navajo CDP
Cedar Hill CDP
Middle Mesa CDP
PLA #9 CDP
Hart Mnt. Compression
Miranda
Francis Creek #29 -6 #1
Pump Mesa CDP
Sims Mesa CDP
Horse Canyon CDP
Manzanares CDP
Trunk A Booster
Trunk B Booster
Trunk C Booster
Moore Straddle
Kernaghan Straddle
Keraghan - B8
Pritchard

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CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
WILLIAMS FIELD SERVICES 188 CR 4900 BLOOMFIELD, N.MEX. 87413	SUNCO DISPOSAL
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
SEE ATTACHMENT Attach list of originating sites as appropriate	-
4. Source and Description of Waste	
NON-EXEMPT WASTE WATER OFF COMPRESSOR SITES	

I, BILL BEEVERS representative for:
(Print Name)
WILLIAMS FIELD SERVICES 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

_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 only the following documentation is attached (check appropriate items):

___ MSDS Information
_X_ RCRA Hazardous Waste Analysis
_X_ Chain of Custody
___ Other (description):

Name (Original Signature): Bill Beevers

Title: Daly Specialist

Date: 10/27/98

Inter-Mountain Laboratories, Inc.

FAX

Inter-Mountain Laboratories
2506 W. Main Street
Farmington, New Mexico 87401

Date April 22, 1998

Number of pages including cover sheet 4

To:

Bill Beevers

Williams Field Service

Phone

Fax Phone 505-632-4781

CC:

From:

Sharon Williams

Inter-Mountain Laboratories

Phone 505-326-4737

Fax Phone 505-326-4182

REMARKS:

☐ Urgent ☒ For your review ☐ Reply ASAP ☐ Please comment

Bill:

Your TCLP results follow. I apologize for the delay. Call me if you have questions.

Thanks.

Sharon

Client Name: Inter-Mountain Labs, Inc.
Submission #: 9804000047
Project Name: 29-6 #4 CDP/IML-FARMINGTON
Report Date: 04/06/98

Client Sample #: 29-6 #4
Laboratory ID #: 102821 *Order Type: Normal Matrix: Liquid*
Sample Container: *2xVOA Vial*
Sampling Location: *0398 G01561*
Sampling Date : *04/02/98*

TCLP VOLATILES (EPA 8260)
Date analyzed: 04/03/98

C.A.S.#	Analyte	Results(mg/l)	Detection Limit	Haz.Limit
71-43-2	Benzene	**0.18**	0.10	0.5
56-23-5	Carbon Tetrachloride	<0.10	0.10	0.5
108-90-7	Chlorobenzene	<0.10	0.10	100
67-66-3	Chloroform	<0.10	0.10	6.0
106-46-7	1,4-Dichlorobenzene	<0.10	0.10	7.5
107-06-2	1,2-Dichloroethane	<0.10	0.10	0.5
75-35-4	1,1-Dichloroethylene	<0.10	0.10	0.7
78-93-3	Methyl Ethyl Ketone	<0.10	0.10	200.0
127-18-4	Tetrachloroethylene	<0.10	0.10	0.7
79-01-6	Trichloroethylene	<0.10	0.10	0.5
75-01-4	Vinyl Chloride	<0.10	0.10	0.2

Inter-Mountain Laboratories, Inc
2500 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	**Williams Field Service**		
Project:	29-6 #4 CDP	Date Reported:	04/21/98
Sample ID:	Waste Water	Date Sampled:	04/02/98
Laboratory ID:	0398G01561	Date Received:	04/02/98
Sample Matrix:	Water	Date Analyzed:	04/17/98

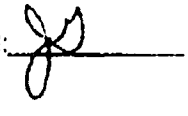
Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	<0.005	0.005	5	mg/L
Barium	0.41	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	<0.01	0.01	5	mg/L
Lead	0.393	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	0.014	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By: 

Reviewed: 

Inter-Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
HSL SEMI-VOLATILE COMPOUNDS

Client: WILLIAMS FIELD SERVICE
Sample ID: 29-6 #4
Project ID: 29-6 # 4 COP
Lab ID: B981487 0398G01561
Matrix: Water

Date Reported: 04/21/98
Date Sampled: 04/02/98
Date Received: 04/03/98
Date Extracted: 01/01/99
Date Analyzed: 01/01/99

Parameter	Result	PQL	Regulatory Level	Units
1,4-Dichlorobenzene	ND	0.1	7.5	mg/L
2,4,5 Trichlorophenol	ND	0.2	400	mg/L
2,4,6-Trichlorophenol	ND	0.2	2.0	mg/L
2,4-Dinitrotoluene	ND	0.1	0.13	mg/L
Hexachloro-1,3 butadiene	ND	0.2	0.5	mg/L
Hexachlorobenzene	ND	0.2	0.13	mg/L
Hexachloroethane	ND	0.2	3.0	mg/L
m,p Cresol	ND	0.1	200	mg/L
Nitrobenzene	ND	0.1	2.0	mg/L
o-Cresol	ND	0.1	200	mg/L
Pentachlorophenol	ND	0.5	100	mg/L
Pyridine	ND	0.2	5.0	mg/L
QUALITY CONTROL - Surrogate Recovery	**%**		**QC Limits**	
2,4,6 Tribromophenol	51		10 - 123	
2-Fluorobiphenyl	45		43 - 116	
2-Fluorophenol	58		21 - 100	
Nitrobenzene-d5	57		35 - 114	
Phenol-d6	69		10 - 94	
Terphenyl-d14	56		33 - 121	

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8270B, Gas Chromatography/Mass Spectrometry for Semivolatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.
Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.

Analyst  Reviewed 

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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site MILARGO Plant
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR3500 #345 AZTEC NM.	8. State NM
7. Location of Material (Street Address or ULSTR) 192 CR 4900 Bloomfield NM 87413	

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:

WASTEWATER FROM EVAPORATION PONDS, DUE TO HEAVY RAINS. THIS IS A NATURAL GAS BREECHMENT PLANT.

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LAST HAULED 8-5-98 ON SAME TEST

Estimated Volume 2000 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Tacovich TITLE: Mgr DATE: 10-27-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TACOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/3/98

APPROVED BY: Martyn J. Ruf TITLE: Env Geologist DATE: 10-28-98

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CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Williams Field Service 295 Chipeta Way Salt Lake City, UT 84158	SUNCO Disposal
3. Originating Site (name): Milagro Plant Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** 192 ee 4900. Bloomfield NM 87413
4. Source and Description of Waste Wastewater from Evaporation Ponds At Natural Gas Treatment Plant	

I, Gerald Brower representative for:
(Print Name)
Williams Field Services (Milagro Plant) 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

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 only the following documentation is attached (check appropriate items):

___ MSDS Information
X RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Gerald M Brower

Title: Plant Superintendent

Date: 10-27-98

Q.W.A.L. LABORATORIES, INC.

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: FAX 1-316-232-7730 OR PHONE 1-316-232-1870

(1) Company Name: Williams Field Services
Attention: Ingrid Deklau
(4) Phone #: 801-584-6543
Address: 295 Chipeta Way (2G1)
Salt Lake City, Ut. 84158
City, State, Zip Code
(4) Fax #: 801-584-7760

(13) TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☐ Standard ☐ 72 Hours ☒ 48 Hours ☐ 24 Hours ☐ Same Day
* Note - Please contact lab for availability of priority service.

(2) Project Name or Number: Milagro Evap PONds
(5) Purchase Order #:

(3) Sampling Personnel Signature(s)
Sampling Personnel (print name): Windy Preston

(12) ANALYSIS REQUEST
(Write Tests Here)

(6) Sample I.D.	Date (7)	Time (7)	(8) Comp.	(8) Grab	(9) # of Containers	(10) Method Preserved: H2SO4	HNO3	NAOH	HCL	Ice	None	(11) Sample Matrix: Water	Soil	Sludge	Other	KCRA METALS	REMARKS
NORTH POND				✓	1					✓						X	Preserve on Site FOR EACH CONTAINER
SOUTH POND				✓	1					✓						X	
WEST POND				✓	1					✓						X	

(14) Relinquished By: Windy Preston — Date — Time
Received By: Kurt Konzen — Date 11-97 — Time
Relinquished By: — Date — Time
Received By: — Date — Time
Relinquished By: — Date — Time
Received By: — Date — Time

(15) Send Report to:
Company: Williams Field Services
Attn: Ingrid Deklau
Address: 295 Chipeta Way (2G1)
City/State: Salt Lake City, UT 84158
Phone: 801-584-6543
Fax: 801-584-7760

(16) Send Invoice to: (if different form report address)
Company:
Attn:
Address:
City/State:
Phone:
Fax:

*FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS

10-OCT-97 12:36PM FROM WMS FIELD SVCS-RIES 316 232 7730 P.6/17 P.4

Q.W.A.L. LABORATORIES, INC.

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: FAX 1-316-232-7730 OR PHONE 1-316-232-1970

1995

(1) Company Name: WILLIAMS FIELD SERVICES (4) Phone #: 801-584-6543
Attention: INGRID DEKLAU
Address: 295 CHIPETA WAY #269 (4) Fax #: 801-584-7760
City, State, Zip Code: SALT LAKE City, UT 84158

(2) Project Name or Number: MILAGRO EVAP PONDS
(5) Purchase Order #:

(3) Sampling Personnel Signature(s): [signature]
Sampling Personnel (print name): WINDY [redacted]

(13) TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☐ Standard ☐ 72 Hours ☒ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

(12) ANALYSIS REQUEST
(Write Tests Here)

(6) Sample I.D.	Date (7)	Time (7)	(8) Comp.	(8) Grab	(9) # of Containers	(10) Method Preserved: H2SO4	HNO3	NAOH	HCL	Ice	None	(11) Sample Matrix: Water	Soil	Air	Sludge	Other	Volatiles (8260)	Semi Volatiles (8270)	RCRA Metals	REMARKS
NORTH POND	9/30			✓	2				✓	✓		✓					X			
SOUTH POND	9/30			✓	2				✓	✓		✓					X			
WEST POND	9/30			✓	2				✓	✓		✓					X			
NORTH POND	9/30				1					✓							X	X		
SOUTH POND	9/30				1					✓							X	X		
WEST POND	9/30				1					✓							X	X		

(14) Relinquished By: [signature] Date: 9/30/97 Time: 2:30 pm
Received By: [signature] Date: 10-1-97 Time: 1:00
Relinquished By: Date: Time:
Received By: Date: Time:
Relinquished By: Date: Time:
Received By: Date: Time:

(15) Send Report to:
Company: WILLIAMS FIELD SERVICES
Attn: INGRID DEKLAU
Address: 295 CHIPETA WAY
City/State: SALT LAKE CITY/UT
Phone: 801 584 6543
Fax: 801 584 7760

(16) Send Invoice to: (if different form report address)
Company:
Attn:
Address:
City/State:
Phone:
Fax:

REMARKS (If special detection limits are required please note below.)

10-OCT 06 '97 12:36PM WAL FIELD SERVICES 316 232 P.7/12 P.5

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 862/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: REFERENCE #: 9710022

SENT TO: WILLIAMS FIELD SERVICES
295 CHIPETA WAY, 201
SALT LAKE CITY, UT 84158
INGRID DECLAU

DATE REPORTED: 10/03/97
DATE COLLECTED: 09/30/97
DATE RECEIVED: 10/01/97
P.O. #:

PROJECT: MILAGRO EVAP PONDS

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.100	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	21.0	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MSZ	
LEAD, TOTAL	SW 846 6010	0.51	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.05	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	100	10/02/97DN	10/01/97
ACENAPHTHYLENE	208-96-8	ND	UG/L	100	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	100	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	500	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	100	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	500	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	100	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	200	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	100	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	100	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	100	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	200	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	200	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	100	10/02/97DN	10/01/97
2-CHLOROPHENOL	95-57-8	ND	UG/L	100	10/02/97DN	10/01/97
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	100	10/02/97DN	10/01/97
CHRYSENE	218-01-9	ND	UG/L	100	10/02/97DN	10/01/97
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	100	10/02/97DN	10/01/97
DIBENZOFURAN	132-64-9	ND	UG/L	100	10/02/97DN	10/01/97
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	100	10/02/97DN	10/01/97

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTE
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	100	10/02/97DN	10/01/9
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	100	10/02/97DN	10/01/9
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	200	10/02/97DN	10/01/9
2,4-DICHLOROPHENOL	120-83-2	ND	UG/L	100	10/02/97DN	10/01/9
DIETHYL PHTHALATE	84-66-2	ND	UG/L	100	10/02/97DN	10/01/9
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	100	10/02/97DN	10/01/9
DIMETHYLPHATHALATE	131-11-3	ND	UG/L	100	10/02/97DN	10/01/9
ISOPHORONE	78-59-1	ND	UG/L	100	10/02/97DN	10/01/9
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	100	10/02/97DN	10/01/9
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	500	10/02/97DN	10/01/9
2,4-DINITROPHENOL	51-28-5	ND	UG/L	500	10/02/97DN	10/01/9
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	100	10/02/97DN	10/01/9
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	100	10/02/97DN	10/01/9
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	100	10/02/97DN	10/01/9
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	100	10/02/97DN	10/01/9
FLUORANTHENE	206-44-0	ND	UG/L	100	10/02/97DN	10/01/9
FLUORENE	86-73-7	ND	UG/L	100	10/02/97DN	10/01/9
HEXACHLOROBENZENE	118-74-1	ND	UG/L	100	10/02/97DN	10/01/9
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	100	10/02/97DN	10/01/9
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	100	10/02/97DN	10/01/9
HEXACHLOROETHANE	67-72-1	ND	UG/L	100	10/02/97DN	10/01/9
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	100	10/02/97DN	10/01/9
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	100	10/02/97DN	10/01/9
2-METHYLPHENOL	95-48-7	ND	UG/L	100	10/02/97DN	10/01/9
4-METHYLPHENOL	106-44-5	ND	UG/L	100	10/02/97DN	10/01/9
NAPHTHALENE	91-20-3	ND	UG/L	100	10/02/97DN	10/01/9
2-NITROANILINE	88-74-4	ND	UG/L	500	10/02/97DN	10/01/9
3-NITROANILINE	99-09-2	ND	UG/L	500	10/02/97DN	10/01/9
4-NITROANILINE	100-01-6	ND	UG/L	500	10/02/97DN	10/01/9
NITROBENZENE	98-95-3	ND	UG/L	100	10/02/97DN	10/01/9
2-NITROPHENOL	88-75-5	ND	UG/L	500	10/02/97DN	10/01/9
4-NITROPHENOL	100-02-7	ND	UG/L	500	10/02/97DN	10/01/9
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	100	10/02/97DN	10/01/9
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	100	10/02/97DN	10/01/9
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	100	10/02/97DN	10/01/9
PENTACHLOROPHENOL	87-86-5	ND	UG/L	500	10/02/97DN	10/01/9
PHENANTHRENE	85-01-8	ND	UG/L	100	10/02/97DN	10/01/9
PHENOL	108-95-2	ND	UG/L	100	10/02/97DN	10/01/9
PYRENE	129-00-0	ND	UG/L	100	10/02/97DN	10/01/9
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	100	10/02/97DN	10/01/9
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	100	10/02/97DN	10/01/9
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	100	10/02/97DN	10/01/9
2-FLUOROBIPHENYL (SUR)	-	44.7	150	10		10/01/9
NITROBENZENE-D8 (SUR)	-	37.9	150	10		10/01/9
2-FLUOROPHENOL (SUR)	-	24.0	150	10		10/01/9
2,4,6-TRIBROMOPHENOL (SUR)	-	23.7	150	10		10/01/9
TERPHENYL-D14 (SUR)	-	63.3	150	10		10/01/9
PHENOL-D5 (SUR)	-	12.0	150	10		10/01/9

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-38-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOMETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-59-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EG	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EG	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EG	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EG	

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EG	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EG	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EG	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EG	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EG	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EG	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE-D4	-	105	125	75		
TOLUENE-d8	-	98	125	75		
4-BROMOFLUOROBENZENE	-	69	125	75		

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.080	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	32.1	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MS2	
LEAD, TOTAL	SW 846 6010	0.95	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.05	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
ACENAPHTHYLENE	208-96-8	ND	UG/L	1000	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	1000	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	1000	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	2000	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	2000	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	2000	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTI
2-CHLOROPHENOL	95-57-8	ND	UG/L	1000	10/02/97DN	10/01/9
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	1000	10/02/97DN	10/01/9
CHRYSENE	218-01-9	ND	UG/L	1000	10/02/97DN	10/01/9
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	1000	10/02/97DN	10/01/9
DIBENZOFURAN	132-64-9	ND	UG/L	1000	10/02/97DN	10/01/9
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	1000	10/02/97DN	10/01/9
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	1000	10/02/97DN	10/01/9
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	1000	10/02/97DN	10/01/9
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	2000	10/02/97DN	10/01/9
2,4-DICHLOROPHENOL	120-83-2	ND	UG/L	1000	10/02/97DN	10/01/9
DIETHYL PHTHALATE	84-66-2	ND	UG/L	1000	10/02/97DN	10/01/9
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	1000	10/02/97DN	10/01/9
DIMETHYLPHTHALATE	131-11-3	ND	UG/L	1000	10/02/97DN	10/01/9
ISOPHORONE	78-59-1	ND	UG/L	1000	10/02/97DN	10/01/9
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	1000	10/02/97DN	10/01/9
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	5000	10/02/97DN	10/01/9
2,4-DINITROPHENOL	51-28-5	ND	UG/L	5000	10/02/97DN	10/01/9
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	1000	10/02/97DN	10/01/9
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	1000	10/02/97DN	10/01/9
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	1000	10/02/97DN	10/01/9
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	1000	10/02/97DN	10/01/9
FLUORANTHENE	206-44-0	ND	UG/L	1000	10/02/97DN	10/01/9
FLUORENE	86-73-7	ND	UG/L	1000	10/02/97DN	10/01/9
HEXACHLOROBENZENE	118-74-1	ND	UG/L	1000	10/02/97DN	10/01/9
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	1000	10/02/97DN	10/01/9
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	1000	10/02/97DN	10/01/9
HEXACHLOROETHANE	67-72-1	ND	UG/L	1000	10/02/97DN	10/01/9
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	1000	10/02/97DN	10/01/9
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	1000	10/02/97DN	10/01/9
2-METHYLPHENOL	95-48-7	ND	UG/L	1000	10/02/97DN	10/01/9
4-METHYLPHENOL	106-44-5	ND	UG/L	1000	10/02/97DN	10/01/9
NAPHTHALENE	91-20-3	ND	UG/L	1000	10/02/97DN	10/01/9
2-NITROANILINE	88-74-4	ND	UG/L	5000	10/02/97DN	10/01/9
3-NITROANILINE	99-09-2	ND	UG/L	5000	10/02/97DN	10/01/9
4-NITROANILINE	100-01-6	ND	UG/L	5000	10/02/97DN	10/01/9
NITROBENZENE	98-95-3	ND	UG/L	1000	10/02/97DN	10/01/9
2-NITROPHENOL	88-75-5	ND	UG/L	5000	10/02/97DN	10/01/9
4-NITROPHENOL	100-02-7	ND	UG/L	5000	10/02/97DN	10/01/9
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	1000	10/02/97DN	10/01/9
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	1000	10/02/97DN	10/01/9
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	1000	10/02/97DN	10/01/9
PENTACHLOROPHENOL	87-86-5	ND	UG/L	5000	10/02/97DN	10/01/9
PHENANTHRENE	85-01-8	ND	UG/L	1000	10/02/97DN	10/01/9
PHENOL	108-95-2	ND	UG/L	1000	10/02/97DN	10/01/9
PYRENE	129-00-0	ND	UG/L	1000	10/02/97DN	10/01/9
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	1000	10/02/97DN	10/01/9
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	1000	10/02/97DN	10/01/9
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	1000	10/02/97DN	10/01/9

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTE
2-FLUOROBIPHENYL (SUR)	-	42.7	150	10		10/01/9
NITROBENZENE-D8 (SUR)	-	42.6	150	10		10/01/9
2-FLUOROPHENOL (SUR)	-	2.80 Q	150	10		10/01/9
2,4,6-TRIBROMOPHENOL (SUR)	-	23.7	150	10		10/01/9
TERPHENYL-D14 (SUR)	-	58.7	150	10		10/01/9
PHENOL-D5 (SUR)	-	0 Q	150	10		10/01/9
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-48-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOMETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-69-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EG	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EG	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EG	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EG	
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EG	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EG	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EG	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EG	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EG	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EG	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE-D4	-	99	125	75		
TOLUENE-d8	-	97	125	75		
4-BROMOFLUOROBENZENE	-	82	125	75		

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.030	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	75.5	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MS2	
LEAD, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.005	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
ACENAPHTHYLENE	208-96-8	ND	UG/L	1000	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	1000	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	1000	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	2000	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTE
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	1000	10/02/97DN	10/01/9
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	1000	10/02/97DN	10/01/9
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	1000	10/02/97DN	10/01/9
4-CHLOROANILINE	106-47-8	ND	UG/L	2000	10/02/97DN	10/01/9
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	2000	10/02/97DN	10/01/9
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	1000	10/02/97DN	10/01/9
2-CHLOROPHENOL	95-57-8	ND	UG/L	1000	10/02/97DN	10/01/9
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	1000	10/02/97DN	10/01/9
CHRYSENE	218-01-9	ND	UG/L	1000	10/02/97DN	10/01/9
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	1000	10/02/97DN	10/01/9
DIBENZOFURAN	132-64-9	ND	UG/L	1000	10/02/97DN	10/01/9
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	1000	10/02/97DN	10/01/9
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	1000	10/02/97DN	10/01/9
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	1000	10/02/97DN	10/01/9
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	2000	10/02/97DN	10/01/9
2,4-DICHLOROPHENOL	120-83-2	ND	UG/L	1000	10/02/97DN	10/01/9
DIETHYL PHTHALATE	84-66-2	ND	UG/L	1000	10/02/97DN	10/01/9
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	1000	10/02/97DN	10/01/9
DIMETHYLPHTHALATE	131-11-3	ND	UG/L	1000	10/02/97DN	10/01/9
ISOPHORONE	78-59-1	ND	UG/L	1000	10/02/97DN	10/01/9
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	1000	10/02/97DN	10/01/9
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	5000	10/02/97DN	10/01/9
2,4-DINITROPHENOL	51-28-5	ND	UG/L	5000	10/02/97DN	10/01/9
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	1000	10/02/97DN	10/01/9
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	1000	10/02/97DN	10/01/9
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	1000	10/02/97DN	10/01/9
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	1000	10/02/97DN	10/01/9
FLUORANTHENE	206-44-0	ND	UG/L	1000	10/02/97DN	10/01/9
FLUORENE	86-73-7	ND	UG/L	1000	10/02/97DN	10/01/9
HEXACHLOROBENZENE	118-74-1	ND	UG/L	1000	10/02/97DN	10/01/9
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	1000	10/02/97DN	10/01/9
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	1000	10/02/97DN	10/01/9
HEXACHLOROETHANE	67-72-1	ND	UG/L	1000	10/02/97DN	10/01/9
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	1000	10/02/97DN	10/01/9
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	1000	10/02/97DN	10/01/9
2-METHYLPHENOL	95-48-7	ND	UG/L	1000	10/02/97DN	10/01/9
4-METHYLPHENOL	106-44-5	ND	UG/L	1000	10/02/97DN	10/01/9
NAPHTHALENE	91-20-3	ND	UG/L	1000	10/02/97DN	10/01/9
2-NITROANILINE	88-74-4	ND	UG/L	5000	10/02/97DN	10/01/9
3-NITROANILINE	99-09-2	ND	UG/L	5000	10/02/97DN	10/01/9
4-NITROANILINE	100-01-6	ND	UG/L	5000	10/02/97DN	10/01/9
NITROBENZENE	98-95-3	ND	UG/L	1000	10/02/97DN	10/01/9
2-NITROPHENOL	88-75-5	ND	UG/L	5000	10/02/97DN	10/01/9
4-NITROPHENOL	100-02-7	ND	UG/L	5000	10/02/97DN	10/01/9
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	1000	10/02/97DN	10/01/9
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	1000	10/02/97DN	10/01/9
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	1000	10/02/97DN	10/01/9
PENTACHLOROPHENOL	87-86-5	ND	UG/L	5000	10/02/97DN	10/01/9

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
PHENANTHRENE	85-01-8	ND	UG/L	1000	10/02/97DN	10/01/97
PHENOL	108-95-2	ND	UG/L	1000	10/02/97DN	10/01/97
PYRENE	129-00-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	1000	10/02/97DN	10/01/97
2-FLUOROBIPHENYL (SUR)	-	47.5	150	10		10/01/97
NITROBENZENE-D5 (SUR)	-	50.8	150	10		10/01/97
2-FLUOROPHENOL (SUR)	-	0 Q	150	10		10/01/97
2,4,6-TRIBROMOPHENOL (SUR)	-	26.4	150	10		10/01/97
TERPHENYL-D14 (SUR)	-	61.7	150	10		10/01/97
PHENOL-D5 (SUR)	-	1.10 Q	150	10		10/01/97
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-48-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOMETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-59-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EG	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EG	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EG	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EG	
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EG	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EG	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EG	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EG	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EG	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EG	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE-D4	-	101	125	75		
TOLUENE-d8	-	96	125	75		
4-BROMOFLUOROBENZENE	-	83	125	75		

ND=NONE DETECTED
DL=DETECTION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SUR=SURROGATE

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

REFERENCE #: 9710022 PAGE: 10

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ] 10-13-98 D. Foust Verbal Approval Received: Yes [X] No [ ]	4. Generator Baker oil tools 5. Originating Site YARD
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500, AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) 1732 E. MAIN ST. FARMINGTON, NM	

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:

WASH WATER FROM WASHING DOWNHOLE TOOLS

RECEIVED
OCT 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: MANAGER DATE: 10-13-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 10/19/98

APPROVED BY: Ernie Busch TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Baker Oil Tools 1732 E MAIN ST. Farmington N.M. 87401	SUNCO DISPOSAL
3. Originating Site (name): Yard Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** Same As Generator Address
4. Source and Description of Waste RGF unit: Waste water from washing down hole Tools.	

I, Patrick L. Mitchell representative for:
(Print Name)
Baker Oil Tools. 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)

X **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 only the following documentation is attached (check appropriate items):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Patrick L Mitchell

Title: Operations Coordinator

Date: 10/12/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

En

New Mexico
Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
OCT 05 1998
Oil Conservation Division

Form C
Originated

Submit C
Plus
to appr
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator UNIVERSAL COMPRESSI
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site YARD
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) 1125 US HWY 550 AZTEC, NM 87410	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from th Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis t PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous b listing or testing will be approved.

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

BRIEF DESCRIPTION OF MATERIAL:

WASH WATER FROM COMPRESSOR CLEANING

RECEIVED
OCT 6 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 150 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: MGR DATE: 9-29-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/30/98

APPROVED BY: Martyn J. Kieling TITLE: Env. Geologist DATE: 10-5-98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-
Originated 8

Submit Or
Plus 1
to appro
District C

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator UNIVERSAL COMPRESSION
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site YARD
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) 1125 US HWY 550 Aztec, NM 87410	

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:

WASH WATER FROM COMPRESSOR CLEANING

RECEIVED
SEP 29 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 150 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: MGR DATE: 9-29-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

RECEIVED
SEP 29 1998
OIL CON. DIV.
DIST. 3

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Universal Compression 1125 US Hwy 550 Aztec, N.M. 87410	Sunco Disposal
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
Universal Compression 1125 U.S. Hwy 550 Aztec, N.M. 87410 Attach list of originating sites as appropriate	→ SAME
4. Source and Description of Waste	
Waste water from washing compressors.	

I, Gregg A. Self (Print Name) representative for:

Universal Compression 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

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 only the following documentation is attached (check appropriate items):

___ MSDS Information
X RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Gregg A Self

Title: Sales & Service Coordinator

Date: 9-29-98

ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Universal Compressor	Project #:	98059-2
Sample ID:	Wash Bay Solids	Date Reported:	09-13-98
Lab ID#:	D900	Date Sampled:	09-04-98
Sample Matrix:	Soil	Date Received:	09-04-98
Preservative:	Cool	Date Analyzed:	09-13-98
Condition:	Cool & Intact	Chain of Custody:	6261

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.59**
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: **Flora Vista, NM.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Universal Compressor	Project #:	98059-02
Sample ID:	Wash Bay Solids	Date Reported:	09-14-98
Laboratory Number:	D900	Date Sampled:	09-04-98
Chain of Custody:	6261	Date Received:	09-04-98
Sample Matrix:	Soil	Date Extracted:	09-13-98
Preservative:	Cool	Date Analyzed:	09-14-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	**0.0659**	**0.0001**	**0.2**
1,1-Dichloroethene	**0.0046**	**0.0001**	**0.7**
2-Butanone (MEK)	**0.107**	**0.0001**	**200**
Chloroform	**0.0009**	**0.0001**	**6.0**
Carbon Tetrachloride	**0.0021**	**0.0001**	**0.5**
Benzene	**0.0003**	**0.0001**	**0.5**
1,2-Dichloroethane	**0.0004**	**0.0001**	**0.5**
Trichloroethene	**0.0008**	**0.0003**	**0.5**
Tetrachloroethene	**0.0031**	**0.0005**	**0.7**
Chlorobenzene	**0.0003**	**0.0003**	**100**
1,4-Dichlorobenzene	**0.0042**	**0.0002**	**7.5**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	**98%**
	Bromofluorobenzene	**99%**

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: **Flora Vista, NM.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Universal Compressor	Project #:	98059-2
Sample ID:	Wash Bay Solids	Date Reported:	09-16-98
Laboratory Number:	D900	Date Sampled:	09-04-98
Chain of Custody:	6261	Date Received:	09-04-98
Sample Matrix:	Soil	Date Extracted:	09-13-98
Preservative:	Cool	Date Analyzed:	09-16-98
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	0.125	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	0.024	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	101%
	2,4,6-Tribromophenol	100%

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: **Flora Vista, NM.**

Analyst

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ENV ROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA hod 90
Nitroaromatics and Cyclic Ketones
TCLP Base/Neutral Organics

Client:	Universal Compressor	Project #:	98059-2
Sample ID:	Wash Bay Solids	Date Reported:	09-15-98
Laboratory Number:	D900	Date Sampled:	09-04-98
Chain of Custody:	6261	Date Received:	09-04-98
Sample Matrix:	Soil	Date Extracted:	09-13-98
Preservative:	Cool	Date Analyzed:	09-15-98
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	**98%**

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: **Flora Vista, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Universal Compressor	Project #:	98059-2
Sample ID:	Wash Bay Solids	Date Reported:	09-16-98
Laboratory Number:	D900	Date Sampled:	09-04-98
Chain of Custody:	6261	Date Received:	09-04-98
Sample Matrix:	Soil	Date Analyzed:	09-16-98
Preservative:	Cool	Date Extracted:	09-13-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.0001**	**5.0**
Barium	**0.691**	**0.001**	**21**
Cadmium	**0.0748**	**0.0001**	**0.11**
Chromium	**ND**	**0.0001**	**0.60**
Lead	**0.0059**	**0.0001**	**0.75**
Mercury	**ND**	**0.0001**	**0.025**
Selenium	**ND**	**0.0001**	**5.7**
Silver	**ND**	**0.0001**	**0.14**

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 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **Flora Vista, NM.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-14-98
Laboratory Number:	09-14-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-14-98
Condition:	N/A	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
	Trifluorotoluene	100%
	Bromofluorobenzene	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 D897 and D900.**

Analyst

Review Stacy W Sendler

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ENV ROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-14-98
Laboratory Number:	09-13-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-14-98
Condition:	N/A	Date Extracted:	09-13-98
		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
	Trifluorotoluene	99%
	Bromofluorobenzene	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 D897 and D900.**

Analyst

Review Stacy W Sendler

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-14-98
Laboratory Number:	D897	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-14-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.135	0.135	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0002	0.0002	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 samples D897 and D900.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	09-14-98
Laboratory Number:	D897	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-14-98
Condition:	N/A	Date Extracted:	N/A

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%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.135	0.050	0.185	0.0001	100%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0002	0.050	0.0500	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	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 D897 and D900.**

Analyst

Review Stacy W Sendler

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS
Quality Assurance Report
Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-16-98
Laboratory Number:	09-16-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-16-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	101 %
	2,4,6-tribromophenol	100 %

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 samples D897 and D900.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-16-98
Laboratory Number:	09-13-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-13-98
Condition:	Cool & Intact	Date Analyzed:	09-16-98
		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	101%

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 samples D897 and D900.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-16-98
Laboratory Number:	D897	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-13-98
Condition:	Cool & Intact	Date Analyzed:	09-16-98
		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 samples D897 and D900.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	09-15-98
Laboratory Number:	09-15-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-15-98
		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: **QA/QC for samples D897 and D900.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	09-15-98
Laboratory Number:	09-13-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-13-98
Condition:	Cool and Intact	Date Analyzed:	09-15-98
		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: **QA/QC for samples D897 and D900.**

Analyst

Review Stacy W Sendler

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	09-15-98
Laboratory Number:	D897	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-15-98
		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	**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 samples D897 and D900.**

Analyst

Review Stacy W Sendler

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	09-16-TCM QA/QC	Date Reported:	09-16-98
Laboratory Number:	D897	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	09-16-98
Condition:	N/A	Date Extracted:	09-13-98

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Cadmium	ND	ND	0.0001	0.282	0.282	0.2%	0% - 30%
Chromium	ND	ND	0.0001	0.0059	0.0060	1.7%	0% - 30%
Lead	ND	ND	0.0001	0.144	0.144	0.1%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.1000	ND	0.0997	100%	80% - 120%
Barium	1.000	ND	0.999	100%	80% - 120%
Cadmium	0.0500	0.282	0.331	100%	80% - 120%
Chromium	0.0500	0.0059	0.0558	100%	80% - 120%
Lead	0.1000	0.144	0.244	100%	80% - 120%
Mercury	0.0250	ND	0.0249	100%	80% - 120%
Selenium	0.1000	ND	0.0999	100%	80% - 120%
Silver	0.0500	ND	0.0498	100%	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 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples D897 and D900.**

Analyst

Review

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CHA N OF CUS ODY RECOR)

6261

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Universal Compressor	Flora Vista, NM	
Sampler: Kathleen Murphy	Client No. 9805-9-2	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of (2) 8 oz Containers	TCLP w/o H+P						Remarks
Wash Bay Solids	9/4/98	13:30	D900	soil	2	✓						

	Date	Time		Date	Time
Relinquished by: (Signature)	9/4/98	14:00	Received by: (Signature)	9.4.98	1400
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

Roger Anderson

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-13[illegible]
Originated 8/8/9[illegible]

Submit Origina[illegible]
Plus 1 Cop[illegible]
to appropriat[illegible]
District Offic[illegible]

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator FARMINGTON CHEMICAL DISTRIBUTORS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site YARD
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500, AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) 3911 Monroe Rd. FARMINGTON, NM	

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:

Rainwater mixed with small amounts of mag Chloride caustic and Ferrous Chloride

RECEIVED
SEP 14 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: Disposal Mgr. DATE: 9-14-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/15/98

APPROVED BY: Roger Anderson TITLE: Bureau Chief DATE: 9/30/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-13
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator FARMINGTON CHEMICAL DISTRIBUTORS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site YARD
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500, AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) 3911 MONROE Rd. FARMINGTON, NM	

9. Circle One:

(a) 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:

Rainwater mixed with small amounts of Mag Chloride Caustic and Ferrous Chloride

RECEIVED
SEP 14 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: Disposal Mgr. DATE: 9-14-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/15/98

APPROVED BY: _____ TITLE: _____ DATE: _____

45

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Farmington Chem. Dist	Sunco Disposal
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
F.C.D.	3911 Monroe Rd. Farmington N.M.
Attach list of originating sites as appropriate	

4. Source and Description of Waste

Rain Water - mag-chloride - & small amounts of Caustic & Ferrous chl

I, Jerry Hughes representative for:
(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

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 only the following documentation is attached (check appropriate items):

___ MSDS Information
X RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Jerry Hughes

Title: Operations Mgr.

Date: 9/12/98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

September 8, 1998

Mr. Jerry Hughes
Farmington Chemical Distributors (505) 327-0274
3911 Monroe Rd.
Farmington, New Mexico 87401

Project No.: 98081-01

Dear Mr. Hughes,

Enclosed are the analytical results for the sample collected from the location designated as "Farmington - I". One water/mix sample was collected from the designated location by Envirotech personnel on 08/28/98, and received by the Envirotech laboratory on 08/28/98 for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Trace Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 6249 and assigned Laboratory No. D867 for tracking purposes.

The sample was analyzed 08/28/98 through 09/04/98 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.

Stacy W Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enclosure

SWS/sws 98081lb1.wpd

175

ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Farmington Chem. Dist.	Project #:	98081-01
Sample ID:	I	Date Reported:	08-31-98
Lab ID#:	D867	Date Sampled:	08-28-98
Sample Matrix:	Water Mix.	Date Received:	08-28-98
Preservative:	Cool	Date Analyzed:	08-31-98
Condition:	Cool & Intact	Chain of Custody:	6249

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 5.30**
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: **Farmington.**

Analyst

Review Stacy W Sendler

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Farmington Chemical Dist.	Project #:	98081-01
Sample ID:	I	Date Reported:	09-03-98
Laboratory Number:	D867	Date Sampled:	08-28-98
Chain of Custody:	6249	Date Received:	08-28-98
Sample Matrix:	Water Mix	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	09-03-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	0.159	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	0.136	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0082	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
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

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: **Farmington.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Farmington Chem. Dist.	Project #:	98081-01
Sample ID:	I	Date Reported:	09-04-98
Laboratory Number:	D867	Date Sampled:	08-28-98
Chain of Custody:	6249	Date Received:	08-28-98
Sample Matrix:	Water Mix	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	09-04-98
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	102%
	2,4,6-Tribromophenol	101%

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: **Farmington.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Farmington Chemical Dist.	Project #:	98081-01
Sample ID:	I	Date Reported:	09-03-98
Laboratory Number:	D867	Date Sampled:	08-28-98
Chain of Custody:	6249	Date Received:	08-28-98
Sample Matrix:	Water Mix	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	09-03-98
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: **Farmington.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Farmington Chem. Dist.	Project #:	98081-01
Sample ID:	I	Date Reported:	09-08-98
Laboratory Number:	D867	Date Sampled:	08-28-98
Chain of Custody:	6249	Date Received:	08-28-98
Sample Matrix:	Water Mix	Date Analyzed:	09-08-98
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.0001**	**5.0**
Barium	**0.750**	**0.001**	**21**
Cadmium	**0.0412**	**0.0001**	**0.11**
Chromium	**0.117**	**0.0001**	**0.60**
Lead	**ND**	**0.0001**	**0.75**
Mercury	**ND**	**0.0001**	**0.025**
Selenium	**ND**	**0.0001**	**5.7**
Silver	**ND**	**0.0001**	**0.14**

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 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **Farmington.**

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-03-98
Laboratory Number:	09-03-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-03-98
Condition:	N/A	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
	Trifluorotoluene	**100%**
	Bromofluorobenzene	**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 D861, D867 and D882 - D883.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-03-98
Laboratory Number:	09-01-TCV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-03-98
Condition:	N/A	Date Extracted:	09-01-98
		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
	Trifluorotoluene	**99%**
	Bromofluorobenzene	**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 D861, D867 and D882 - D883.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-03-98
Laboratory Number:	D861	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-03-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	0.0114	0.0114	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	15.9	15.9	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	1.41	1.41	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	0.229	0.229	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	0.191	0.191	0.0003	0.0%
1,4-Dichlorobenzene	0.120	0.120	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 D861, D867 and D882 - D883.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	09-03-98
Laboratory Number:	D861	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-03-98
Condition:	N/A	Date Extracted:	N/A

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	0.0114	0.050	0.0609	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0495	0.0001	99%	43-143
2-Butanone (MEK)	15.9	0.050	15.9	0.0001	100%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	1.41	0.050	1.46	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0495	0.0001	99%	51-147
Trichloroethene	0.229	0.050	0.279	0.0003	100%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	0.191	0.050	0.240	0.0003	100%	38-150
1,4-Dichlorobenzene	0.120	0.050	0.169	0.0002	100%	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 D861, D867 and D882 - D883.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS
Quality Assurance Report
Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-04-98
Laboratory Number:	09-04-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-04-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	101 %
	2,4,6-tribromophenol	102 %

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 samples D861, D867 and D882 - D883.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-04-98
Laboratory Number:	09-01-TA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-01-98
Condition:	Cool & Intact	Date Analyzed:	09-04-98
		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	101%
	2,4,6-Tribromophenol	101%

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 samples D861, D867 and D882 - D883.**

Analyst

Review Stacy W Sendler

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-04-98
Laboratory Number:	D861	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-01-98
Condition:	Cool & Intact	Date Analyzed:	09-04-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	**0.22**	**0.22**	**0.020**	**0.0%**
p,m-Cresol	**1.41**	**1.41**	**0.040**	**0.0%**
2,4,6-Trichlorophenol	**1.58**	**1.58**	**0.020**	**0.0%**
2,4,5-Trichlorophenol	**0.74**	**0.74**	**0.020**	**0.0%**
Pentachlorophenol	**0.51**	**0.51**	**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 samples D861, D867 and D882 - D883.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	09-04-98
Laboratory Number:	09-03-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-03-98
		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	**98%**

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 samples D861, D867 and D882 - D883.**

Analyst Review

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ENV ROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	09-04-98
Laboratory Number:	09-01-BN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-01-98
Condition:	Cool and Intact	Date Analyzed:	09-03-98
		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	**98%**

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 samples D861, D867 and D882 - D883.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	09-04-98
Laboratory Number:	D861	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-03-98
		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	**1.27**	**1.26**	**1.0%**	**0.020**
Nitrobenzene	**0.93**	**0.92**	**0.9%**	**0.020**
Hexachlorobutadiene	**6.19**	**6.12**	**1.1%**	**0.020**
2,4-Dinitrotoluene	**3.01**	**2.92**	**3.0%**	**0.020**
HexachloroBenzene	**5.85**	**5.75**	**1.8%**	**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 samples D861, D867 and D882 - D883.**

Analyst Review

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

ENV ROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	09-08-TCM QA/QC	Date Reported:	09-08-98
Laboratory Number:	D861	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	09-08-98
Condition:	N/A	Date Extracted:	09-01-98

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.35	1.35	0.1%	0% - 30%
Cadmium	ND	ND	0.0001	0.0014	0.0014	0.0%	0% - 30%
Chromium	ND	ND	0.0001	0.0094	0.0095	1.1%	0% - 30%
Lead	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	0.0004	0.0004	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.1000	ND	0.0998	100%	80% - 120%
Barium	1.000	1.35	2.35	100%	80% - 120%
Cadmium	0.0500	0.0014	0.0512	100%	80% - 120%
Chromium	0.0500	0.0094	0.0592	100%	80% - 120%
Lead	0.1000	ND	0.100	100%	80% - 120%
Mercury	0.0250	ND	0.0249	100%	80% - 120%
Selenium	0.1000	0.0004	0.1002	100%	80% - 120%
Silver	0.0500	ND	0.0498	100%	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 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples D861, D867, D882 - D884.**

Analyst

Review Stacy W Sendler

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CHA N OF C JS' 'ODY RECORD

6249

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Farmington Chem. Dist.	Farmington	
Sampler: Brad Chesser	Client No. 98081-01	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Temp w/o HC?						Remarks
I	8/28/98	2:15 P.M	D867	H2O mix	5	✓						
II	8/28/98	2:15 P.M		H2O mix	1	✓	Dup					
III	8/28/98	2:15 P.M		H2O mix	1	✓	Dup					
IV	8/28/98	2:15 P.M		H2O mix	1	✓	Dup					
V	8/28/98	2:15 P.M		H2O mix	1	✓	Dup					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jerry Hughes	8/28/98	2:15		8-28-98	14:15
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

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District III - (505) 334-6178
1 Rio Brazos Road
[illegible], NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator SUNCO TRUCKING
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site FRAC TANK STORAGE YARD
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR)	

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:
FRESH WATER MIXED WITH UNUSED KCL FLUID CREATED FROM FRAC TANK RINSE OUTS.

Estimated Volume 800 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] TITLE: MGR DATE: 8-18-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: [signature] TITLE: Geologist DATE: 8/19/98

APPROVED BY: [signature] TITLE: Bus. Chief DATE: 8/21/98

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Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator SUNCO TRUCKING
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site FRAC TANK STORAGE YARD
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR)	

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.

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

BRIEF DESCRIPTION OF MATERIAL:
FRESH WATER MIXED WITH UNUSED KCL FLUID CREATED FROM FRAC TANK RINSE OUTS.

Estimated Volume 800 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: MGR DATE: 8-18-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 8/19/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
SUNCO TRUCKING PIPE YARD CR 3500 AZTEC, NM	SUNCO DISPOSAL
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
SUNCO FRAC TANK STORAGE YARD. Attach list of originating sites as appropriate	FRAC TANK STORAGE YARD
4. Source and Description of Waste	
FRESH WATER MIXED WITH SMALL AMOUNTS OF UNUSED KCL FLUID CREATED FROM FRAC TANK RINSE OUTS.	

I, Michael W. Church (Print Name) representative for: Sunco Trucking 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 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 only the following documentation is attached (check appropriate items):

- X MSDS Information
- ___ RCRA Hazardous Waste Analysis
- ___ Chain of Custody
- ___ Other (description):

Name (Original Signature): Michael W. Church

Title: Regional Manager

Date: 5-18-98

MATERIAL SAFETY DATA SHEET

POTASH
CAUTION: MAY CAUSE SKIN AND EYE IRRITATION

MOAB SALT, Inc.
P.O. Box 1208
Moab, Utah (801) 259-771

TEXASGULF Inc.
3101 Glenwood Avenue
P.O. Box 30321
Raleigh, N.C. 27622-0321 (919) 881-2700

TRANSPORTATION EMERGENCIES: CALL (800) 424-9300 (CHEMTREC)
HEALTH EMERGENICES: CONTACT YOUR LOCAL POISON CENTER

PRODUCT INFORMATION

CHEMICAL NAME AND SYNONYMS
POTASSIUM CHLORIDE

TRADE NAME AND SYNONYMS
POTASH, POTASSIUM MURIATE, MURIATE OF POTASH

CHEMICAL FAMILY
INORGANIC SALT

FORMULA
KC1

CAS NUMBER
7447-40-7

Listed in: _____OSHA SUBPART Z _____ACGIH TLV LISTS; _____NTP LIST;
_____IARC MONOGRAPH; _____X_____NONE OF THE ABOVE

TYPICAL COMPOSITION	%
POTASSIUM CHLORIDE	96.8
SODIUM CHLORIDE	2.8 (CAS #7647-14-5)

PHYSICAL DATA

BOILING POINT (°F)	Sublimes @ 2732	MELTING POINT (°F)	1423
VAPOR PRESSURE (mm Hg.)	N/A	SPECIFIC GRAVITY (H20-1)	1.98
VAPOR DENSITY (AIR-1)	N/A	PERCENT VOLATILE	N/A
SOLUBILITY IN WATER	25% @	EVAPORATION RATE	N/A
APPEARANCE AND ODOR	White crystals or granules, odorless	OTHER	
pH	7 at 1%		

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (METHOD USED)	NOT COMBUSTIBLE	FLAMMABLE LIMITS	LEL N/A
EXTINGUISHING MEDIA	N/A		UEL N/A
SPECIAL FIRE FIGHTING PROCEDURES	NONE		
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE		

HEATLH INFORMATION

THRESHOLD LIMIT VALUE: NONE ESTABLISHED. OHSA total nuisance dust limit of 15 mg/m³ and a respirable faction of 5 mg/m³. The ACGIH nuisance dust TLV of 10 mg/m³ for the 8 hour time weighted average applies.

(N/A - Not Applicable)

EFFECTS OF OVEREXPOSURE EYE-Irritant, SKIN-Slightly irritating. INHALATION-Irritates trachea and upper breathing passages. INGESTION-Large doses and cause G.I. irritation, purging, weakness and circulatory disturbances. Low toxicity. (Toxicity LD50 Rat=3020 mg/kg).

EMERGENCY AND FIRST AID PROCEDURES

EYE-Flush thoroughly with water. Seek medical attention if irritation persists.
SKIN-Wash thoroughly with soap and water.
INHALATION-Remove to fresh air. If discomfort continues, seek medical attention.
INGESTION-If person is conscious, give large amounts of water to drink and induce vomiting. Seek medical attention.

REACTIVITY DATA

STABILITY	☐	UNSTABLE	CONDITIONS TO AVOID	NONE
	☒	STABLE		

INCOMPATABILITY (Materials to Avoid) Strong acids-can cause release of toxic chloride gasses.
HAZARDOUS DECOMPOSITION PRODUCTS None

HAZARDOUS POLYMERIZATION	☐	May Occur	CONDITIONS TO AVOID	NONE
	☒	Will Not Occur		

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Prevent large quantities from contact with water ways or vegetation.

WASTE DISPOSAL METHOD If uncontaminated, recover and reuse product. Consult State or Federal environmental regulatory agencies for acceptable disposal procedures and location.

PERSONAL PROTECTION INFORMATION

EYE-Tight fitting goggles should be worn in dusty areas.
SKIN-If irritation occurs, long sleeves and impervious gloves should be worn.
RESPIRATORY-A NIOSH-approved dust respirator should be used when exposure exceeds the OSHA standard of 15 mg/m³.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING NONE

OTHER PRECAUTIONS Potash is mildly corrosive to steel when wet

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DIST. 3

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ] Verbal Approval Received: Yes [ ] No [X]	4. Generator WOOD GROUP PRESSURE CONTROL 5. Originating Site VALVE REPAIR SHOP SUMP
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) WOOD GROUP PRESSURE CONTROL →	800 SANDSTONE AVE, FARMINGTON, NM

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:

RINSE WATER FROM CLEANING VALVES THAT WERE USED AT WELL LOCATION. FRESH WATER USED DURING CLEANING

Estimated Volume 30 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: MGR DATE: 8-21-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 8/24/98

APPROVED BY: Jamie Bunch TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Wood Group Pressure Control 800 Sandstone Ave, Farmington, NM	SUNCO Disposal
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
Valve Repair shop Attach list of originating sites as appropriate	VALVE REPAIR SHOP
4. Source and Description of Waste	
RINSE WATER FROM CLEANING VALVES BROUGHT IN FROM WELL LOCATIONS. ALL WASHING DONE WITH CITY WATER ONLY. NO CLEANING AGENTS USED.	

I, Carl Dallas (Print Name) representative for: Wood Group Pressure Control 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)

X **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 only the following documentation is attached (check appropriate items):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): [signature]

Title: REGIONAL ADMINISTRATOR

Date: Aug 21, 98

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1000 Rio Brazos Road
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New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ]	4. Generator Williams
Verbal Approval Received: Yes [X] No [ ]	5. Originating Site El Cedro Complex
2. Management Facility Destination Sunco Disposal	6. Transporter Sunco
3. Address of Facility Operator #345 CR3500, Aztec NM	8. State NM
7. Location of Material (Street Address or ULSTR) Hwy 64 M.M. 1005 Blanco, NM 87412	

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:

Rainwater mixed with Amine Treating Fluid

Estimated Volume 400 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: MGR DATE: 8-18-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 8/19/98

APPROVED BY: Ernie Busch TITLE: " DATE: "

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Williams Field Service **El Cedro Complex** **Hwy 64 Mile Marker 100.5** **Blanco, N.M. 87412**	Sun Co Disposal
3. Originating Site (name): El-Cedro Complex Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste AMINE TREATING - 95% RAIN Water - 2.5% Amine - 2.5% Treating TEG	

I, Bill Hargis (Print Name) representative for:

Williams 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)

X **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 only the following documentation is attached (check appropriate items):

__ MSDS Information
__ RCRA Hazardous Waste Analysis
__ Chain of Custody
__ Other (description):

Name (Original Signature): Bill Hargis

Title: Lead Operator

Date: 8/5/98

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to appropr
District O

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator UFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Plant Ponds
2. Management Facility Destination Sunco Disposal	6. Transporter Sunco
3. Address of Facility Operator CR3500 #345 Aztec, NM	8. State NM
7. Location of Material (Street Address or ULSTR) Milagro Plant	

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:

Waste water from evaporation ponds contains: storm-water with small amounts of amine and glycol.

Last hauled 3-11-98 on same test

RECEIVED
AUG 5 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 2500 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: M&C DATE: 8-5-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 8/5/98

APPROVED BY: Roger Anderson TITLE: Bureau Chief DATE: 8/10/98

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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Plant Ponds
2. Management Facility Destination Sunco Disposal	6. Transporter Sunco
3. Address of Facility Operator CR3500 #345 Aztec, NM	8. State NM
7. Location of Material (Street Address or ULSTR) Milagro Plant	

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:

Waste water from evaporation ponds contains storm water with small amounts of amine and glycol.

Last hauled 3-11-98 on same test

RECEIVED
AUG 5 1998
OIL CON. DIV.

Verbal given to move some loads 8/5/98

Estimated Volume 2500 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: M&C DATE: 8-5-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Michael Talovich TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 8/5/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Williams field Service 295 CHIPETA WAY SALT LAKE City, UT 84158	JUNCO DISPOSAL
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
MILAGRO PLANT	192 CR 4900 Bloomfield NM 87413
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
WASTE WATER FROM EVAPORATION PONDS A NATURAL GAS Brechmant Plant	

I, NELSON M Sly III (Print Name) representative for:

WILLIAM FIELD SERVICES 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 waste

X **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste only the following documentation is attached (check appropriate items):

___ MSDS Information
✓ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Nelson M Sly III

Title: Lead MECH

Date: 8-5-98

Q.W.A.L. LABORATORIES, INC.

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: FAX 1-316-232-7730 OR PHONE 1-316-232-1870

(1) Company Name: Williams Field Services
Attention: Ingrid Deklau
Address: 295 Chipeta Way (2G1)
Salt Lake City, Ut. 84158
City, State, Zip Code

(4) Phone #: 801-584-6543
(4) Fax #: 801-584-7760

(13) TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☐ Standard ☐ 72 Hours ☒ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

(12) ANALYSIS REQUEST
(Write Tests Here)

(2) Project Name or Number: Milagro Evap PONds
(5) Purchase Order #:

(3) Sampling Personnel Signature(s):
Sampling Personnel (print name): Windy Preston

(6) Sample I.D.	Date (7)	Time (7)	(8) Comp.	(8) Grab	(9) # of Containers	(10) Method Preserved: H2SO4	HNO3	NAOH	HCL	Ice	None	(11) Sample Matrix: Water	Soil	Sludge	Other	RCRA METALS	REMARKS (If special detection limits are required please note below.)
NORTH POND	9/6			✓	1					✓						X	Reserve on Site FOR EACH CONTAINER
SOUTH POND	9/6			✓	1					✓						X	
WEST POND	9/6			✓	1					✓						X	

(14) Relinquished By: Windy Preston — Date 9/6 — Time 2:30 pm
Received By: [illegible] — Date — Time
Relinquished By: [illegible] — Date 9-7-97 — Time [illegible]
Received By: — Date — Time
Relinquished By: — Date — Time
Received By: — Date — Time

(15) Send Report to:
Company: Williams Field Services
Attn: Ingrid Deklau
Address: 295 Chipeta Way (2G1)
City/State: Salt Lake City, UT 84158
Phone: 801-584-6543
Fax: 801-584-7760

(16) Send Invoice to:
(if different form report address)
Company:
Attn:
Address:
City/State:
Phone:
Fax:

*FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS

10-OCT-97 12:36PM FROM FIELD SVCS-RIES 316 232 7730 P.6/17 P.4

Q.W.A. .. LABORA 'OR ES, INC.

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: FAX 1-316-232-7730 OR PHONE 1-316-232-1970

1115

(1) Company Name: WILLIAMS FIELD SERVICES — (4) Phone #: 801-584-6543
Attention: INGRID DEKLAU
Address: 295 CHIPETA WAY #269 — (4) Fax #: 801-584-7760
City, State, Zip Code: SALT LAKE City, UT 84158

(2) Project Name or Number: MIDAGRO EVAP PONDS
(5) Purchase Order #:

(3) Sampling Personnel Signature(s): [signature]
Sampling Personnel (print name): WINDY [redacted]

(13) TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☐ Standard ☐ 72 Hours ☒ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

(11) ANALYSIS REQUEST
(Write Tests Here)

(6) Sample I.D.	Date (7)	Time (7)	(8) Comp.	(8) Grab	(9) # of Containers	(10) Method Preserved: H2SO4	HNO3	NAOH	HCL	Ice	None	(12) Sample Matrix: Water	Soil	Air	Sludge	Other	Volatiles 8260	Semi Vol (8270)	PCRA Metals	REMARKS
NORTH POND	9/30			✓	2				✓	✓		✓					X			
SOUTH POND	9/30			✓	2				✓	✓		✓					X			
WEST POND	9/30			✓	2				✓	✓		✓					X	[redacted]		
NORTH POND	9/30				1					✓								X		
SOUTH POND	9/30				1					✓								X		
WEST POND	9/30				1					✓								X		

(14) Relinquished By: [signature] Date 9/30 Time 2:20 pm
Received By: [signature] Date 10-1-97 Time 1:00
Relinquished By: Date Time
Received By: Date Time
Relinquished By: Date Time
Received By: Date Time

(15) Send Report to:
Company: WILLIAMS FIELD SERVICES
Attn: INGRID DEKLAU
Address: 295 CHIPETA WAY
City/State: SALT LAKE CITY/UT
Phone: 801 584 6543
Fax: 801 584 7760

(16) Send Invoice to:
(if different form report address)
Company:
Attn:
Address:
City/State:
Phone:
Fax:

*FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS

10-OCT 05 '97 12:36PM WI WILLIAMS FIELD SVCS 316 232 7 P.7/7 P.5

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/ PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: REFERENCE #: 9710022

SENT WILLIAMS FIELD SERVICES
TO: 295 CHIPETA WAY, 201
SALT LAKE CITY, UT 84158
INGRID DECLAU

DATE REPORTED: 10/03/97
DATE COLLECTED: 09/30/97
DATE RECEIVED: 10/01/97
P.O. #:

PROJECT: MILAGRO EVAP PONDS

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.100	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	21.0	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MS2	
LEAD, TOTAL	SW 846 6010	0.51	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.05	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	100	10/02/97DN	10/01/97
ACENAPHTHYLENE	208-96-8	ND	UG/L	100	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	100	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	500	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	100	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	500	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	100	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	100	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	200	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	100	10/02/97DN	10/01/97
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	100	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	100	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	100	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	200	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	200	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	100	10/02/97DN	10/01/97
2-CHLOROPHENOL	95-57-8	ND	UG/L	100	10/02/97DN	10/01/97
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	100	10/02/97DN	10/01/97
CHRYSENE	218-01-9	ND	UG/L	100	10/02/97DN	10/01/97
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	100	10/02/97DN	10/01/97
DIBENZOFURAN	132-64-9	ND	UG/L	100	10/02/97DN	10/01/97
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	100	10/02/97DN	10/01/97

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTE
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	100	10/02/97DN	10/01/9
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	100	10/02/97DN	10/01/9
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	200	10/02/97DN	10/01/9
2,6-DICHLOROPHENOL	120-83-2	ND	UG/L	100	10/02/97DN	10/01/9
DIETHYL PHTHALATE	84-66-2	ND	UG/L	100	10/02/97DN	10/01/9
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	100	10/02/97DN	10/01/9
DIMETHYLPHATHALATE	131-11-3	ND	UG/L	100	10/02/97DN	10/01/9
ISOPHORONE	78-59-1	ND	UG/L	100	10/02/97DN	10/01/9
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	100	10/02/97DN	10/01/9
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	500	10/02/97DN	10/01/9
2,4-DINITROPHENOL	51-28-5	ND	UG/L	500	10/02/97DN	10/01/9
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	100	10/02/97DN	10/01/9
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	100	10/02/97DN	10/01/9
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	100	10/02/97DN	10/01/9
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	100	10/02/97DN	10/01/9
FLUORANTHENE	206-44-0	ND	UG/L	100	10/02/97DN	10/01/9
FLUORENE	86-73-7	ND	UG/L	100	10/02/97DN	10/01/9
HEXACHLOROBENZENE	118-74-1	ND	UG/L	100	10/02/97DN	10/01/9
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	100	10/02/97DN	10/01/9
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	100	10/02/97DN	10/01/9
HEXACHLOROETHANE	67-72-1	ND	UG/L	100	10/02/97DN	10/01/9
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	100	10/02/97DN	10/01/9
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	100	10/02/97DN	10/01/9
2-METHYLPHENOL	95-48-7	ND	UG/L	100	10/02/97DN	10/01/9
4-METHYLPHENOL	106-44-5	ND	UG/L	100	10/02/97DN	10/01/9
NAPHTHALENE	91-20-3	ND	UG/L	100	10/02/97DN	10/01/9
2-NITROANILINE	88-74-4	ND	UG/L	500	10/02/97DN	10/01/9
3-NITROANILINE	99-09-2	ND	UG/L	500	10/02/97DN	10/01/9
4-NITROANILINE	100-01-6	ND	UG/L	500	10/02/97DN	10/01/9
NITROBENZENE	98-95-3	ND	UG/L	100	10/02/97DN	10/01/9
2-NITROPHENOL	88-75-5	ND	UG/L	500	10/02/97DN	10/01/9
4-NITROPHENOL	100-02-7	ND	UG/L	500	10/02/97DN	10/01/9
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	100	10/02/97DN	10/01/9
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	100	10/02/97DN	10/01/9
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	100	10/02/97DN	10/01/9
PENTACHLOROPHENOL	87-86-5	ND	UG/L	500	10/02/97DN	10/01/9
PHENANTHRENE	85-01-8	ND	UG/L	100	10/02/97DN	10/01/9
PHENOL	108-95-2	ND	UG/L	100	10/02/97DN	10/01/9
PYRENE	129-00-0	ND	UG/L	100	10/02/97DN	10/01/9
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	100	10/02/97DN	10/01/9
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	100	10/02/97DN	10/01/9
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	100	10/02/97DN	10/01/9
2-FLUOROBIPHENYL (SUR)	--	44.7	150	10		10/01/9
NITROBENZENE-D5 (SUR)	--	37.9	150	10		10/01/9
2-FLUOROPHENOL (SUR)	--	24.0	150	10		10/01/9
2,4,6-TRIBROMOPHENOL (SUR)	--	23.7	150	10		10/01/9
TERPHENYL-D14 (SUR)	--	63.3	150	10		10/01/9
PHENOL-D5 (SUR)	--	12.0	150	10		10/01/9

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-48-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOMETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-59-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EG	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EG	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EG	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EG	

Sample ID: NORTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EG	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EG	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EG	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EG	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EG	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EG	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE-D4	-	105	125	75		
TOLUENE-d8	-	98	125	75		
4-BROMOFLUOROBENZENE	-	89	125	75		

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.080	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	32.1	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MS2	
LEAD, TOTAL	SW 846 6010	0.95	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.05	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
ACENAPHTHYLENE	208-96-8	ND	UG/L	1000	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	1000	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	1000	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	2000	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	2000	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	2000	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
2-CHLOROPHENOL	95-57-8	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	1000	10/02/97DN	10/01/97
CHRYSENE	218-01-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZOFURAN	132-64-9	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	1000	10/02/97DN	10/01/97
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	2000	10/02/97DN	10/01/97
2,6-DICHLOROPHENOL	120-83-2	ND	UG/L	1000	10/02/97DN	10/01/97
DIETHYL PHTHALATE	84-66-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIMETHYLPHATHALATE	131-11-3	ND	UG/L	1000	10/02/97DN	10/01/97
ISOPHORONE	78-59-1	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	1000	10/02/97DN	10/01/97
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROPHENOL	51-28-5	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORANTHENE	206-44-0	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORENE	86-73-7	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBENZENE	118-74-1	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROETHANE	67-72-1	ND	UG/L	1000	10/02/97DN	10/01/97
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLPHENOL	95-48-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-METHYLPHENOL	106-44-5	ND	UG/L	1000	10/02/97DN	10/01/97
NAPHTHALENE	91-20-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROANILINE	88-74-4	ND	UG/L	5000	10/02/97DN	10/01/97
3-NITROANILINE	99-09-2	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROANILINE	100-01-6	ND	UG/L	5000	10/02/97DN	10/01/97
NITROBENZENE	98-95-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROPHENOL	88-75-5	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROPHENOL	100-02-7	ND	UG/L	5000	10/02/97DN	10/01/97
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	1000	10/02/97DN	10/01/97
PENTACHLOROPHENOL	87-86-5	ND	UG/L	5000	10/02/97DN	10/01/97
PHENANTHRENE	85-01-8	ND	UG/L	1000	10/02/97DN	10/01/97
PHENOL	108-95-2	ND	UG/L	1000	10/02/97DN	10/01/97
PYRENE	129-00-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
2-FLUOROBIPHENYL (SUR)	-	42.7	150	10		10/01/97
NITROBENZENE-D5 (SUR)	-	42.6	150	10		10/01/97
2-FLUOROPHENOL (SUR)	-	2.80 Q	150	10		10/01/97
2,4,6-TRIBROMOPHENOL (SUR)	-	23.7	150	10		10/01/97
TERPHENYL-D14 (SUR)	-	58.7	150	10		10/01/97
PHENOL-D5 (SUR)	-	0 Q	150	10		10/01/97
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-38-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOMETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-69-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	

Sample ID: SOUTH POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EC	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EC	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EC	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EC	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EC	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EC	
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EC	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EC	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EC	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EC	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EC	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EC	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EC	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EC	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EC	
1,2-DICHLOROETHANE-D4	-	99	125	75		
TOLUENE-d8	-	97	125	75		
4-BROMOFLUOROBENZENE	-	82	125	75		

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTED
SILVER, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/02/97MS	
ARSENIC, TOTAL	SW 846 7060	<0.05	MG/L	0.05	10/02/97AC	
BARIUM, TOTAL	SW 846 6010	0.030	MG/L	0.05	10/03/97AC	
CADMIUM, TOTAL	SW 846 6010	<0.05	MG/L	0.05	10/01/97MS	
CHROMIUM, TOTAL	SW 846 6010	75.5	MG/L	0.10	10/01/97MS	
MERCURY, TOTAL	SW 846 7470	<0.0002	MG/L	0.0002	10/02/97MS2	
LEAD, TOTAL	SW 846 6010	<0.10	MG/L	0.10	10/01/97MS	
SELENIUM, TOTAL	SW 846 7740	<0.005	MG/L	0.05	10/01/97AC	
SEMIVOLATILES	SW 846 8270					
ACENAPTHENE	83-32-9	ND	UG/L	1000	10/02/97DN	10/01/97
ACENAPHTHYLENE	208-96-8	ND	UG/L	1000	10/02/97DN	10/01/97
ANTHRACENE	120-12-7	ND	UG/L	1000	10/02/97DN	10/01/97
BENZIDINE	NA	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(A)ANTHRACENE	56-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(B)FLUORANTHENE	205-99-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(K)FLUORANTHENE	207-08-9	ND	UG/L	1000	10/02/97DN	10/01/97
BENZOIC ACID	65-85-0	ND	UG/L	5000	10/02/97DN	10/01/97
BENZO(G,H,I)PERYLENE	50-32-8	ND	UG/L	1000	10/02/97DN	10/01/97
BENZO(A)PYRENE	191-24-2	ND	UG/L	1000	10/02/97DN	10/01/97
BENZYL ALCOHOL	100-51-6	ND	UG/L	2000	10/02/97DN	10/01/97
BIS(2-CHLOROETHOXY)METHAN	111-91-1	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROETHYL)ETHER	111-44-4	ND	UG/L	1000	10/02/97DN	10/01/97
BIS(2-CHLOROISOPROPYL)ETH	39638-32-9	ND	UG/L	1000	10/02/97DN	10/01/97

Sample ID: WEST FORD Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYSED	EXTRACTED
BIS(2-ETHYLHEXYL)PHTHALAT	117-81-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-BROMOPHENYL PHENYL ETHE	101-55-3	ND	UG/L	1000	10/02/97DN	10/01/97
BUTYL BENZYL PHTHALATE	85-68-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROANILINE	106-47-8	ND	UG/L	2000	10/02/97DN	10/01/97
4-CHLORO-3-METHYLPHENOL	59-50-7	ND	UG/L	2000	10/02/97DN	10/01/97
2-CHLORONAPHTHALENE	91-58-7	ND	UG/L	1000	10/02/97DN	10/01/97
2-CHLOROPHENOL	95-57-8	ND	UG/L	1000	10/02/97DN	10/01/97
4-CHLOROPHENYL PHENYL ETH	7005-72-3	ND	UG/L	1000	10/02/97DN	10/01/97
CHRYSENE	218-01-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZ(A,H)ANTHRACENE	53-70-3	ND	UG/L	1000	10/02/97DN	10/01/97
DIBENZOFURAN	132-64-9	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	1000	10/02/97DN	10/01/97
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	1000	10/02/97DN	10/01/97
3,3'-DICHLOROBENZIDINE	91-94-1	ND	UG/L	2000	10/02/97DN	10/01/97
2,4-DICHLOROPHENOL	120-83-2	ND	UG/L	1000	10/02/97DN	10/01/97
DIETHYL PHTHALATE	84-66-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,4-DIMETHYLPHENOL	105-67-9	ND	UG/L	1000	10/02/97DN	10/01/97
DIMETHYLPHATHALATE	131-11-3	ND	UG/L	1000	10/02/97DN	10/01/97
ISOPHORONE	78-59-1	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-BUTYLPHTHALATE	84-74-2	ND	UG/L	1000	10/02/97DN	10/01/97
4,6-DINITRO-2-METHYLPHENO	534-52-1	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROPHENOL	51-28-5	ND	UG/L	5000	10/02/97DN	10/01/97
2,4-DINITROTOLUENE	121-14-2	ND	UG/L	1000	10/02/97DN	10/01/97
2,6-DINITROTOLUENE	606-20-2	ND	UG/L	1000	10/02/97DN	10/01/97
DI-N-OCTYLPHTHALATE	117-84-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2-DIPHENYL HYDRAZINE	122-66-7	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORANTHENE	206-44-0	ND	UG/L	1000	10/02/97DN	10/01/97
FLUORENE	86-73-7	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBENZENE	118-74-1	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	UG/L	1000	10/02/97DN	10/01/97
HEXACHLOROETHANE	67-72-1	ND	UG/L	1000	10/02/97DN	10/01/97
INDENO(1,2,3-CD)PYRENE	193-39-5	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLNAPHTHALENE	91-57-6	ND	UG/L	1000	10/02/97DN	10/01/97
2-METHYLPHENOL	95-48-7	ND	UG/L	1000	10/02/97DN	10/01/97
4-METHYLPHENOL	106-44-5	ND	UG/L	1000	10/02/97DN	10/01/97
NAPHTHALENE	91-20-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROANILINE	88-74-4	ND	UG/L	5000	10/02/97DN	10/01/97
3-NITROANILINE	99-09-2	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROANILINE	100-01-6	ND	UG/L	5000	10/02/97DN	10/01/97
NITROBENZENE	98-95-3	ND	UG/L	1000	10/02/97DN	10/01/97
2-NITROPHENOL	88-75-5	ND	UG/L	5000	10/02/97DN	10/01/97
4-NITROPHENOL	100-02-7	ND	UG/L	5000	10/02/97DN	10/01/97
N-NITROSO-DI-N-PROPYLAMIN	621-64-7	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIPHENYLAMINE(1)	86-30-6	ND	UG/L	1000	10/02/97DN	10/01/97
N-NITROSODIMETHYLAMINE	62-75-9	ND	UG/L	1000	10/02/97DN	10/01/97
PENTACHLOROPHENOL	87-86-5	ND	UG/L	5000	10/02/97DN	10/01/97

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
PHENANTHRENE	85-01-8	ND	UG/L	1000	10/02/97DN	10/01/97
PHENOL	108-95-2	ND	UG/L	1000	10/02/97DN	10/01/97
PYRENE	129-00-0	ND	UG/L	1000	10/02/97DN	10/01/97
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,5-TRICHLOROPHENOL	95-95-4	ND	UG/L	1000	10/02/97DN	10/01/97
2,4,6-TRICHLOROPHENOL	88-06-2	ND	UG/L	1000	10/02/97DN	10/01/97
2-FLUOROBIPHENYL (SUR)	-	47.5	150	10		10/01/97
NITROBENZENE-D5 (SUR)	-	50.8	150	10		10/01/97
2-FLUOROPHENOL (SUR)	-	0 Q	150	10		10/01/97
2,4,6-TRIBROMOPHENOL (SUR)	-	26.4	150	10		10/01/97
TERPHENYL-D14 (SUR)	-	61.7	150	10		10/01/97
PHENOL-D5 (SUR)	-	1.10 Q	150	10		10/01/97
VOLATILE ORGANICS	SW 846 8260					
BENZENE	71-43-2	ND	UG/L	3.0	10/01/97EG	
BROMOBENZENE	108-86-1	ND	UG/L	3.0	10/01/97EG	
BROMOCHLOROMETHANE	74-97-5	ND	UG/L	3.0	10/01/97EG	
BROMODICHLOROMETHANE	75-27-4	ND	UG/L	3.0	10/01/97EG	
BROMOFORM	75-25-2	ND	UG/L	3.0	10/01/97EG	
BROMOMETHANE	74-83-9	ND	UG/L	3.0	10/01/97EG	
n-BUTYLBENZENE	104-51-8	ND	UG/L	3.0	10/01/97EG	
sec-BUTYLBENZENE	135-98-8	ND	UG/L	3.0	10/01/97EG	
tert-BUTYLBENZENE	98-06-6	ND	UG/L	3.0	10/01/97EG	
CARBON TETRACHLORIDE	56-23-5	ND	UG/L	3.0	10/01/97EG	
CHLOROBENZENE	108-90-7	ND	UG/L	3.0	10/01/97EG	
CHLOROETHANE	75-00-3	ND	UG/L	3.0	10/01/97EG	
CHLOROFORM	67-66-3	ND	UG/L	3.0	10/01/97EG	
CHLOROMETHANE	74-87-3	ND	UG/L	3.0	10/01/97EG	
2-CHLOROTOLUENE	95-49-8	ND	UG/L	3.0	10/01/97EG	
4-CHLOROTOLUENE	106-43-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOCHLOROMETHANE	124-38-1	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMO-3-CHLOROPROPA	96-12-8	ND	UG/L	3.0	10/01/97EG	
1,2-DIBROMOETHANE	106-93-4	ND	UG/L	3.0	10/01/97EG	
DIBROMOMETHANE	74-95-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROBENZENE	95-50-1	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROBENZENE	541-73-1	ND	UG/L	3.0	10/01/97EG	
1,4-DICHLOROBENZENE	106-46-7	ND	UG/L	3.0	10/01/97EG	
DICHLORODIFLUOROMETHANE	75-71-8	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHANE	75-34-3	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE	107-06-2	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROETHENE	75-35-4	ND	UG/L	3.0	10/01/97EG	
cis-1,2-DICHLOROETHENE	156-59-4	ND	UG/L	3.0	10/01/97EG	
trans-1,2-DICHLOROETHENE	156-60-5	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROPROPANE	78-87-5	ND	UG/L	3.0	10/01/97EG	
1,3-DICHLOROPROPANE	142-28-9	ND	UG/L	3.0	10/01/97EG	
2,2-DICHLOROPROPANE	594-20-7	ND	UG/L	3.0	10/01/97EG	
1,1-DICHLOROPROPENE	563-58-6	ND	UG/L	3.0	10/01/97EG	
ETHYLBENZENE	100-41-1	ND	UG/L	3.0	10/01/97EG	
HEXACHLOROBUTADIENE	87-68-3	ND	UG/L	3.0	10/01/97EG	

Sample ID: WEST POND Sample Matrix: WATER

TEST	METHOD-CAS #	RESULT	UNITS	DL	ANALYZED	EXTRACTED
ISOPROPYLBENZENE	98-82-8	ND	UG/L	3.0	10/01/97EG	
p-ISOPROPYLTOLUENE	99-87-6	ND	UG/L	3.0	10/01/97EG	
METHYLENE CHLORIDE	75-09-2	ND	UG/L	3.0	10/01/97EG	
NAPHTHALENE	91-20-3	ND	UG/L	3.0	10/01/97EG	
n-PROPYLBENZENE	103-65-1	ND	UG/L	3.0	10/01/97EG	
STYRENE	100-42-5	ND	UG/L	3.0	10/01/97EG	
1,1,1,2-TETRACHLOROETHANE	630-20-6	ND	UG/L	3.0	10/01/97EG	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ND	UG/L	3.0	10/01/97EG	
TETRACHLOROETHENE	127-18-4	ND	UG/L	3.0	10/01/97EG	
TOLUENE	108-88-3	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROBENZENE	87-61-6	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRICHLOROBENZENE	120-82-1	ND	UG/L	3.0	10/01/97EG	
1,1,1-TRICHLOROETHANE	71-55-6	ND	UG/L	3.0	10/01/97EG	
1,1,2-TRICHLOROETHANE	79-00-5	ND	UG/L	3.0	10/01/97EG	
TRICHLOROETHENE	79-01-6	ND	UG/L	3.0	10/01/97EG	
TRICHLOROFLUOROMETHANE	75-69-4	ND	UG/L	3.0	10/01/97EG	
1,2,3-TRICHLOROPROPANE	96-18-4	ND	UG/L	3.0	10/01/97EG	
1,2,4-TRIMETHYLBENZENE	95-63-6	ND	UG/L	3.0	10/01/97EG	
1,3,5-TRIMETHYLBENZENE	108-67-8	ND	UG/L	3.0	10/01/97EG	
VINYL CHLORIDE	75-01-4	ND	UG/L	3.0	10/01/97EG	
TOTAL XYLENES	1330-20-7	ND	UG/L	3.0	10/01/97EG	
1,2-DICHLOROETHANE-D4	-	101	125	75		
TOLUENE-d8	-	96	125	75		
4-BROMOFLUOROBENZENE	-	83	125	75		

ND=NONE DETECTED
DL=DETECTION LIMIT
SU=STANDARD UNITS
*BACKGROUND CONTAMINATION
Q=OUTSIDE LIMITS
B=DETECTED IN METHOD BLANK
SUR=SURROGATE

APPROVED BY: Terry Koester
TERRY KOESTER
LABORATORY DIRECTOR

REFERENCE #: 9710022 PAGE: 10

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Origin 8/8

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AUG 4 1998
OIL CON. DIV.
DIST. 3

Submit Origi
Plus 1 C
for appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator COASTAL CHEMICAL
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site YARD
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR 3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) #10 CR 5911 FARMINGTON, NM	

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:

RINSE WATER MIXED WITH VERY SMALL AMOUNTS OF VIRGIN / UNUSED CHEMICALS

SAME WASTE STREAM AS HAULED 4-9-98

Estimated Volume 240 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] TITLE: MER DATE: 8-4-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALEVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: [signature] TITLE: Geologist DATE: 8/4/98

APPROVED BY: [signature] TITLE: Bureau Chief DATE: 8/10/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
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1000 Rio Brazos Road
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District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

RECEIVED
AUG 4 1998
OIL CON. DIV.
DIST. 3

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator COASTAL CHEMICAL
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site YARD
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
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Estimated Volume 240 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

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Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: _____ TITLE: Geologist DATE: 8/4/98

APPROVED BY: _____ TITLE: _____ DATE: _____

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JUL 29 1998
OIL CON. DIV.
DIST. 3

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Coastal Chemical Co Inc #10 CR 5911 Farmington NM 87401	Sunco Disposal System 345 RD 3500 Aztec NM 87410
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):** Coastal Chemical Co Inc #10 CR 5911 Farmington NM 87401
Attach list of originating sites as appropriate	
4. Source and Description of Waste Rinse water from pump, Hoses and tanks used to deliver virgin chemicals. All chemicals rinsed out are virgin/unused chemicals. Chemicals may include: Alkanolamine, Glycol (TEG & EG) , Antifreeze.	

I, Michael Reams representative for:
(Print Name)
Coastal Chemical Co., Inc 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

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 only the following documentation is attached (check appropriate items):

- X MSDS Information
- ___ RCRA Hazardous Waste Analysis
- ___ Chain of Custody
- ___ Other (description):

Name (Original Signature): Michael Reams

Title: Facility Manager

Date: 7-29-98

Material Safety Data Sheet

The Dow Chemical Company
Midland, Michigan 48674

Dow Chemical U.S.A.* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 55520 Page: 1

Product Name: METHYLDIETHANOLAMINE

Effective Date: 07/12/93 Date Printed: 07/14/93 MSDS:000913

1. INGREDIENTS: (% w/w, unless otherwise noted)

Methyldiethanolamine CAS# 000105-59-9 99%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: 464-491F, 240-255C
VAP PRESS: <1 mmHg @ 20C
VAP DENSITY: 4
SOL. IN WATER: Complete
SP. GRAVITY: 1.04-1.06
APPEARANCE: Pale straw liquid.
ODOR: Amine odor.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 270F, 132C; 269F, 131C
METHOD USED: COC; Setaflash closed cup

FLAMMABLE LIMITS
LFL: Not determined
UFL: Not determined

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, foam. For large scale fires, alcohol resistant foams or protein foams may function, but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain fire run off water. For large scale fires, direct water stream may cause violent frothing, but fine water spray may help control situation.

(Continued on page 2 , over)
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3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

FIRE & EXPLOSION HAZARDS: Keep unnecessary people away; isolate hazard area and deny unnecessary entry. Highly toxic fumes are released in fire situation. Fire water run off may be toxic. When using water spray, boil over may occur when the product temperature reaches the boiling point of water (tank type scenarios, not spills).

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus and full protective equipment.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) No relevant data.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: Possible nitrogen oxides and carbon oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS: Wash small amounts with water. Dike to avoid contamination of sewer system with large amounts. Keep out of sewers, storm drains, surface waters and soil.

DISPOSAL METHOD: ++DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER++. For unused or uncontaminated material, the preferred management options are to send to a licensed recycler, reclaimer, or incinerator. The same management options are recommended for used or contaminated material, although additional evaluation is required. (see, for example, 40 CFR Part 261, "Identification and Listing of Hazardous Waste"). Any disposal practice must be in compliance with federal, state, provincial, and local laws and regulations. Check with appropriate agencies for your location. For additional information, see Section 4 (REACTIVITY DATA) and "REGULATORY INFORMATION".

As a service to its customers, Dow can provide lists of

(Continued on page 3)

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5. ENVIRONMENTAL AND DISPOSAL INFORMATION: (CONTINUED)

companies which recycle, reprocess or manage chemicals and companies that recondition used drums. Telephone Dow's Customer Information Center at 800/258-CHEM (2436) for further details.

6. HEALTH HAZARD DATA:

EYE: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

SKIN CONTACT: Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if confined or skin is abraded.

SKIN ABSORPTION: A single prolonged skin exposure is not likely to result in absorption of harmful amounts. The LD50 for skin absorption in rabbits is >2000 mg/kg.

INGESTION: Single dose oral toxicity is low. The oral LD50 for rats is likely between 2000-3980 mg/kg. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract.

SYSTEMIC & OTHER EFFECTS: No relevant information found.

7. FIRST AID:

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical consultation is essential.

SKIN: Wash off in flowing water or shower. Remove contaminated clothing and wash before reuse.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

(Continued on page 4 , over)

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7. FIRST AID: (CONTINUED)

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

EYE PROTECTION: Use chemical goggles. Eye wash fountain should be located in immediate work area.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion.

MSDS STATUS: Revised sections 3, 5, 9, and Regulatory Information

REGULATORY INFORMATION: (Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard

STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of

New Jersey
Pennsylvania

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

(Continued on page R-2 , over)
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REGULATORY INFORMATION (CONTINUED)

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

D2B

CANADIAN TDG INFORMATION: For guidance, the Transportation of Dangerous Goods Classification for this product is:

Not regulated

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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

* An Operating Unit of The Dow Chemical Company

2

MATERIAL SAFETY DATA SHE
TRIETHYLENE GLYCOL

1	HMIS HEALTH
1	HMIS FLAMMABILITY
0	HMIS REACTIVITY
B	HMIS PERSONAL PROTECTIO

SECTION I - IDENTIFICATION

DISTRIBUTED BY..... COASTAL CHEMICAL COMPANY, INC
P.O. BOX 820
ABBEVILLE, LA 70511-0820
(318) 893-3862

EMERGENCY PHONE NUMBER... (318) 893-3862 OR CHEMTREC (800) 424-9300
EFFECTIVE DATE..... 02/26/90
MANUFACTURER'S NAME..... UNION CARBIDE
DOW CHEMICAL
TEXACO
OXY-PETROCHEMICAL

TRADE NAME..... TRIETHYLENE GLYCOL
CHEMICAL FAMILY..... POLYETHYLENE GLYCOL
CAS NUMBER..... 112-27-6
CHEMICAL FORMULA..... C6H1404

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
TRIETHYLENE GLYCOL	99	None Established	112-27-6

SECTION III - PHYSICAL DATA

FREEZING POINT (F)..... -7 Deg. C., 19 Deg. F.
VAPOR PRESSURE (mm Hg)... (1 mm
VAPOR DENSITY (Air=1).... 5.2, air = 1
SOLUBILITY IN H2O..... Completely soluble in all proportions
APPEARANCE/ODOR..... Clear, colorless, viscous liquid with slight odor.
SPECIFIC GRAVITY (H2O=1). 1.1 @ 77 Deg. F., 25/25 Deg.C
PH..... N/D

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... 350 Deg. F.
LOWER FLAME LIMIT..... 0.9
HIGHER FLAME LIMIT..... 9.2
EXTINGUISH MEDIA..... Use water fog or spray, Alcohol Foam, Dry Powder, Carbon Dioxide (CO2).
UNUSUAL FIRE HAZARD..... Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away. Approach fire from upwind side. Avoid breathing smoke, fumes, mist or vapors on the downwind side.

MATERIAL SAFETY DATA SHE
TRIETHYLENE GLYCOL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.... Recommended 5 MG/M3 based on oil mist.

ROUTES OF ENTRY.	INHALATION?	SKIN?	INGESTION?
	Irritant	Mild irritant	Irritant

HEALTH HAZARDS..... ACUTE: Vapors or liquid may be irritating to skin, eyes, or mucous membranes. Avoid inhalation or skin/eye contact.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATI
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medic attention. Wash clothing before reuse. If swallowed do not induce vomiting, get immediate medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable

CONDITIONS TO AVOID..... Heat may cause internal pressure which could ruptur container.

INCOMPATIBLE MATERIALS... Oxidizers or Oxidizing Materials.

DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide

HAZARDOUS POLYMERIZATION. Will not occur

POLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL..... In case of spillage, absorb with inert material an dispose of in accordance with applicable regulatio

WASTE DISPOSAL METHOD.... Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... When ventilation is not adequate, use of NIOSH approved organic vapor gas cartridge respirator is recommended.

VENTILATION..... Required in closed areas

MECHANICAL EXHAUST..... Required in closed areas

LOCAL EXHAUST..... Desired

PROTECTIVE GLOVES..... Wear impervious gloves

EYE PROTECTION..... Use chemical goggles or full face shield.

OTHER PROTECTIVE
EQUIPMENT..... Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE..... Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.

PRECAUTIONARY MEASURES... Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.

HAZARD CLASS..... Not Regulated
DOT SHIPPING NAME..... Triethylene Glycol
REPORTABLE QUANTITY (RQ). None
UN NUMBER..... None
NA #..... None
PACKAGING SIZE..... N/A

SECTION X - REGULATORY

EPA ACUTE..... YES
EPA CHRONIC..... NO
EPA IGNITABILITY..... NO
EPA REACTIVITY..... NO
EPA SUDDEN RELEASE OF
PRESSURE..... NO

CERCLA RQ VALUE..... None

SARA TPQ..... None
SARA RQ..... None
SECTION 313..... No

EPA HAZARD WASTE #..... None
CLEAN AIR..... Yes Section 111
CLEAN WATER..... No

FOOT NOTES N/A - not applicable N/D - no data available
(- means less than) - means greater than
App. - approximate Est. - estimated

PREPARED BY:..... Glen White, B.I.S., 817-560-4631

TERIAL SAFETY DATA SHEE
TRIETHYLENE GLYCOL

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMER IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

3

MATERIAL SAFETY DATA SHEET
TRIETHLYLENE GLYCOL REPROCESSED

1 HMIS HEALTH
1 HMIS FLAMMABILITY
0 HMIS REACTIVITY
B HMIS PERSONAL PROTECTIO

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CHEMICAL FORMULA..... C6H1404

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
TRIETHYLENE GLYCOL	98	None Established	112-27-6

SECTION III - PHYSICAL DATA

FREEZING POINT (F)..... -7 Deg. C., 19 Deg. F.
VAPOR PRESSURE (mm Hg)... (1 mm
VAPOR DENSITY (Air=1).... 5.2, air = 1
SOLUBILITY IN H2O..... Completely soluble in all proportions
APPEARANCE/ODOR..... Light amber color, viscous liquid with slight order.
SPECIFIC GRAVITY (H2O=1). 1.1 @ 77 Deg. F., 25/25 Deg.C
PH..... N/D

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... 350 Deg. F.
LOWER FLAME LIMIT..... 0.9
HIGHER FLAME LIMIT..... 9.2
EXTINGUISH MEDIA..... Use water fog or spray, Alcohol Foam, Dry Powder, Carbon Dioxide (CO2).
UNUSUAL FIRE HAZARD..... Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away. Approach fire from upwind side. Avoid breathing smoke ,fumes, mist or vapors on the downwind side.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.... Recommended 5 MG/M3 based on oil mist.

MATERIAL SAFETY DATA SHEET
TRIETHLYLENE GLYCOL REPROCESSED

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	Irritant	Mild irritant	Irritant

HEALTH HAZARDS..... ACUTE: Vapors or liquid may be irritating to skin, eyes, or mucous membranes. Avoid inhalation or skin/eye contact.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATE
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medica attention. Wash clothing before reuse. If swallowed, do not induce vomiting, get immediate medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable
CONDITIONS TO AVOID..... Heat may cause internal pressure which could rupture container.
INCOMPATIBLE MATERIALS... Oxidizers or Oxidizing Materials.
DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide.
HAZARDOUS POLYMERIZATION. Will not occur
POLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL..... In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations

WASTE DISPOSAL METHOD.... Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... When ventilation is not adequate, use of NIOSH approved organic vapor gas cartridge respirator is recommended.
VENTILATION..... Required in closed areas
MECHANICAL EXHAUST..... Required in closed areas
LOCAL EXHAUST..... Desired
PROTECTIVE GLOVES..... Wear impervious gloves
EYE PROTECTION..... Use chemical goggles or full face shield.
OTHER PROTECTIVE EQUIPMENT..... Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE.....	Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.
PRECAUTIONARY MEASURES...	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.
HAZARD CLASS.....	NON HAZARDOUS
DOT SHIPPING NAME.....	CHEMICALS, NOS
REPORTABLE QUANTITY (RQ).	None
UN NUMBER.....	None
NA #.....	None
PACKAGING SIZE.....	N/A

SECTION X - REGULATORY

EPA ACUTE.....	YES
EPA CHRONIC.....	NO
EPA IGNITABILITY.....	NO
EPA REACTIVITY.....	NO
EPA SUDDEN RELEASE OF PRESSURE.....	NO
CERCLA RQ VALUE.....	None
SARA TPQ.....	None
SARA RQ.....	None
SECTION 313.....	No
EPA HAZARD WASTE #.....	None
CLEANAIR.....	Yes Section 111
CLEAN WATER.....	No

FOOT NOTES N/A - not applicable N/D - no data available
(- means less than) - means greater than
App. - approximate Est. - estimated

PREPARED BY:..... Glen White, S.I.S., 817-560-4631

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

Material Safety Data Sheet

The Dow Chemical Company
Midland, Michigan 48674

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-Hour Emergency Phone Number: 517-636-4400

Product: GAS/SPEC (R) CS-PLUS SOLVENT ADDITIVE

Product Code: 29451

Effective Date: 06/30/94 Date Printed: 07/25/95 MSD: 002850

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS#	AMOUNT (%w/w)
Proprietary alkylamine		90 to 100%
Water	CAS# 007732-18-5	Max. 4%

3. HAZARDS IDENTIFICATION

EYE: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

SKIN CONTACT: Short single exposure may cause skin burns. Prolonged exposure may cause severe skin burns. DOT classification: corrosive.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INGESTION: Single dose oral toxicity is low. Amounts ingested incidental to industrial handling are not likely to cause injury; however ingestion of larger amounts may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.

INHALATION: At room temperature, exposures to vapors are unlikely due to physical properties; higher temperatures may generate vapor levels sufficient to cause adverse effects.

SYSTEMIC AND OTHER EFFECTS: Repeated excessive exposures may cause liver and kidney effects. Birth defects are unlikely. Exposures having no adverse effects on the mother should have

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no effect on the fetus.

4. FIRST AID

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical consultation is essential.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Destroy contaminated shoes.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: Corrosive. May cause stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT: 160F, 71C
METHOD USED: PMCC

FLAMMABLE LIMITS
LFL: 1.6%
UFL: 19.6%

AUTOIGNITION TEMPERATURE: 350C; 662F

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, foam. For large-scale fires, alcohol resistant foams are preferred if available. General purpose synthetic foams or protein foams may function, but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain fire run-off water.

FIRE AND EXPLOSION HAZARDS: Keep unnecessary people away; isolate

(Continued on page 3)
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hazard area and deny unnecessary entry. Highly toxic fumes are released in fire situations. Fire water run-off may be toxic. See environmental section of this MSDS. When using water spray, boil-over may occur when the product temperature reaches the boiling point of water (tank-type scenarios, not spills). See also 'STORAGE AND HANDLING' section of this MSDS.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

ACTION TO TAKE FOR SPILLS: Wash with small amounts of water. Dike to avoid contamination of sewer with large amounts, soak up with absorbent material, scoop into drums.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Will produce flammable vapors above the flash point.

STORAGE:
Store in a tightly closed container, away from sunlight, in a cool, dry and well ventilated area. Keep away from strong acids and oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient for most conditions.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes. Remove contaminated clothing

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immediately, wash skin area with soap and water, and launder clothing before reuse.

EYE PROTECTION: Use chemical goggles. Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of spashes. Eye wash fountain should be located in immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	: 306-324F, 152-162C
VAPOR PRESSURE	: <2.5 mmHg @ 20C
VAPOR DENSITY	: 2.6
SOLUBILITY IN WATER	: Complete
SPECIFIC GRAVITY	: 0.93-0.94 @ 20/20C
FREEZING POINT	: -4.5C, 24F
APPEARANCE	: Colorless liquid
ODOR	: Amine

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Stable, avoid heat, sparks, and open flames.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Acids, strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon dioxide, toxic carbon monoxide and oxides of nitrogen. Unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

ACUTE SKIN: The dermal LD50 has not been determined.

ACUTE INGESTION: The oral LD50 for rats is between 1000 and 2340 mg/kg.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

(Continued on page 5)
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No data available at MSDS effective date.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL METHOD: Dispose by incineration in accordance with all local, state, and federal requirements.

14. TRANSPORT INFORMATION

CANADIAN TDG INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard
A fire hazard

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

(Continued on page 6 , over)
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REGULATORY INFORMATION (CONTINUED)

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
Proprietary alkylamine		

HMIRA INFORMATION: A claim for exemption from ingredient disclosure has been filed under the Hazardous Materials Information Review Act (Canada). The Hazardous Materials Information Review Commission registry number, and date, assigned to this claim are:

Claim Registry Number: 3499 Filing Date: June 29, 1994

16. OTHER INFORMATION

PRODUCT USE: Gas conditioning solvent.

REVISION INDICATOR: Revised section 15

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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

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Material Safety Data Sheet

The Dow Chemical Company
Midland, Michigan 48674

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-Hour Emergency Phone Number: 517-636-4400

Product: GAS/SPEC (R) CS-PLUS SOLVENT

Product Code: 13693

Effective Date: 06/30/94 Date Printed: 01/10/95 MSD: 003430

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Methyldiethanolamine	CAS# 000105-59-9	60-70%
Proprietary Alkylamine		
Water	CAS# 007732-18-5	2.0% MAX

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

****
* Causes severe eye and skin burns. Causes severe burns of the mouth *
* and throat. May be harmful if swallowed. May cause respiratory *
* tract irritation. Combustible liquid and vapor. *
****

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: Due to the pH of the material, it is assumed that exposure may cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

SKIN: Short single exposure may cause severe skin burns. Classified as corrosive according to DOT. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The dermal LD50 has not been determined.

INGESTION: Single dose oral toxicity considered to be low. The oral LD50 for rats is >1000 mg/kg. Small amounts swallowed incidental to normal handling are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion

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may cause burns of mouth and throat. Observations in animals include liver and kidney effects.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:
No relevant information found.

TERATOLOGY (BIRTH DEFECTS): Contains component(s) which did not cause birth defects or any other fetal effects in lab animals.

CANCER INFORMATION:
No relevant information found.

REPRODUCTIVE EFFECTS:
No relevant information found.

4. FIRST AID

EYES: Wash eyes immediately and continuously until assistance arrives for transport to medical facility; wash enroute, if possible. If medical assistance is not immediately available, wash for 30 minutes and seek medical attention immediately.

SKIN: Immediate continued and thorough washing in flowing water for 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

INHALATION: Remove to fresh air if effects occur. Consult physician.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. Eye irrigation may be necessary for an extneded period of time to remove as much caustic as possible. Duration of irrigation and treatment is at the discretion of medical personnel. May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

(Continued on page 3)
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FLASH POINT: 192F, 88.9C
METHOD USED: PMCC

FLAMMABLE LIMITS
LFL: Not established
UFL: Not established

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical, foam. For large scale fires, alcohol resistant foams are preferred if available. General purpose synthetic foams or protein foams may function, but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain fire run off water.

FIRE AND EXPLOSION HAZARDS: Keep unnecessary people away; isolate hazard area and deny unnecessary entry. Highly toxic fumes are released in fire situations. Fire water run off may be toxic. See environmental section of this MSDS. When using water spray, boil over may occur when the product temperature reaches the boiling point of water (tank type scenarios, not spills). See also "storage and handing" section of this MSDS.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

ACTION TO TAKE FOR SPILLS: Wash with small amounts of water. Dike to avoid contamination of sewer with large amounts, soak up with absorbent material, scoop into drums. Keep out of sewers, storm drains, surface waters and soil.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Will produce flammable vapors above the flash

(Continued on page 4 , over)
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point.

STORAGE:
Store in a tightly closed container, away from sunlight, in a cool, dry and well ventilated area. Keep away from strong acids and oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINE(S): None established.

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

EYE PROTECTION: Use chemical goggles. Wear a face shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes. Eye wash fountain should be located in immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	:	183C, 361F
VAPOR PRESSURE	:	0.5 mmHg @ 25C
VAPOR DENSITY	:	3.5
SOLUBILITY IN WATER	:	Complete
SPECIFIC GRAVITY	:	1.01 @ 25/25C
FREEZING POINT	:	-23.1C
APPEARANCE	:	Pale straw liquid
ODOR	:	Amine odor

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Stable, avoid heat, sparks, and open flames.

(Continued on page 5)
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INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Acids, strong oxidizers, halogenated hydrocarbons.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon dioxide, toxic carbon monoxide and nitrogen oxides. Unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

MUTAGENICITY
No relevant information found.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

No data available at MSDS effective date.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL METHOD: Do not dump into any sewers, on the ground, or into any body of water. For unused or uncontaminated material, the preferred waste management options are to send to a licensed recycler, reclaimer, or incinerator. The same waste management options are recommended for used or contaminated material, although additional evaluation is required (in the U.S. see for example, 40 CFR, Part 261, "Identification and Listing of Hazardous Waste").

Any disposal practice must be in compliance with federal, state/provincial, and local laws and regulations. State/provincial and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Chemcial additions, processing, storage, or otherwise altering this material may make the waste management information presented in this MSDS incomplete or otherwise inappropriate. As a service to its customers, Dow can provide lists of companies which recycle, reprocess or manage chemicals. In the U.S. telephone Dow's Customer Information Center at 800/258-2436 for further details.

14. TRANSPORT INFORMATION

(Continued on page 6 , over)
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CANADIAN TDG INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A fire hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on

(Continued on page 7)
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REGULATORY INFORMATION (CONTINUED)

certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
PROPRIETARY INGREDIENT	PROPRIETARY	PA1

PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

B3 - combustible liquid with a flash point between 37.8C and 93.3C
E - corrosive to metal or skin
Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

- - - - -

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

- - - - -

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
Methyldiethanolamine	CAS# 000105-59-9	60-70%
Proprietary Alkylamine		

HMIRA INFORMATION: A claim for exemption from ingredient disclosure has been filed under the Hazardous Materials Information Review Act (Canada). The Hazardous Materials Information Review Commission registry number, and date, assigned to this claim are:

(Continued on page 8 , over)
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Product: GAS/SPEC (R) CS-PLUS SOLVENT
Product Code: 13693

Effective Date: 06/30/94 Date Printed: 01/10/95 MSD: 003430

REGULATORY INFORMATION (CONTINUED)

Claim Number: 3500 Filing Date: June 29, 1994

16. OTHER INFORMATION

MSDS STATUS: Revised section 15

PRODUCT USE: Gas conditioning solvent.

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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

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MATERIAL SAFETY DATA SHEET

ETHYLENE GLYCOL

1	HMIS HEALTH
1	HMIS FLAMMABILITY
0	HMIS REACTIVITY
B	HMIS PERSONAL PROTECTION

SECTION I - IDENTIFICATION

DISTRIBUTED BY.....	COASTAL CHEMICAL COMPANY, INC. (318) 893-3862
EMERGENCY PHONE NUMBER...	(318) 893-3862 OR CHEMTREC (800) 424-9300
EFFECTIVE DATE.....	2/06/1996
MANUFACTURER'S NAME.....	UNION CARBIDE DOW CHEMICAL TEXACO OXY-PETROCHEMICAL
TRADE NAME.....	ETHYLENE GLYCOL
CHEMICAL FAMILY.....	GLYCOL
CAS NUMBER.....	107-21-1
CHEMICAL FORMULA.....	HOCH2CH2OH

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
ETHYLENE GLYCOL	100%	ACGIH CEILING 50ppm	107-21-1

SECTION III - PHYSICAL DATA

FREEZING POINT (F).....	9 DEG F
VAPOR PRESSURE (mm Hg)...	0.12 MMHG @ 25 C
VAPOR DENSITY (Air=1)....	2.14
SOLUBILITY IN H20.....	COMPLETELY MISCIBLE
APPEARANCE/ODOR.....	COLORLESS LIQUID; PRACTICALLY ODORLESS
SPECIFIC GRAVITY (H20=1).	1.1155 @ 20/20 C
PH.....	N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT.....	247 DEG F
LOWER FLAME LIMIT.....	N/D
HIGHER FLAME LIMIT.....	N/D
EXTINGUISH MEDIA.....	Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO2).
UNUSUAL FIRE HAZARD.....	NONE KNOWN Approach fire from upwind side. Avoid breathing smoke ,fumes, mist or vapors on the downwind side.

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MATERIAL SAFETY DATA SHEET

ETHYLENE GLYCOL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.... 50 PPM BASED ON ETHYLENE GLYCOL

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	IRRITANT, POSSIBLY NARCOTIC	Not expected to cause significant health hazard	Ingestion of very large amounts could cause serious injury,or even death.

HEALTH HAZARDS..... ACUTE: Vapors may be irritating to eyes, or mucous membranes. Avoid inhalation or eye contact. CHRONIC: Kidney and liver damage possible. May cause reproductive disorders.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATED
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact. Symptoms of overexposure: headache, fatigue, nausea, irritation of respiratory tract, dizziness, staggering gait, confusion, unconsciousness.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable

CONDITIONS TO AVOID..... Heat may cause internal pressure which could rupture container.

INCOMPATIBLE MATERIALS... Oxidizers or Oxidizing Materials. Alkaline Materials.

DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide

ZARDOUS POLYMERIZATION. Will not occur

OLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL.....	In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.
WASTE DISPOSAL METHOD....	Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION...	When ventilation is not adequate, use of NIOSH approved organic vapor/acid gas cartridge respirator is recommended.
VENTILATION.....	Required in closed areas
MECHANICAL EXHAUST.....	Required in closed areas
LOCAL EXHAUST.....	Desired
PROTECTIVE GLOVES.....	Wear impervious gloves
EYE PROTECTION.....	Use chemical goggles or full face shield.
OTHER PROTECTIVE EQUIPMENT.....	Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE.....	Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.
PRECAUTIONARY MEASURES...	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.
HAZARD CLASS.....	Drums - NOT REGULATED Bulk - Class 9
DOT SHIPPING NAME.....	Drum - Ethylene Glycol Bulk - Other regulated substances, liquid, n.o.s. (ethylene glycol)
REPORTABLE QUANTITY (RQ).	5,000 pounds
UN NUMBER.....	None
NA #.....	Drums - None; Bulk - NA3082
PACKAGING SIZE.....	N/A

SECTION X - REGULATORY

EPA ACUTE	YES
EPA CHRONIC	YES
EPA IGNITABILITY	NO
EPA REACTIVITY	NO
EPA SUDDEN RELEASE OF PRESSURE	NO
CERCLA RQ VALUE	5,000 pounds
SARA TPQ	None
SARA RQ	None
SECTION 313	YES, ETHYLENE GLYCOL 107-21-1 100%
EPA HAZARD WASTE #	None
CLEANAIR	Yes, Section 111 and 1990 Amendments
CLEAN WATER	No

FOOT NOTES N/A - not applicable N/D - no data available
< - means less than > - means greater than
App. - approximate Est. - estimated

PREPARED BY: Joe Hudman, Coastal Chemical Co., Inc. 713-477-6675

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMER IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

MATERIAL SAFETY DATA SHEET

COASTALGUARD 100 ANTIFREEZE/COOLANT

1 HMIS HI
1 HMIS FI
0 HMIS RI
B HMIS PI

100%

ic. 713-477-6675

SIST OUR CUSTOMERS
REGULATIONS. THE
AND IS BELIEVED
OR IMPLIED BY THE
IN THE EXCLUSIVE
INE THE
OVERNMENTAL

SECTION I - IDENTIFICATION

DISTRIBUTED BY.....	COASTAL CHEMICAL CO., INC. (318)893-3862
EMERGENCY PHONE NUMBER...	CHEMTREC (800)424-9300
EFFECTIVE DATE.....	2/06/1996
MANUFACTURER'S NAME.....	COASTAL CHEMICAL CO., INC.
TRADE NAME.....	COASTALGUARD 100 ANTIFREEZE/COOLANT
CHEMICAL FAMILY.....	INHIBITED ETHYLENE GLYCOL SOLUTION
CAS NUMBER.....	Blended Product
CHEMICAL FORMULA.....	Blended Product

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)
ETHYLENE GLYCOL	95 %	ACGIH CEILING 50ppm

SECTION III - PHYSICAL DATA

FREEZING POINT (F).....	APPROX. 22 DEG F
VAPOR PRESSURE (mm Hg)...	0.12 MMHG @ 25 C
VAPOR DENSITY (Air=1)....	2.14
SOLUBILITY IN H20.....	COMPLETELY MISCIBLE
APPEARANCE/ODOR.....	YELLOW/GREEN LIQUID; PRACTICALLY ODO
SPECIFIC GRAVITY (H20=1).	1.11 typical
PH.....	10.5 - 11.0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT.....	APPROX. 247 DEG F
LOWER FLAME LIMIT.....	N/D
HIGHER FLAME LIMIT.....	N/D
EXTINGUISH MEDIA.....	Water fog or spray, Foam, Dry Powder (CO2).
UNUSUAL FIRE HAZARD.....	NONE KNOWN Approach fire from upwind breathing smoke ,fumes, mist or vapo downwind side.

SECTION V - HEALTH HAZARD DATA

MATERIAL SAFETY DATA SHEET

COASTALGUARD 100 ANTIFREEZE/COOLANT

THRESHOLD LIMIT VALUE.... 50 PPM BASED ON ETHYLENE GLYCOL

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	IRRITANT, POSSIBLY NARCOTIC	Not expected to cause significant health hazard	Ingestion of very large amounts could cause serious injury,or even death.

HEALTH HAZARDS..... ACUTE: Vapors may be irritating to eyes, or mucous membranes. Avoid inhalation or eye contact. CHRONIC: Kidney and liver damage possible. May cause reproductive disorders.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATED
NO	NO	NO	NO

OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact. Symptoms of overexposure: headache, fatigue, nausea, irritation of respiratory tract, dizziness, staggering gait, confusion, unconsciousness.

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY..... Product is stable
CONDITIONS TO AVOID..... Heat may cause internal pressure which could rupture container.
INCOMPATIBLE MATERIALS... OXIDIZING MATERIALS & OXIDIZERS
DECOMPOSITION PRODUCTS... From fire; Smoke, Carbon dioxide, & Carbon Monoxide
HAZARDOUS POLYMERIZATION. Will not occur
POLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL.....	In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.
WASTE DISPOSAL METHOD....	Industrial Waste. Follow Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION...	When ventilation is not adequate, use of NIOSH approved organic vapor/acid gas cartridge respirator is recommended.
VENTILATION.....	Required in closed areas
MECHANICAL EXHAUST.....	Required in closed areas
LOCAL EXHAUST.....	Desired
PROTECTIVE GLOVES.....	Wear impervious gloves
EYE PROTECTION.....	Use chemical goggles or full face shield.
OTHER PROTECTIVE EQUIPMENT.....	Chemical type apron recommended

SECTION IX - SPECIAL HANDLING

HANDLING AND STORAGE.....	Store away from oxidizers or materials bearing a yellow "DOT" label. Keep out of sun and away from heat. Clean up leaks immediately to prevent soil or water contamination.
PRECAUTIONARY MEASURES...	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Use with adequate ventilation.
HAZARD CLASS.....	Drums - Not Regulated Bulk - Class 9
DOT SHIPPING NAME.....	Drums - COASTALGUARD 100 Bulk - Other regulated substances, liquid, n.o.s. (ethylene glycol)
REPORTABLE QUANTITY (RQ).	5000 pounds
UN NUMBER.....	None
NA #.....	Drums - None; Bulk - NA3082
PACKAGING SIZE.....	N/A

SECTION X - REGULATORY

EPA ACUTE.....	YES
EPA CHRONIC.....	YES
EPA IGNITABILITY.....	NO
EPA REACTIVITY.....	NO

EPA SUDDEN RELEASE OF
PRESSURE..... NO

CERCLA RQ VALUE..... 5000 pound for ethylene glycol

SARA TPQ..... None
SARA RQ..... None
SECTION 313..... YES, ETHYLENE GLYCOL 107-21-1 95% (1/1/87)

EPA HAZARD WASTE #..... None
CLEANAIR..... Yes, Section 111 Volatile Organic Compounds & Section 112 Statutory Air Pollutants (1990 Amendments)
CLEAN WATER..... No

FOOT NOTES N/A - not applicable N/D - no data available
< - means less than > - means greater than
App. - approximate Est. - estimated

PREPARED BY:..... David Trahan, C.F.T. - 318-898-0001

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DOW

Material Safety Data Sheet

The Dow Chemical Company
Midland, Michigan 48674

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-Hour Emergency Phone Number: 517-636-4400

Product: DIETHANOLAMINE LOW FREEZING GRADE

Product Code: 21106

Effective Date: 03/01/96 Date Printed: 04/27/96 MSD: 000904

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Diethanolamine	CAS# 000111-42-2	85%
Water	CAS# 007732-18-5	15%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

****

* Colorless liquid. Slight ammonia odor. Causes eye burns. *

****

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause severe irritation with corneal injury.

SKIN: Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is abraded (scratched or cut). A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Not classified as corrosive according to DOT.

INGESTION: Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Observations in animals include liver and kidney effects following single oral doses. Ingestion may cause gastrointestinal irritation or ulceration.

(Continued on page 2 , over)

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INHALATION: At room temperature, exposures to vapors are minimal due to physical properties; higher temperatures may generate vapor levels sufficient to cause irritation and other effects.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Results from repeated exposure tests on diethanolamine in laboratory animals include anemia (rats) and effects on kidney (rats and mice) and liver (mice). Heart and nervous system effects were also observed in these animals given exaggerated doses. Changes in other organs, causes of which are nonspecific, were judged secondary to the poor health of the animals due to the extremely high doses of diethanolamine given.

TERATOLOGY (BIRTH DEFECTS): Contains component(s) which did not cause birth defects; other fetal effects occurred only at doses toxic to the mother.

4. FIRST AID

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagscopic control. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASH POINT: * None
METHOD USED: Setaflash
AUTOIGNITION TEMPERATURE:

* No flash point observed up to the boiling point. Flash point of

(Continued on page 3)
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diethanolamine is 325F, 163C by Setaflash.

FLAMMABILITY LIMITS
LFL: Not determined.
UFL: Not determined.

HAZARDOUS COMBUSTION PRODUCTS:

EXTINGUISHING MEDIA: Water fog, alcohol foam, CO2, dry chemical.

FIRE FIGHTING INSTRUCTIONS: Not available.

PROTECIVE EQUIPMENT FOR FIRE FIGHTERS: Wear self-contained, possitive-pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Clear non-emergency personnel from the area.

PROTECT THE ENVIRONMENT: Do not allow into sewers, on the ground, or into any body of water.

CLEANUP: Use a noncombustible absorbent such as sand and shovel into suitable containers. Do not use sawdust, wood chips or other cullulosic materials to absorb the spill.

7. HANDLING AND STORAGE

HANDLING: Prevent eye and skin contact. Avoid breathing vapors. Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the auto-ignition temperature possibly resulting in spontaneous combustion.

STORAGE: Do not store in common area with halogenated materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTIVE EQUIPMENT

(Continued on page 4 over)
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EYE/FACE PROTECTION: Use chemical goggles.

SKIN PROTECTION: When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation. If hands are cut or scratched, use gloves impervious to this material even for brief exposures.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

EXPOSURE GUIDELINE(S): Diethanolamine: ACGIH TLV is 2 mg/m3, skin; OSHA PEL is 3 ppm. PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless liquid.
ODOR: Slight ammoniacal odor.
VAPOR PRESSURE: Low.
VAPOR DENSITY: Not determined.
BOILING POINT: 244F, 118C
SOLUBILITY IN WATER: Completely miscible.
SPECIFIC GRAVITY: 1.08 @ 25/4C
FREEZING POINT: 28F, -2C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal storage conditions.

CONDITIONS TO AVOID: This product should not be heated above 60C in the presence of aluminum due to excessive corrosion and potential chemical reaction releasing flammable hydrogen gas.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizers, strong acids. Product may potentially react with various halogenated organic solvents, resulting in temperature and/or pressure increases.

HAZARDOUS DECOMPOSITION PRODUCTS: Possible nitrogen oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

(Continued on page 5)
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SKIN: The LD50 for skin absorption in rabbits is greater than 8,200 mg/kg (for diethanolamine).

INGESTION: The oral LD50 for rats is greater than 680 mg/kg (for diethanolamine).

MUTAGENICITY: In vitro mutagenicity studies were negative. (for diethanolamine).

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: Based largely or completely on data for major component(s). Bioconcentration potential is low (BCF less than 100 or Log Kow less than 3). Log octanol/water patition coefficient (log Kow) is -1.43. Henry's Law Constant (H) is 5.35E-14 atm m3/mol.

DEGRADATION & TRANSFORMATION: Based largely or completely on data for major component(s). Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD greater than 40%). 5-Day biochemical oxygen demand (BOD5) is 0.22 p/p. 10-Day biochemical oxygen demand (BOD10) is 0.74 p/p. 20-Day biochemical oxygen demand (BOD20) is 1.20 p/p. Theoretical oxygen demand (ThOD) is calculated to be 2.13 p/p. Inhibitory concentration (IC50) in OECD "Activated Sludge, Respiration Inhibition Test" (Guideline #209) is > 1000 mg/L. Material is ultimately biodegradable. Reaches more than 70% mineralization in OECD test for inherent biodegradability: Zahn-Wellens; 94% DOC removal in 14 days.

ECOTOXICOLOGY: Based largely or completely on data for major component(s). Material is slightly toxic to aquatic organisms on an acute basis (LC50 between 10 and 100 mg/L in most sensitive species). Acute LC50 for fathead minnow (Pimephales promelas) is 1460-1664 mg/L. Acute LC50 for bluegill (Lepomis macrochirus) is 1850-2100 mg/L. Acute LC50 for water flea (Daphnia magna) is 55-306 mg/L. Acute LC50 for the cladoceran Ceriodaphnia dubia is 30-160 mg/L. Acute LC50 for goldfish (Carassius auratus) is 800 to > 5000 mg/L at pH 9.7 and pH 7.0, respectively. Acute LC50 for mosquito fish (Gambusia affinis) is 1400-1800 mg/L.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

(Continued on page 6 , over)
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DISPOSAL: Any disposal practice must be in compliance with all federal, state/provincial, and local laws and regulations. State/provincial and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Regulations may also vary in different locations. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. None of these waste management options should be considered 'arranging for disposal'.

Do not allow into any sewers, on the ground, or into any body of water.

The preferred waste management option is to send to a properly properly licensed or permitted incinerator.

As a service to its customers, Dow can provide lists of companies which recycle, reprocess, or manage chemicals. In the U.S., telephone Dow's Customer Information Center at 517-832-1556 or 800-258-2436 (U.S.) for further details.

14. TRANSPORT INFORMATION

CANADIAN TDG INFORMATION:
For TDG regulatory information, if required, consult transportation regulations, product shipping papers, or your Dow representative.

DEPARTMENT OF TRANSPORTATION (D.O.T.):

For DOT regulatory information, if required, consult transportation regulations, product shipping papers or contact your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply

(Continued on page 7)
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with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: This product contains the following substances 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:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
DIETHANOLAMINE	000111-42-2	86 %

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
DIETHANOLAMINE	000111-42-2	NJ3 PA1 PA3

NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).
PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).
PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

(Continued on page 8 , over)
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Product: DIETHANOLAMINE LOW FREEZING GRADE
Product Code: 21196

Effective Date: 03/01/96 Date Printed: 04/27/96 MSD: 000904

REGULATORY INFORMATION (CONTINUED)

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:
Category:

Chemical Name	CAS#	RQ	% in Product
Diethanolamine	000111-42-2	100 lb	85%

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

D2B - eye or skin irritant
Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

- - - - -

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

- - - - -

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
Diethanolamine	CAS# 000111-42-2	85%

16. OTHER INFORMATION

REVISION INDICATOR: Revised section 14.

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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

ROSEVelt Anderson

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
JUL 24 1998
OIL CON. DIV.
DIST. 3

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BIG A WELL SERVICE
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site OLD YARD SUMP
2. Management Facility Destination	6. Transporter SUNCO
3. Address of Facility Operator	8. State NM
7. Location of Material (Street Address or ULSTR) BIG A YARD (OLD) 708 S. TUCKER, FARMINGTON	

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:

WASH WATER FROM YARD SUMP USED TO CLEAN OIL FIELD EQUIPMENT, THIS WILL CLOSE THIS WASH SUMP FOR BIG A WELL SERVICE.

RECEIVED
JUL 21 1998
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Estimated Volume 40 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: mgr DATE: 7-20-98
Waste Management Facility/Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/20/98

APPROVED BY: [signature] TITLE: Water Resource Engineer DATE: 7/23/98

Roger Anderson

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
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(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BIG A WELL SERVICE
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site old YARD SUMP
2. Management Facility Destination	6. Transporter SUNCO
3. Address of Facility Operator	8. State NM
7. Location of Material (Street Address or ULSTR) BIG A YARD (old) 708 S. TUCKER, FARMINGTON	

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:

WASH WATER FROM YARD SUMP USED TO CLEAN OIL FIELD EQUIPMENT. This will close this WASH SUMP FOR BIG A well service.

Estimated Volume 40 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: mgr DATE: 7-20-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/20/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BIG A WELLSERVICE	SUNCO DISPOSAL
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
BIG A WASH SUMP	708 S. Tucker FARMINGTON, NM
Attach list of originating sites as appropriate	

4. Source and Description of Waste

WASH WATER FROM YARD SUMP USED TO CLEAN OILFIELD EQUIPMENT. THIS WILL CLOSE THIS WASH BAY FOR BIG A WELLSERVICE

I, HAL STONE (Print Name) representative for:

KEY FOUR CORNERS, INC – DBA SUNCO TRUCKING 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 waste

X **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste only the following documentation is attached (check appropriate items):

___ MSDS Information
X RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Hal Stone

Title: GENERAL MANAGER – TRUCKING DIVISION

Date: 7-20-98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Sunco Trucking	Project #:	98065-01
Sample ID:	B 16 A Sump	Date Reported:	07-14-98
Lab ID#:	D605	Date Sampled:	07-13-98
Sample Matrix:	Sludge	Date Received:	07-13-98
Preservative:	Cool	Date Analyzed:	07-13-98
Condition:	Cool & Intact	Chain of Custody:	6159

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 7.34**
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: **B 16 A Sump.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Sunco Trucking	Project #:	98065-01
Sample ID:	B 16 A Sump	Date Reported:	07-14-98
Laboratory Number:	D605	Date Sampled:	07-13-98
Chain of Custody:	6159	Date Received:	07-13-98
Sample Matrix:	Sludge	Date Extracted:	07-13-98
Preservative:	Cool	Date Analyzed:	07-14-98
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	**0.0198**	**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
	Trifluorotoluene	**98%**
	Bromofluorobenzene	**99%**

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: **B 16 A Sump.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Sunco Trucking	Project #:	98065-01
Sample ID:	B 16 A Sump	Date Reported:	07-16-98
Laboratory Number:	D605	Date Sampled:	07-13-98
Chain of Custody:	6159	Date Received:	07-13-98
Sample Matrix:	Sludge	Date Extracted:	07-13-98
Preservative:	Cool	Date Analyzed:	07-15-98
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	**0.056**	**0.040**	**200**
2,4,6-Trichlorophenol	**0.072**	**0.020**	**2.0**
2,4,5-Trichlorophenol	**0.140**	**0.020**	**400**
Pentachlorophenol	**0.451**	**0.020**	**100**

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	**98%**
	2,4,6-Tribromophenol	**100%**

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. 19

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

Comments: **B 16 A Sump.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Sunco Trucking	Project #:	98065-01
Sample ID:	B 16 A Sump	Date Reported:	07-16-98
Laboratory Number:	D605	Date Sampled:	07-13-98
Chain of Custody:	6159	Date Received:	07-13-98
Sample Matrix:	Sludge	Date Extracted:	07-13-98
Preservative:	Cool	Date Analyzed:	07-15-98
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	**100%**

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: **B 16 A Sump.**

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Sunco Trucking	Project #:	98065-01
Sample ID:	B 16 A Sump	Date Reported:	07-15-98
Laboratory Number:	D605	Date Sampled:	07-13-98
Chain of Custody:	6159	Date Received:	07-13-98
Sample Matrix:	Sludge	Date Analyzed:	07-15-98
Preservative:	Cool	Date Extracted:	07-13-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.0001**	**5.00**
Barium	**0.316**	**0.001**	**100**
Cadmium	**0.0038**	**0.0001**	**1.00**
Chromium	**0.0195**	**0.0001**	**5.00**
Lead	**0.0016**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**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 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

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

Comments: **B 16 A Sump.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-14-98
Laboratory Number:	07-14-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-14-98
Condition:	N/A	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
	Trifluorotoluene	100%
	Bromofluorobenzene	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 D605.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-14-98
Laboratory Number:	07-13-TCV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-14-98
Condition:	N/A	Date Extracted:	07-13-98
		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
	Trifluorotoluene	**99%**
	Bromofluorobenzene	**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 D605.**

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-14-98
Laboratory Number:	D605	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-14-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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	**0.0198**	**0.0201**	**0.0001**	**1.3%**
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 D605.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	07-14-98
Laboratory Number:	D605	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-14-98
Condition:	N/A	Date Extracted:	N/A

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%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	0.0198	0.050	0.0696	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0489	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0485	0.0002	97%	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 D605.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS
Quality Assurance Report
Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-16-98
Laboratory Number:	07-15-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-15-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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. 19

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

Comments: **QA/QC for sample D605.**

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-16-98
Laboratory Number:	07-13-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-13-98
Condition:	Cool & Intact	Date Analyzed:	07-15-98
		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. 19

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

Comments: **QA/QC for sample D605.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-16-98
Laboratory Number:	D605	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	07-15-98
		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	**0.056**	**0.056**	**0.040**	**0.0%**
2,4,6-Trichlorophenol	**0.072**	**0.074**	**0.020**	**2.5%**
2,4,5-Trichlorophenol	**0.140**	**0.141**	**0.020**	**0.7%**
Pentachlorophenol	**0.451**	**0.453**	**0.020**	**0.5%**

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. 198

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

Comments: **QA/QC for sample D605.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	07-16-98
Laboratory Number:	07-15-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-15-98
		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	**100%**

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 D605.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	07-16-98
Laboratory Number:	07-13-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-13-98
Condition:	Cool and Intact	Date Analyzed:	07-15-98
		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	**100%**

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 D605.**

Analyst

Review Stacy W Sendler

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	07-16-98
Laboratory Number:	D605	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-15-98
		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	**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 D605.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	07-15-TCM QA/QC	Date Reported:	07-15-98
Laboratory Number:	D605	Date Sampled:	N/A
Sample Matrix:	Sludge	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	07-15-98
Condition:	N/A	Date Extracted:	07-13-98

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	0.316	0.316	0.0%	0% - 30%
Cadmium	ND	ND	0.0001	0.0038	0.0040	5.3%	0% - 30%
Chromium	ND	ND	0.0001	0.0195	0.0192	1.5%	0% - 30%
Lead	ND	ND	0.0001	0.0016	0.0016	0.0%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.1000	ND	0.0994	99%	80% - 120%
Barium	1.000	0.316	1.32	100%	80% - 120%
Cadmium	0.0500	0.0038	0.0537	100%	80% - 120%
Chromium	0.0500	0.0195	0.0690	99%	80% - 120%
Lead	0.1000	0.0016	0.1015	100%	80% - 120%
Mercury	0.0250	ND	0.0249	100%	80% - 120%
Selenium	0.1000	ND	0.0997	100%	80% - 120%
Silver	0.0500	ND	0.0499	100%	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 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: **QA/QC for sample D605.**

Analyst

Review

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CHAIN OF C JS' 'O)Y RECORD

6159

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Sunco Trucking/BIGA SUMP	BIGA SUMP	
Sampler: MICHAEL TALOVICH	Client No. 98065-01	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP 8260 1,4-DCB						Remarks
BIGA SUMP	7-13-98	900	D605	Sludge	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Michael Talovich	7-13-98	930	Dawn L. Applewhite	7-13-98	0830
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

334-6186

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	X		
Cool - Ice/Blue Ice	X		

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator SUNCO TRUCKING
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site KAIME #1-12
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) SW NW SEC. 12-T24N R8W, La Plata Co.	

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.

RECEIVED

BRIEF DESCRIPTION OF MATERIAL:

UNUSED KCL fluid 2% KCL and Freshwater

JUL 10 1998
Environmental Bureau
Oil Conservation Division

RECEIVED
JUL 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 1200 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Tolovich TITLE: mgr DATE: 7-8-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME Michael Tolovich TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/8/98

APPROVED BY: Roger Anderson TITLE: Bureau Chief DATE: 7/10/98

District I - (505) 393-6161
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Originated 8/8/95

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator SUNCO TRUCKING
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site KAIME #1-12
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator CR3500 #345 AZTEC, NM	8. State NM
7. Location of Material (Street Address or ULSTR) SW NW SEC. 12-T34N R8W, LaPlata Co. Co.	

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.

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BRIEF DESCRIPTION OF MATERIAL:

UNUSED KCL fluid 2% KCL AND Freshwater

RECEIVED
JUL 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 1200 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Talovich TITLE: MGR DATE: 7-8-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/8/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
SUNCO TRUCKING 5651 HIWAY 64, FARMINGTON	SUNCO DISPOSAL
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
J.M. Huber location KAIME #1-12 Attach list of originating sites as appropriate	SWNW Sec. 12-T34N-R8W LA PLATA CO., COLORADO
4. Source and Description of Waste	
UNUSED KCL Fluid 2% KCl AND Fresh water	

I, HAL STONE representative for:
(Print Name)

KEY FOUR CORNERS, INC. - DBA SUNCO TRUCKING 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 waste

X **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste only the following documentation is attached (check appropriate items):

X MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Hal Stone

Title: General Manager - Trucking Division

Date: 7-8-98

STATE OF COLORADO
OIL & GAS
CONSERVATION COMMISSION

DEPARTMENT OF NATURAL RESOURCES
Roy Romer, Governor
1120 Lincoln St., Suite 801
Denver, CO 80203
Phone: (303) 894-2100
FAX: (303) 894-2109
Website: www.dnr.state.co.us/oil-gas

July 6, 1998

Mr. Mike Talovich
Sunco Disposal
CR 3500 #345
Aztec, NM 87410

Dear Mr. Talovich:

Re: State Notification of Transportation of Oil Field Waste, 1200 bbls of 20% KCL Water from the J.M. Huber, Kaime #1-12, SWNW Sec.12-T34N-R8W, La Plata Co., Colorado to Sunco Disposal Well, CR 3500 #345, Aztec, NM 87410.

Thank you for notifying the Colorado Oil and Gas Conservation Commission (COGCC) of the transportation of waste from the above referenced site to an NMOCD approved disposal well in New Mexico. It is our understanding that approximately 1200 bbls of KCL water will be transported to the Sunco Class One Disposal Well in Aztec, New Mexico.

Certification may be required by the State of New Mexico Oil Conservation Commission (NMOD) from your company, the transporter or the generator. Transportation of this waste may be subject to other state and Federal laws.

Sincerely,

Mr. Loren Avis
Environmental Protection Specialist
COGCC

Cc: Denney Foust, NMOCD

DEPARTMENT OF NATURAL RESOURCES: James S. Lochhead, Executive Director
COGCC COMMISSION: Caroline Blackwell • Allen Harris • Bruce Johnson • Mike Matheson • Claudia Rebne • Molly Sommerville • Stephen Sonnenberg
COGCC STAFF: Richard T. Gdebling, Director • Brian J. Macke, Deputy Director • Morris Bell, Manager of Engineering
Patricia C. Beaver, Manager, Environmental & Commission Affairs • Theresa J. Kerr, Manager of Information Systems

MATERIAL SAFETY DATA SHEET

POTASH
CAUTION: MAY CAUSE SKIN AND EYE IRRITATION

MOAB SALT, Inc.
P.O. Box 1208
Moab, Utah (801) 259-771

TEXASGULF Inc.
3101 Glenwood Avenue
P.O. Box 30321
Raleigh, N.C. 27622-0321 (919) 881-2700

TRANSPORTATION EMERGENCIES: CALL (800) 424-9300 (CHEMTREC)
HEALTH EMERGENICES: CONTACT YOUR LOCAL POISON CENTER

PRODUCT INFORMATION

CHEMICAL NAME AND SYNONYMS
POTASSIUM CHLORIDE

TRADE NAME AND SYNONYMS
POTASH, POTASSIUM MURIATE, MURIATE OF POTASH

CHEMICAL FAMILY
INORGANIC SALT

FORMULA
KC1

CAS NUMBER
7447-40-7

Listed in: _____OSHA SUBPART Z _____ACGIH TLV LISTS; _____NTP LIST;
_____IARC MONOGRAPH; _____X_____NONE OF THE ABOVE

TYPICAL COMPOSITION	%
POTASSIUM CHLORIDE	96.8
SODIUM CHLORIDE	2.8 (CAS #7647-14-5)

PHYSICAL DATA

BOILING POINT (°F)	Sublines @ 2732	MELTING POINT (°F)	1423
VAPOR PRESSURE (mm Hg.)	N/A	SPECIFIC GRAVITY (H20-1)	1.98
VAPOR DENSITY (AIR-1)	N/A	PERCENT VOLATILE	N/A
SOLUBILITY IN WATER	25% @ 68°F	EVAPORATION RATE	N/A
APPEARANCE AND ODOR	White crystals or granules, odorless	OTHER	
pH	7 at 1%		

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (METHOD USED)	NOT COMBUSTIBLE	FLAMMABLE LIMITS	LEL N/A
EXTINGUISHING MEDIA	N/A		UEL N/A
SPECIAL FIRE FIGHTING PROCEDURES	NONE		
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE		

HEATLH INFORMATION

THRESHOLD LIMIT VALUE: NONE ESTABLISHED. OHSA total nuisance dust limit of 15 mg/m³ and a respirable faction of 5 mg/m³. The ACGIH nuisance dust TLV of 10 mg/m³ for the 8 hour time weighted average applies.

(N/A - Not Applicable)

EFFECTS OF OVEREXPOSURE EYE-Irritant, SKIN-Slightly irritating. INHALATION ...ates trachea and upper breathing passages. INGESTION-Large doses and cause G.I. irritation, purging, weakness and circulatory disturbances. Low toxicity. (Toxicity LDSO Rat=3020 mg/kg).

EMERGENCY AND FIRST AID PROCEDURES

EYE-Flush thoroughly with water. Seek medical attention if irritation persists.
SKIN-Wash thoroughly with soap and water.
INHALATION-Remove to fresh air. If discomfort continues, seek medical attention.
INGESTION-If person is conscious, give large amounts of water to drink and induce vomiting. Seek medical attention.

REACTIVITY DATA

STABILITY	[ ]	UNSTABLE	CONDITIONS TO AVOID	NONE
	[X]	STABLE		

INCOMPATABILITY (Materials to Avoid) Strong acids-can cause release of toxic chloride gasses.
HAZARDOUS DECOMPOSITION PRODUCTS None

HAZARDOUS POLYMERIZATION	[ ]	May Occur	CONDITIONS TO AVOID	NONE
	[X]	Will Not Occur		

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Prevent large quantities from contact with water ways or vegetation.

WASTE DISPOSAL METHOD If uncontaminated, recover and reuse product. Consult State or Federal environmental regulatory agencies for acceptable disposal procedures and location.

PERSONAL PROTECTION INFORMATION

EYE-Tight fitting goggles should be worn in dusty areas.
SKIN-If irritation occurs, long sleeves and impervious gloves should be worn.
RESPIRATORY-A NIOSH-approved dust respirator should be used when exposure exceeds the OSHA standard of 15 mg/m³.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING NONE

OTHER PRECAUTIONS Potash is mildly corrosive to steel when wet

Although the information contained herein is offered in good faith, SUCH INFORMATION IS EXPRESSLY GIVEN WITHOUT ANY WARRANTY (EXPRESS O IMPLIED) OR ANY GUARANTEE OF ITS ACURACY OR SUFFICIENCY and is taken at the user's sole risk. User is solely responsible for determining the suitabili of use in each particular situation. Moab Salt specifically DISCLAIMS ANY LIABILITY WHATSOEVER FOR THE USE OF SUCH INFORMATION, including witho limitation any recommendations which user may construe and attempt to apply which may infringe or violate valid patents, licenses and/or copyright.

STATE OF COLORADO
OIL & GAS
CONSERVATION COMMISSION

DEPARTMENT OF NATURAL RESOURCES
Roy Romer, Governor
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Denver, CO 80203
Phone: (303) 894-2100
FAX: (303) 894-2109
Website: www.dnr.state.co.us/oil-gas

July 6, 1998

Mr. Mike Talovich
Sunco Disposal
CR 3500 #345
Aztec, NM 87410

Dear Mr. Talovich:

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Certification may be required by the State of New Mexico Oil Conservation Commission (NMOD) from your company, the transporter or the generator. Transportation of this waste may be subject to other state and Federal laws.

Sincerely,

Mr. Loren Avis
Environmental Protection Specialist
COGCC

Cc: Denney Foust, NMOCD

RECEIVED
JUL 13 1998
OIL CON. DIV.
DIST. 3

DEPARTMENT OF NATURAL RESOURCES: James S. Lochhead, Executive Director
COGCC COMMISSION: Caroline Blackwell • Allan Heinle • Bruce Johnson • Mike Matheson • Claudia Rebne • Molly Sommerville • Stephen Sonnenberg
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New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division

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

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator SUNCO TRUCKING
	5. Originating Site PIPE YARD
2. Management Facility Destination SUNCO WASTE MANAGEMENT FACILITY	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500, AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) 3801 BOULDER RIVER ROAD, FARMINGTON	

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: WASH water FROM CLEANING FRAC TANKS

Continuance of JOB STARTED May 98

Lease EXPIRED, this will close the FACILITY.

SUNCO TRUCKING

RECEIVED
JUL 6 1998
OIL CON. DIV.
DIST. 3

Sent via fax 7-6-98

Estimated Volume 400 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael T Arnold TITLE: Manager DATE: 7-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL T ARNOLD TELEPHONE NO. 505 334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/6/98

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 7-7-98

District I - (505) 393-6161
P. O. Box 1980
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Originated 8/8/95

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator SUNCO TRUCKING
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site PIPE YARD
2. Management Facility Destination SUNCO WASTE MANAGEMENT FACILITY	6. Transporter SUNCO
3. Address of Facility Operator #345 CR3500, AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) 3801 SOUTHSIDE RIVER ROAD, FARMINGTON	

9. Circle One:

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BRIEF DESCRIPTION OF MATERIAL: WASH WATER FROM CLEANING FRAC TANKS CONTINUANCE OF JOB STARTED MAY 98

SUNCO TRUCKING

LEASE EXPIRED, THIS WILL CLOSE THE FACILITY.

RECEIVED
JUL 6 1998
OIL CON. DIV.
DIST. 3

Sent to Aztec 7-6-98

Estimated Volume 400 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael Tavoletti TITLE: Manager DATE: 7-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TAVOLETTI TELEPHONE NO. 505 334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/6/98

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 7-7-98

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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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Verbal Approval Received: Yes ☐ No ☒	5. Originating Site PIPEYARD
2. Management Facility Destination SUNCO WASTE MANAGEMENT FACILITY	6. Transporter SUNCO
3. Address of Facility Operator #345 CR3500, AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) 3801 SOUTHSIDE RIVER ROAD, FARMINGTON	

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BRIEF DESCRIPTION OF MATERIAL: WASH WATER FROM CLEANING FRAC TANKS

CONTINUANCE OF JOB STARTED MAY 98 SUNCO TRUCKING

LEASE EXPIRED, THIS WILL CLOSE THE FACILITY.

RECEIVED
JUL 6 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 400 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Michael J. Talovich TITLE: manager DATE: 7-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/6/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
SUNCO TRUCKING 5651 U.S. 64, FARMINGTON	SUNCO DISPOSAL
3. Originating Site (name): SUNCO TRUCKING PIPEYARD Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** 3801 SOUTHSIDE RIVER ROAD FARMINGTON
4. Source and Description of Waste WASH WATER FROM CLEANING OF FRAC TANKS THERE HAS BEEN NO CHANGES TO WASTE STREAM SINCE 4-27-98	

I, HAL STONE (Print Name) representative for:

KEY FOUR CORNERS, INC. DBA SUNCO TRUCKING 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 waste

X **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste only the following documentation is attached (check appropriate items):

___ MSDS Information
X RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Hal Stone

Title: GENERAL MANAGER - TRUCKING DIVISION

Date: 7-6-98

Inter-Mountain Laboratories,

2506 W. Main Street
Farmington, New Mexico 87401

Michael Talovich
Sunco Trucking
708 S. Tucker
Farmington, NM 87401

April 3, 1998

Mr. Talovich:

Enclosed, please find the reports for the samples received by our laboratory for analysis on March 20, 1998.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

We appreciate your business!

Sincerely,

Sharon Williams
Organics Lab Supervisor

Enclosures
xc: File

Inter-Mountain Laboratories, I

2506 W. Main Street
Farmington, New Mexico 87401

CASE NARRATIVE

Date: April 3, 1998

Client: Sunco Trucking

Project: Pipe Yard Sample No. 0398G01388-1389 # Samples: 2

Dear Client:

The sample or samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Due to the nature of the sample matrix for the sludge sample, we were unable to obtain the recommended acceptable Cation/Anion Balance of 5%.

Analytical results were obtained by approved methods. Practical quantitation limits (PQL) were determined for each parameter for various matrices, and standard preparation dilutions. Quantitative results are reported on an "as received" basis for non-aqueous matrices.

If you have any question, please call me at our toll free number 1 (800) 828-1409.

John Green
Water Lab Supervisor
IML-Farmington, NM

Inter-Mountain Laboratories, I

2506 W. Main Street
Farmington, New Mexico 87401

SUNCO TRUCKING

Case Narrative

On March 20, 1998, samples were submitted to Inter-Mountain Laboratories - Farmington for analysis. The samples were identified by project "Pipe Yard", and were analyzed for the parameters indicated on the accompanying Chain of Custody document #51988.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analyses of the samples reported herein are found in Test Methods For Evaluation of Solid Waste, SW-846, USEPA, 1986, and Methods For Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1983.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely,

Sharon Williams
Organics Lab Supervisor

Inter-Mountain Laboratories, I

2506 W. Main Street
Farmington, New Mexico 87401

Client: Sunco Trucking
Project: Pipe Yard
Sample ID: Pipe Yard
Lab ID: 0398G01388
Matrix: Water
Condition: Intact

Date Received: 03/20/98
Date Reported: 04/03/98
Date Sampled: 03/20/98
Time Sampled: 1500

Parameter	Analytical Result	Units		Units	PQL	Method	Analysis Date	Time	Init.
General Parameters									
PH	7.2	s.u.			0.1	EPA 150.1	03/20/98	1600	BJ
Electrical Conductivity	720	µmhos/cm			10	EPA 120.1	03/20/98	1600	AP
Solids - Total Dissolved	430	mg/L			10	EPA 160.1	03/26/98	1340	BJ
Solids - Total Dissolved (Calc)	410	mg/L			10	Calculation	04/03/98	1425	JG
Solids-Total	540	mg/L			10	EPA 160.3	03/27/98	0910	BJ
Alkalinity (CaCO3)	101	mg/L			1	EPA 310.1	03/24/98	0930	AP
Hardness (CaCO3)	213	mg/L			1	Calculation	04/03/98	1425	JG
Major Anions									
Bicarbonate (HCO3)	123	mg/L	2.02	meq/L	1	EPA 310.1	03/24/98	0930	AP
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Chloride	83	mg/L	2.33	meq/L	1	EPA 300.0	03/26/98	0800	AP
Nitrogen - Nitrate/Nitrite	0.14	mg/L			0.05	EPA 353.2	03/24/98	1430	SH
Sulfate	116	mg/L	2.42	meq/L	5	EPA 300.0	03/26/98	0800	AP
Major Cations									
Calcium	68.5	mg/L	3.42	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Magnesium	10.1	mg/L	0.83	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Potassium	21.9	mg/L	0.56	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Sodium	53.5	mg/L	2.33	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Cation / Anion Balance QC Information									
Anion Sum			6.77	meq/L	0.01	Calculation			
Cation Sum			7.14	meq/L	0.01	Calculation			
Cation/Anion Balance			2.66	%	N/A	Calculation			

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.
EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/100 August, 1983.

Reviewed By: _____
John Green, Water Lab Supervisor

Inter-Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8010
PURGEABLE HALOCARBON COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Pipe Yard
Project ID: Pipe Yard
Lab ID: B981209
Matrix: Water

Date Reported: 04/02/98
Date Sampled: 03/20/98
Date Received: 03/24/98
Date Extracted: NA
Date Analyzed: 03/31/98

Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1-Chlorohexane	ND	5.0	ug/L
2-Chloroethylvinyl ether	ND	5.0	ug/L
Benzyl chloride	ND	5.0	ug/L
bis(2-Chloroethoxy)methane	ND	5.0	ug/L
bis(2-Chloroisopropyl)ether	ND	5.0	ug/L
Bromobenzene	ND	5.0	ug/L
Bromodichloromethane	5.3	5.0	ug/L
Bromoform	8.4	5.0	ug/L
Bromomethane	ND	5.0	ug/L
Carbon Tetrachloride	ND	5.0	ug/L
Chloroacetaldehyde	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
Chloromethylmethyl ether	ND	5.0	ug/L
Chlorotoluene	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
Dibromomethane	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
Tetrachloroethene (PCE)	ND	5.0	ug/L

Reference: Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

Analyst _____ **Reviewed** _____

Inter-Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8010
PURGEABLE HALOCARBON COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Pipe Yard
Project ID: Pipe Yard
Lab ID: B981209
Matrix: Water

Date Reported: 04/02/98
Date Sampled: 03/20/98
Date Received: 03/24/98
Date Extracted: NA
Date Analyzed: 03/31/98

trans-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene (TCE)	ND	5.0	ug/L
Trichlorofluoromethane	ND	5.0	ug/L
Trichloropropane	ND	5.0	ug/L
Vinyl Chloride	ND	5.0	ug/L

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

Analyst _____ **Reviewed** _____

Inter·Mountain Laboratories,

2506 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	**Sunco Trucking**		
Project:	Pipeyard	Date Reported:	03/30/98
Sample ID:	Pipeyard	Date Sampled:	03/20/98
Laboratory ID:	0398G01388	Date Received:	03/20/98
Sample Matrix:	Water	Date Analyzed:	03/28/98

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	<0.005	0.005	5	mg/L
Barium	0.24	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	<0.01	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By: _____ Reviewed: _____

Inter·Mountain Laboratories, I

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS

Client:	Sunco Trucking		
Project ID:	Pipe Yard	Report Date:	03/31/98
Sample ID:	Pipe Yard	Date Sampled:	03/20/98
Lab ID:	0398G01388	Date Received:	03/20/98
Sample Matrix:	Water	Date Extracted:	NA
Condition:	Cool/Intact	Date Analyzed:	03/30/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	55	1.0
Toluene	422	1.0
Chlorobenzene	ND	1.0
Ethylbenzene	163	1.0
m,p-Xylenes	665	1.0
o-Xylene	199	1.0
1,3-Dichlorobenzene	4.87	1.0
1,4-Dichlorobenzene	22	1.0
1,2-Dichlorobenzene	15.8	1.0

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	106.0%	70 -130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst

Review

Inter-Mountain Laboratories, I

2506 W. Main Street
Farmington, New Mexico 87401

Client: Sunco Trucking
Project: Pipe Yard
Sample ID: Pipe Yard
Lab ID: 0398G01389
Matrix: Sludge
Condition: Intact

Date Received: 03/20/98
Date Reported: 04/03/98
Date Sampled: 03/20/98
Time Sampled: 1500

Parameter	Analytical Result	Units		Units	PQL	Method	Analysis Date	Time	Init.
General Parameters									
PH	7.6	s.u.			0.1	EPA 150.1	03/20/98	1600	BJ
Electrical Conductivity	3,030	µmhos/cm			10	EPA 120.1	03/20/98	1600	AP
Solids - Total Dissolved	2,240	mg/L			10	EPA 160.1	03/26/98	1340	BJ
Solids - Total Dissolved (Calc)	1,540	mg/L			10	Calculation	04/03/98	1425	JG
Solids-Total	4,480	mg/L			10	EPA 160.3	03/27/98	0910	BJ
Alkalinity (CaCO3)	449	mg/L			1	EPA 310.1	03/24/98	0930	AP
Hardness (CaCO3)	399	mg/L			1	Calculation	04/03/98	1425	JG
Major Anions									
Bicarbonate (HCO3)	547	mg/L	8.97	meq/L	1	EPA 310.1	03/24/98	0930	AP
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Chloride	140	mg/L	3.95	meq/L	1	EPA 300.0	03/26/98	0800	AP
Nitrogen - Nitrate/Nitrite	0.14	mg/L			0.05	EPA 353.2	03/24/98	1430	SH
Sulfate	414	mg/L	8.63	meq/L	5	EPA 300.0	03/26/98	0800	AP
Major Cations									
Calcium	134	mg/L	6.69	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Magnesium	15.6	mg/L	1.28	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Potassium	260	mg/L	6.65	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Sodium	309	mg/L	13.4	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Cation / Anion Balance QC Information									
Anion Sum			21.5	meq/L	0.01	Calculation			
Cation Sum			28.1	meq/L	0.01	Calculation			
Cation/Anion Balance			13.2	%	N/A	Calculation			

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.
EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/100 August, 1983.

Reviewed By: _____
John Green, Water Lab Supervisor

Inter-Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8010
PURGEABLE HALOCARBON COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Pipe Yard
Project ID: Pipe Yard
Lab ID: B981210
Matrix: Sludge

Date Reported: 04/02/98
Date Sampled: 03/20/98
Date Received: 03/24/98
Date Extracted: 04/01/98
Date Analyzed: 04/01/98

Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	1.5	mg/kg
1,1,1-Trichloroethane	ND	1.5	mg/kg
1,1,2,2-Tetrachloroethane	ND	1.5	mg/kg
1,1,2-Trichloroethane	ND	1.5	mg/kg
1,1-Dichloroethane	ND	1.5	mg/kg
1,1-Dichloroethene	ND	1.5	mg/kg
1,2-Dichlorobenzene	ND	1.5	mg/kg
1,2-Dichloroethane	ND	1.5	mg/kg
1,2-Dichloropropane	ND	1.5	mg/kg
1,3-Dichlorobenzene	ND	1.5	mg/kg
1,4-Dichlorobenzene	ND	1.5	mg/kg
1-Chlorohexane	ND	1.5	mg/kg
2-Chloroethylvinyl ether	ND	1.5	mg/kg
Benzyl chloride	ND	1.5	mg/kg
bis(2-Chloroethoxy)methane	ND	1.5	mg/kg
bis(2-Chloroisopropyl)ether	ND	1.5	mg/kg
Bromobenzene	ND	1.5	mg/kg
Bromodichloromethane	ND	1.5	mg/kg
Bromoform	ND	1.5	mg/kg
Bromomethane	ND	1.5	mg/kg
Carbon Tetrachloride	ND	1.5	mg/kg
Chloroacetaldehyde	ND	1.5	mg/kg
Chlorobenzene	ND	1.5	mg/kg
Chloroethane	ND	1.5	mg/kg
Chloroform	ND	1.5	mg/kg
Chloromethane	ND	1.5	mg/kg
Chloromethylmethyl ether	ND	1.5	mg/kg
Chlorotoluene	ND	1.5	mg/kg
cis-1,3-Dichloropropene	ND	1.5	mg/kg
Dibromochloromethane	ND	1.5	mg/kg
Dibromomethane	ND	1.5	mg/kg
Dichlorodifluoromethane	ND	1.5	mg/kg
Methylene chloride	ND	1.5	mg/kg
Tetrachloroethene (PCE)	ND	1.5	mg/kg

Reference: Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

Analyst _____ **Reviewed** _____

Inter-Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

EPA METHOD 8010
PURGEABLE HALOCARBON COMPOUNDS

Client: **SUNCO TRUCKING**
Sample ID: Pipe Yard
Project ID: Pipe Yard
Lab ID: B981210
Matrix: Sludge

Date Reported: 04/02/98
Date Sampled: 03/20/98
Date Received: 03/24/98
Date Extracted: 04/01/98
Date Analyzed: 04/01/98

trans-1,2-Dichloroethene	ND	1.5	mg/kg
trans-1,3-Dichloropropene	ND	1.5	mg/kg
Trichloroethene (TCE)	ND	1.5	mg/kg
Trichlorofluoromethane	ND	1.5	mg/kg
Trichloropropane	ND	1.5	mg/kg
Vinyl Chloride	ND	1.5	mg/kg

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

Analyst _____ **Reviewed** _____

Inter-Mountain Laboratories, I

2506 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	**Sunco Trucking**		
Project:	Pipeyard	Date Reported:	03/30/98
Sample ID:	Pipeyard	Date Sampled:	03/20/98
Laboratory ID:	0398G01389	Date Received:	03/20/98
Sample Matrix:	Sludge	Date Analyzed:	03/28/98

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	0.005	0.005	5	mg/L
Barium	6.94	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	0.01	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By: _____ Reviewed: _____

Inter-Mountain Laboratories, I

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	Sunco Trucking	Date Reported:	03/30/98
Project:	Pipeyard	Date Analyzed:	03/28/98
Sample Matrix:	Extract	Date Received:	03/20/98

Known Analysis

Parameter	Found Result	Known Result	Percent Recovery	Units
Arsenic	0.011	0.010	110%	mg/L
Barium	0.95	1.00	95%	mg/L
Cadmium	1.040	1.000	104%	mg/L
Chromium	1.05	1.00	105%	mg/L
Lead	0.95	1.00	95%	mg/L
Mercury	0.004	0.004	100%	mg/L
Selenium	0.010	0.010	100%	mg/L
Silver	2.05	2.00	103%	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported by _____

Reviewed by _____

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis
Purgeable Aromatics

Client: **Sunco Trucking**
Project: Pipe Yard

Date Reported: 03/31/98
Date Analyzed: 03/30/98

Known Analysis

Parameter	Found Result (ppb)	Known Result (ppb)	Percent Recovery	Acceptance Limits
Benzene	19.3	20.0	**97%**	70-130%
Toluene	19.6	20.0	**98%**	70-130%
Chlorobenzene	19.6	20.0	**98%**	70-130%
Ethylbenzene	19.7	20.0	**99%**	70-130%
m+p-Xylene	40.7	40.0	**102%**	70-130%
o-Xylene	20.1	20.0	**100%**	70-130%
1,3-Dichlorobenzene	20.2	20.0	**101%**	70-130%
1,4-Dichlorobenzene	20.7	20.0	**104%**	70-130%
1,2-Dichlorobenzene	20.3	20.0	**102%**	70-130%

Quality Control: Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	101.3%	70-130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst _____

Reviewed by _____

Inter-Mountain Laboratories, I

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Spike Analysis / Blank Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	Sunco Trucking	Date Reported:	03/30/98
Project:	Pipeyard	Date Analyzed:	03/28/98
Sample Matrix:	Extract	Date Received:	03/20/98

Spike Analysis

Parameter	Spike Result (mg/L)	Sample Result (mg/L)	Spike Added (mg/L)	Percent Recovery
Arsenic	0.029	0.00	0.025	104%
Barium	2.63	1.55	1.00	108%
Cadmium	1.020	<0.004	1.000	102%
Chromium	1.08	<0.01	1.00	108%
Lead	0.92	<0.05	1.00	92%
Mercury	0.005	<0.001	0.005	104%
Selenium	0.023	<0.005	0.025	92%
Silver	N/A	N/A	N/A	N/A

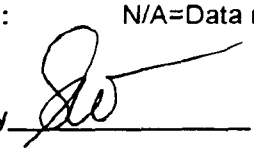
Method Blank Analysis

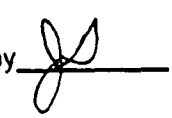
Parameter	Result	Detection Limit	Units
Arsenic	ND	0.005	mg/L
Barium	ND	0.01	mg/L
Cadmium	ND	0.004	mg/L
Chromium	ND	0.01	mg/L
Lead	ND	0.05	mg/L
Mercury	ND	0.001	mg/L
Selenium	ND	0.005	mg/L
Silver	ND	0.01	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments: N/A=Data not available.

Reported by 

Reviewed by 

Inter-Mountain Laboratories, Ir

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Duplicate Analysis

Lab ID: 0398G01384
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 03/31/98
Date Analyzed: 03/30/98

Target Analyte	Duplicate Concentration (ppb)	Original Concentration (ppb)	% Difference
Benzene	12.9	12.1	6.4
Toluene	16.1	15	7.1
Chlorobenzene	ND	ND	NA
Ethylbenzene	ND	ND	NA
m,p-Xylenes	2.44	2.7	10.1
o-Xylene	2.01	1.9	5.6
1,3-Dichlorobenzene	ND	ND	NA
1,4-Dichlorobenzene	ND	ND	NA
1,2-Dichlorobenzene	ND	ND	NA

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	90.8%	70 -130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst

Review

Inter-Mountain Laboratories, I

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Method Blank Analysis

Sample Matrix:	Water	Report Date:	03/31/98
Lab ID:	Method Blank	Date Analyzed:	03/30/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	0.2
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	ND	0.2
o-Xylene	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	95.0%	70-130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst

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Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Matrix Spike Analysis

Lab ID: 0398G01384
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 03/31/98
Date Analyzed: 03/30/98

Target Analyte	Spiked Sample Result in ppb	Sample result in ppb	Spike Added (ppb)	% Recovery	Acceptance Limits (%)
Benzene	29.70	12.10	20.0	88.0%	70-130
Toluene	31.50	15.00	20.0	82.5%	70-130
Chlorobenzene	20.60	ND	20.0	103.0%	70-130
Ethylbenzene	21.20	ND	20.0	106.0%	70-130
m,p-Xylenes	42.90	2.70	40.0	100.5%	70-130
o-Xylene	20.20	1.90	20.0	91.5%	70-130
1,3-Dichlorobenzene	16.10	ND	20.0	80.5%	70-130
1,4-Dichlorobenzene	16.00	ND	20.0	80.0%	70-130
1,2-Dichlorobenzene	16.00	ND	20.0	80.0%	70-130

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	102.3%	70 -130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst

Review

Inter Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC
EPA METHOD 8010
METHOD BLANK

Date Analyzed: **03/31/98**
Lab ID: MBW000090
Matrix:

Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1-Chlorohexane	ND	5.0	ug/L
2-Chloroethylvinyl ether	ND	5.0	ug/L
Benzyl chloride	ND	5.0	ug/L
bis(2-Chloroethoxy)methane	ND	5.0	ug/L
bis(2-Chloroisopropyl)ether	ND	5.0	ug/L
Bromobenzene	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
Bromomethane	ND	5.0	ug/L
Carbon Tetrachloride	ND	5.0	ug/L
Chloroacetaldehyde	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
Chloromethylmethyl ether	ND	5.0	ug/L
Chlorotoluene	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
Dibromomethane	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
Tetrachloroethene (PCE)	ND	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene (TCE)	ND	5.0	ug/L

Analyst _____ Reviewed _____

Inter Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC
EPA METHOD 8010
METHOD BLANK

Date Analyzed: **03/31/98**
Lab ID: MBW000090
Matrix:

Parameter	Result	PQL	Units
Trichlorofluoromethane	ND	5.0	ug/L
Trichloropropane	ND	5.0	ug/L
Vinyl Chloride	ND	5.0	ug/L

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst _____

Reviewed _____

CHAIN OF CUSTODY RECORD

Inter-Mountain Laboratories, Inc.

Client/Project Name	Project Location	ANALYSES / PARAMETERS
SUNCO TRUCKING	PIPEYARD	
Sampler: (Signature) Mike Talovich	**Chain of Custody Tape No.**	**Remarks**

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers
~~Water~~ Pipe Yard	3-20-98	1500		H_2O	8
~~Sludge~~ Pipeyard	3-20-98	1500		Sludge	4
					CR
					Intact, hand delivered

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Mike Talovich	3-20-98	15:45			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by laboratory: (Signature)	Date	Time
			Chris Raynes	3-20-98	1545

Inter-Mountain Laboratories, Inc.

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