

**A REVISED REPORT OF AN
ABOVE GROUND STORAGE TANK
INSTALLATION AND UNDERGROUND
STORAGE TANK CLOSURE
AT
PARAGON ELECTRIC COMPANY
TWO RIVERS, WISCONSIN**

**PREPARED FOR:
SKIP LUBENOW
PARAGON ELECTRIC COMPANY
606 PARKWAY BOULEVARD
TWO RIVERS, WISCONSIN**

**PREPARED BY:
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Date?

March 12, 1990

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I. INTRODUCTION

Paragon Electric Company, Incorporated, retained Chem-Bio Corporation (CBC) Environmental Services of Oak Creek, Wisconsin, to perform an underground storage tank closure and soil assessment. Additionally, three (3) aboveground storage tanks were installed at the Paragon Electric Company, located at 606 Parkway Boulevard, Two Rivers, Wisconsin. This report details the work conducted at the Two Rivers facility.

II. SITE LOCATION AND DESCRIPTION

The property assessed is located in the Southwest 1/4 of the Northeast 1/4 of Section 2, Township 19 North, Range 24 East, Manitowoc County, Wisconsin. Specifically, the facility is located due west of the intersection of Lowell Street and Roosevelt Avenue, in the city of Two Rivers (see Figure 1).

A building used for the manufacturing of timers, time switches and sub-fractional motors and office space is located on 26.77 acres of land. The western portion of the facility is bordered by a parking area. The north and east sides of the facility are bordered by 7th Street and Bucholz Street respectively. The southern portion is bordered by a bituminous driveway. The bituminous drive is paralleled by tracks owned by the Chicago and Northwestern Railroad.

III. ABOVE GROUND STORAGE TANK INSTALLATION

During the week of December 26, 1989, CBC supervised the installation of the following above ground storage tank systems.

<u>Tank ID</u>	<u>Tank Volume (Gallons)</u>	<u>Substance Stored</u>
A	540	Cutting Oil
B	540	Mineral Spirits
C	1080	# 2 Fuel Oil

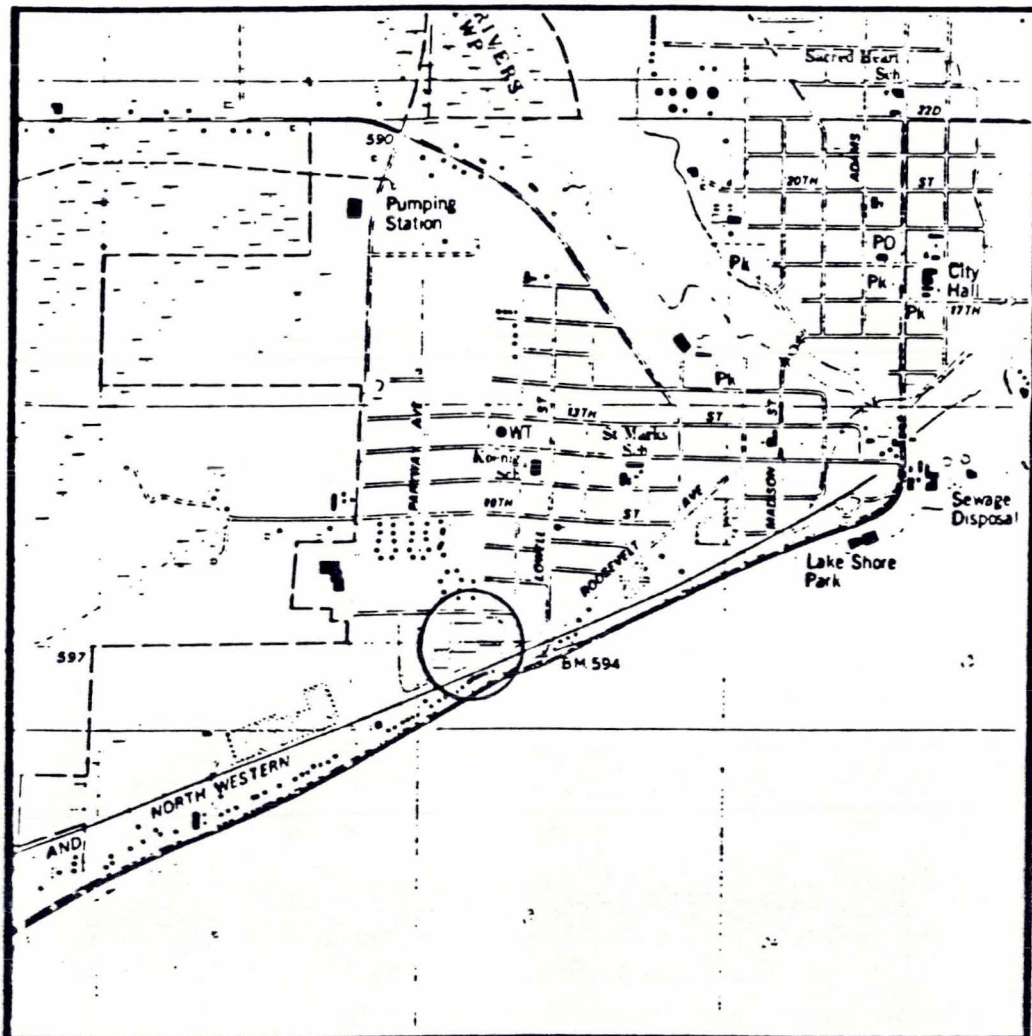
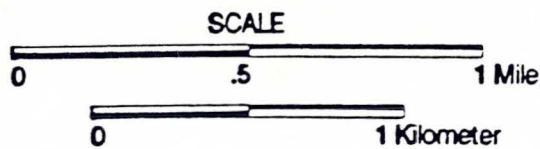


Figure 1



SITE LOCATION MAP

Paragon Electric Company, Inc.
 606 Parkway Boulevard
 Two Rivers, Wisconsin



Adapted from USGS 7.5 min. Topographic Quadrangle, Manitowoc 1971

Locations of these tank systems are found in Figure 2. Material Safety Data sheets of these materials are presented as Appendix A.

Tank Design - The above referenced tank systems were manufactured by A & S Welding Company - Division of IPS, Incorporated. Each tank and dike was constructed with 10 gauge steel and coated with a red primer. Each secondary containment dike was designed to hold 125% of the total volume of each tank. All of the tanks were outfitted with an emergency vent, a working vent, a float gauge, and locking fill cap. Additionally, venting for the mineral spirits tank was piped outside of the building and outfitted with a 2-inch flame arrestor.

Permits - A permit for the installation of the above ground storage tanks was obtained from the City of Two Rivers. An application plan and specifications were submitted to Chief Kenneth Swade of the Two Rivers Fire Department and Marvin Now, Building Inspector for the City of Two Rivers. Permit No. 30415 was issued November 20, 1989, for the tank installation. A copy of the permit has been presented as Appendix B.

IV. UNDERGROUND STORAGE TANK REMOVAL

During the week of December 26, 1989, CBC supervised the removal of the following underground storage tank systems.

<u>Tank ID</u>	<u>Tank Volume (Gallons)</u>	<u>Substance Stored</u>	<u>Underwriters Laboratory, Inc. Inspection Number</u>
#1	550	Mineral Spirits	No. D-641774
#2	550	Cutting Oil	No. D-641775
#3	2000	Cutting Oil	None

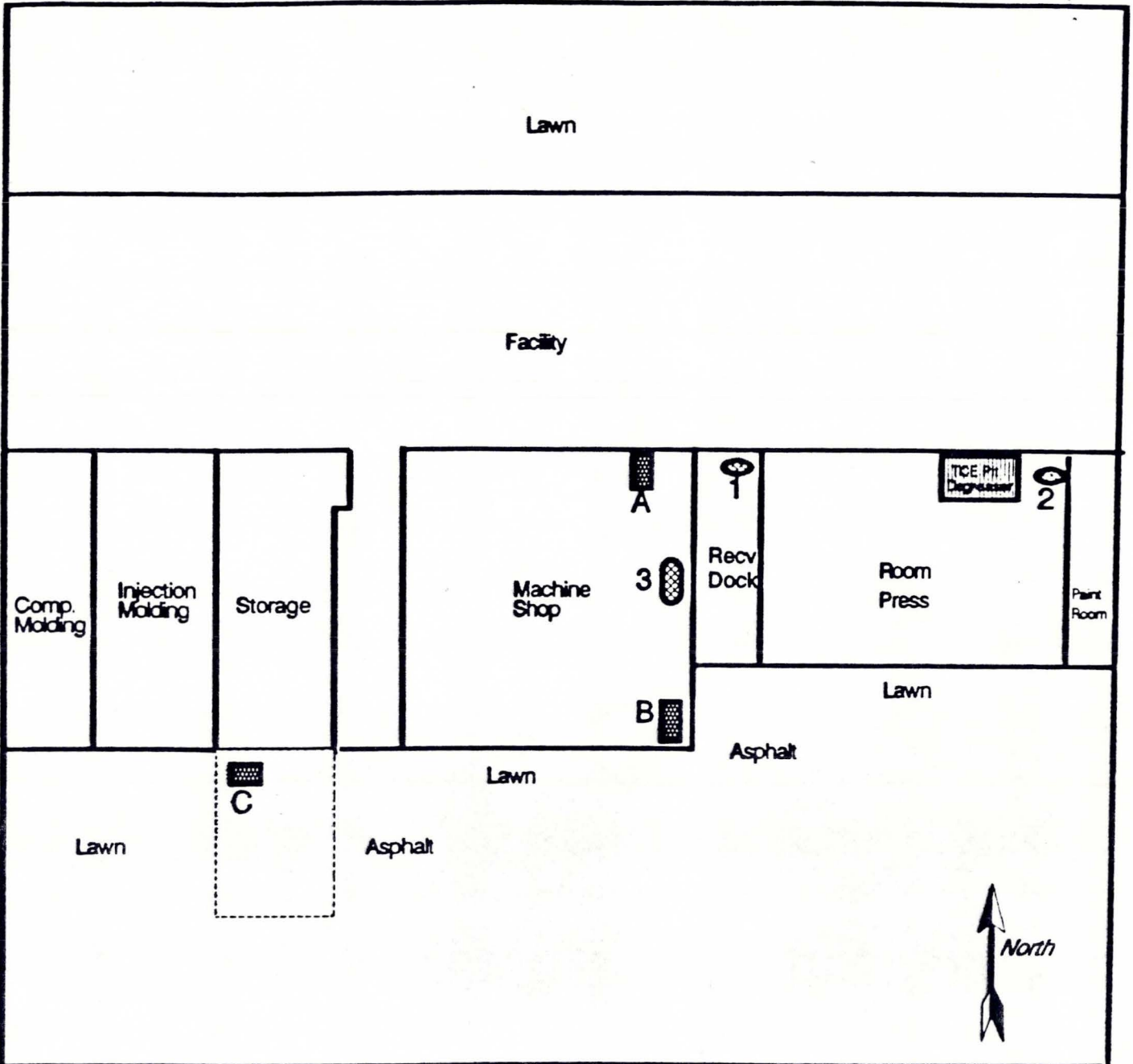


Figure 2

NOT TO SCALE

TANK LOCATION MAP

Paragon Electric Company, Inc.
 606 Parkway Boulevard
 Two Rivers, Wisconsin

KEY

-  Under Ground Storage Tanks
-  Above Ground Storage Tanks
-  Fenced Area

Location of these tank systems are found in Figure 2.

Permits - A permit for the removal of the underground storage tank systems was obtained from the City of Two Rivers. An application plan for the removal was submitted to Chief Kenneth Swade of the Two Rivers Fire Department and Marvin Now, Building Inspector for the City of Two Rivers. Permit No. 30414 was issued November 20, 1989, for the tank's removal. A copy of this permit has been presented as Appendix C.

Excavation - Autoquip, Incorporated, of Milwaukee, Wisconsin, was contracted by CBC to remove and dispose of the underground storage tanks. To remove each tank, the concrete pad above each tank was broken up with a 90 pound jackhammer. The broken concrete was removed and stockpiled adjacent to the excavation. Fill material that had encapsulated each tank was also removed and stockpiled adjacent to the excavation. Each tank was removed intact and visually inspected for exterior corrosion, pitting, or holes. Each tank pit was backfilled with the stockpiled concrete, backfill and additional pea gravel. A six (6) inch concrete pad was poured over the backfilled area to complete the closure.

Soils Assessment - During the tank removal, soils were field screened with a Microtip Photoionization Detector (PID) meter utilizing a 10.6 electron volt (eV) lamp. The samples were collected and field screened for the presence of volatile compounds to determine the impact each material stored in the tanks may have had on the surrounding soils.

Soil samples from the tank pit base and side walls were containerized in glass jars, sealed with a teflon-lined cap and placed into a cooler. Samples were accompanied by a Chain-of-Custody document and transported to the CBC

Environmental Services laboratory for chemical analysis. The purpose of the analysis was to determine general soil quality for the tank pit boundaries. Details of the sample locations and PID results are as follows:

TABLE 1

TANK 1 *MVA Sprites*
(See Figure 3 for Sample Collection Locations)

<u>Sample ID</u>	<u>Depth (Feet)</u>	<u>PID Results (Parts Per Million)</u>	<u>Laboratory Results Appendix D</u>
Base East	7	78.8	Yes
Base West	7	148	Yes
Side West	5	5.4	No
Side South	5	4.2	No
Fill Composite	-	13.1	No

TABLE 2

TANK 2 *Cutting Oil*
(See Figure 4 for Sample Collection Locations)

<u>Sample ID</u>	<u>Depth (Feet)</u>	<u>PID Results (Parts Per Million)</u>	<u>Laboratory Results Appendix E</u>
Base East	7	334	Yes
Base West	7	231	Yes
Side East	5	94.8	No
Side South	5	762	Yes
Side North	5	961	Yes
Fill Composite	-	73.7	No

TABLE 3

TANK 3			
(See Figure 5 for Sample Collection Locations)			
<u>Sample ID</u>	<u>Depth (Feet)</u>	<u>PID Results (Parts Per Million)</u>	<u>Laboratory Results Appendix F</u>
Side West	6	26.4	Yes
Side North	6	97.9	Yes
Side South	6	2.4	No
Composite Fill	-	10.9	No

Note: Tank 3 was strapped to a concrete slab. Samples were not accessible underneath the slab.

Soil Analysis - A total of nine (9) soil samples from the three (3) tank pits were submitted to the CBC laboratory and analyzed for petroleum hydrocarbons and solvents. The laboratory results are found in Table 4. The laboratory reports are presented as Appendix D.

As shown in Table 4, petroleum hydrocarbons were detected in three (3) samples; Tank 1/Base East (180 ppm); Tank 1/Base West (79 ppm); Tank 3/Side West (8.3 ppm). Additionally, trichloroethylene was detected in two (2) samples; Tank 2/Side South (11 ppm), and Tank 2/Side North (85 ppm).

V. SITE GEOLOGY

Regional Geology - In general, the Paragon Electric Company facility lies in an area of lake deposits that overlies bedrock. The lake deposits are comprised of organic materials and stratified clay, silt and sands. These deposits primarily occur along the shores of Lake Michigan and Green Bay.

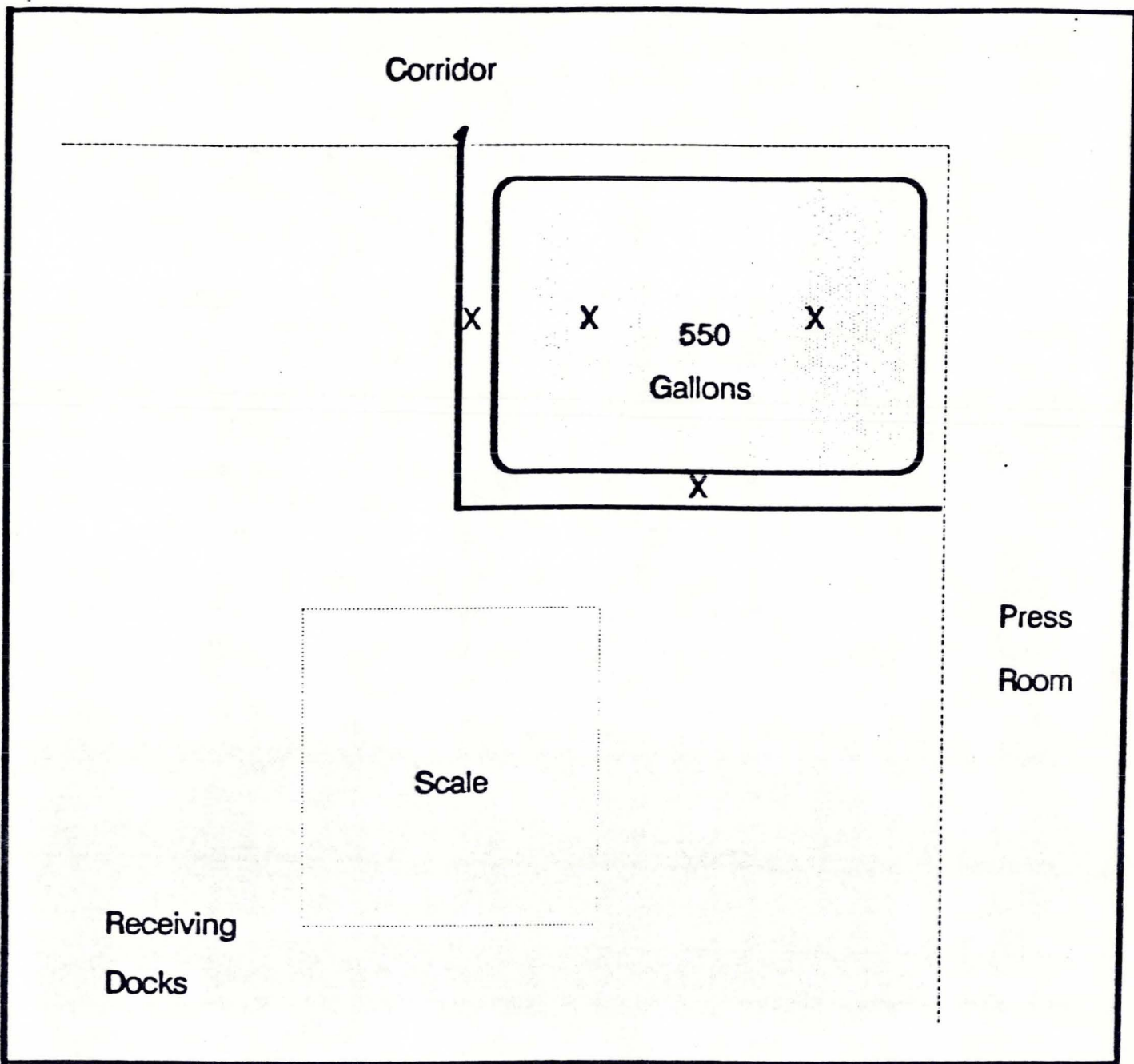
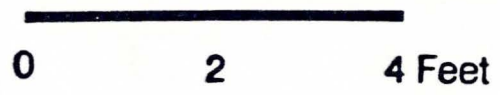


Figure 3



SAMPLE LOCATION MAP
UNDER GROUND STORAGE TANK 1

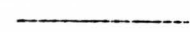
mineral spirits

Paragon Electric Company, Inc.
 606 Parkway Boulevard
 Two Rivers, Wisconsin

KEY



Under Ground Storage Tank



Concrete Wall



Sample Location

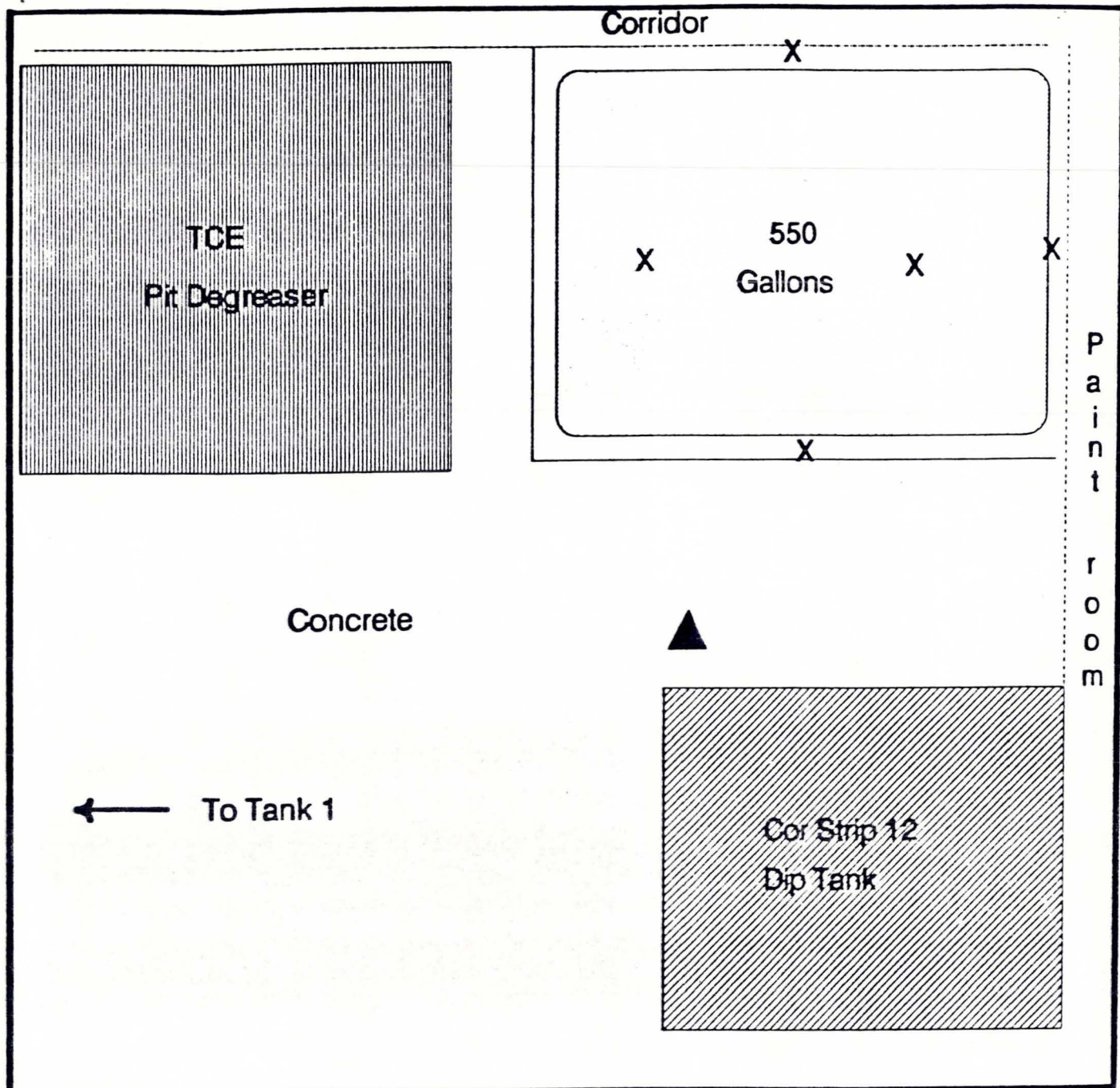


Figure 4

0 2 4 Feet

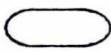





SAMPLE LOCATION MAP
UNDER GROUND STORAGE TANK 2

Paragon Electric Company, Inc.
 606 Parkway Boulevard
 Two Rivers, Wisconsin

cutting oil

KEY

-  Under Ground Storage Tank
-  Concrete Wall
-  Sample Location
-  Eye Wash

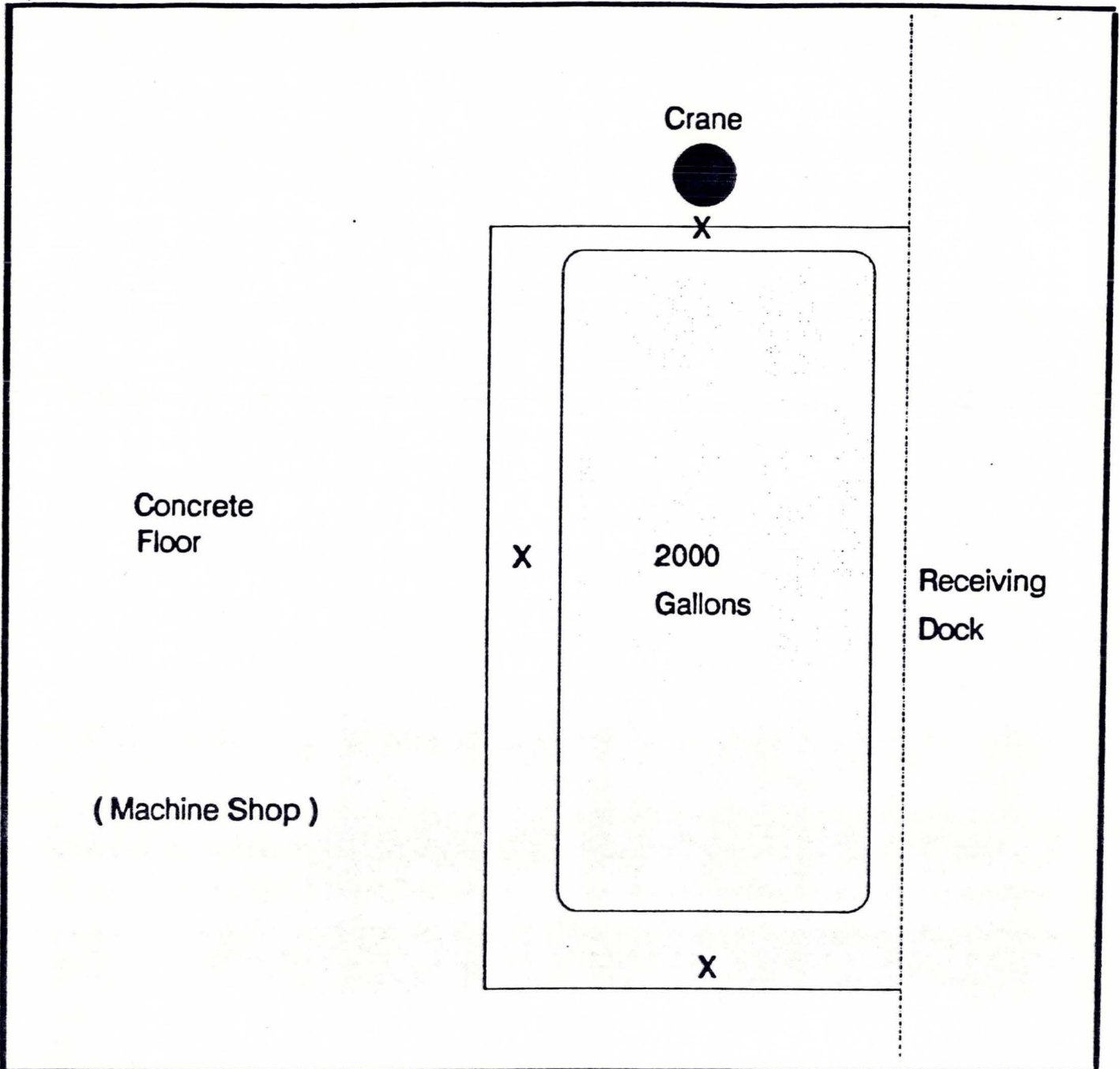


Figure 5

0 2 4 Feet



SAMPLE LOCATION MAP
UNDER GROUND STORAGE TANK 3

Paragon Electric Company, Inc.
 606 Parkway Boulevard
 Two Rivers, Wisconsin

Cutting oil

KEY



Under Ground Storage Tank



Concrete Wall



Sample Location

TABLE 4
LABORATORY RESULTS

<u>Sample ID</u>	<u>Total Petroleum Hydrocarbons (Parts per Million)</u>	<u>Trichloroethylene (Parts per Million)</u>
Tank 1/Base East	180	<0.010
Tank 1/Base West	79	<0.010
Tank 2/Base West	<4.0	0.24
Tank 2/Base East	<4.0	<0.010
Tank 2/Side South	<4.0	11
Tank 2/Side North	<4.0	85
Tank 3/Side North	<4.0	<0.010
Tank 3/Side West	8.3	<0.010

Site Geology - The tank pit geologic setting is not reflective of the regional geology. Geology in the tank pits consist of a permeable fine to medium grained brown sand from the surface to the bottom of the tank pit.

VI. CONCLUSIONS

The areas of the investigation contained two (2) 550 and one (1) 2000 gallon underground storage tanks. Analysis of soil samples collected from the base and side walls of the excavations revealed the presence of petroleum hydrocarbons in the Tank 1 excavation. Analysis of possible solvent contamination revealed the presence of trichloroethylene in the Tank 2 excavation. Contamination is located in a fine to medium brown sand. Groundwater was not encountered in any of the excavations.

VII. RECOMMENDATIONS

Contaminated Soil - Petroleum Hydrocarbons and trichloroethylene were detected in two (2) of the excavations. It does appear that Underground Storage Tank 1 was the source of the petroleum hydrocarbons, however, it does not appear that Underground Storage Tank 2 was the source of the trichloroethylene contamination. The source of the trichloroethylene may be from the TCE pit degreaser adjacent to the tank excavation.

Therefore, it is recommended that the Department of Natural Resources (DNR) should be notified of the petroleum hydrocarbon and trichloroethylene contamination found in the soil. A proposal for a subsurface/hydrogeologic investigation of the site should be submitted to the DNR for their approval.

APPENDIX A
MATERIAL SAFETY DATA SHEETS

Section V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 500 ppm

EFFECTS OF OVEREXPOSURE

Vapors are intoxicating and narcotic and are irritating to mucous membranes of lungs. Liquid is harmful and/or fatal if swallowed.

EMERGENCY AND FIRST AID PROCEDURES

If overcome by vapors, remove victim from contaminated area. Keep victim warm and at rest. If breathing has stopped, give artificial respiration. If swallowed do not induce vomiting. Call Physician immediately. Avoid frequent and/or prolonged contact with skin.

Section VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Stable under most conditions, forms explosive and combustible mixtures with air or oxygen.

INCOMPATIBILITY (Materials to avoid)

combustible mixtures with air or oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS

None - combustion products are carbon dioxide and water.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

Section VII - SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Material is flammable and care should be exercised to prevent fire. Spilled material be pumped into another container, or absorbed and removed from the area. All sparks and ignition sources should be kept out of area. Non-sparking tools should be used.

WASTE DISPOSAL METHOD Incineration

Section VIII - SPECIFIC PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Self contained or supply air masks for entering area of concentrated vapor.		
VENTILATION	LOCAL EXHAUST Use in well ventilated area.	SPECIAL Vapors heavier than air
	MECHANICAL (General) Mechanical exhaust at floor level.	OTHER
PROTECTIVE GLOVES Use rubber and/or plastic gloves	EYE PROTECTION Keep liquid and vapor out of eyes.	
OTHER PROTECTIVE EQUIPMENT		

Section IX - SPECIAL PRECAUTIONS

CAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed. Do not store or use near heat, sparks or flame. Keep in a cool dry place.

OTHER PRECAUTIONS

Ground all containers when transferring liquid. Avoid prolonged contact with liquid and/or vapor. Use non-sparking tools.

MATERIAL SAFETY DATA SHEET

Identity: KLEAR KUT 215

MSDS #: 2320

Section I

Supplier Information

Name: BENZ OIL INC.
Addr: 2724 W. HAMPTON AVE.

Emergency Telephone Number
442-9450 DAY
Telephone Number for Information

City: MILWAUKEE
State: WI 53209

Date Prepared: 07/17/89

Other Information
464-5872 NIGHT EMERGENCY PHONE

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Spec. Chem. Ident.; Common Name)	OSHA PEL	ACGIH TLV	CAS #	% (opt.)
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-

Section III - Physical/Chemical Characteristics

Boiling Point
500+ F.
Vapor Pressure (mm Hg)
<0.001
Vapor Density (AIR = 1)
APPROXIMATELY 12
Solubility in Water
NEGLECTABLE

Specific Gravity (H2O = 1)

Melting Point

Evaporation Rate (Butyl Acetate = 1)
<0.001

Appearance and Odor

Other Information

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)

390 F.

Flammable Limits

LEL 1.0%

UEL 6.0%

Extinguishing Media

FOAM, CO2, OR DRY CHEMICAL

Special Firefighting Procedures

USE AIR SUPPLIED RESCUE EQUIPMENT FOR ENCLOSED AREAS, IN CASE OF FIRE.
COOL EXPOSED CONTAINERS WITH WATER.

Unusual Fire and Explosion Hazards

DO NOT STIR OR MIX WITH STRONG OXIDANTS

Other Information

Section V - Reactivity Data

Stability --> STABLE

Conditions to Avoid

Incompatibility (Materials to Avoid)

THEMAL DECOMPOSITION. HYDROGEN CHLORIDE, CARBON MONOXIDE, CARBON
Hazardous Decomposition or Byproducts
THEMAL DECOMPOSITION. HYDROGEN CHLORIDE, CARBON MONOXIDE, CARBON
DIOXIDE

Hazardous Polymerization --> WILL NOT OCCUR
Conditions to Avoid

Other Information

Section VI - Health Hazard Data

Routes of Entry: Inhalation? NO Skin? YES Ingestion? NO

Health Hazards (Acute and Chronic)
MILD SKIN IRRITATION MAY OCCUR

Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO

Signs and Symptoms of Exposure

Medical Conditions Generally Aggravated by Exposure

Emergency and First Aid Procedures

WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF SPLASHED IN EYE FLUSH
THOROUGHLY WITH WATER. IF IRRITATION PERSISTS SEE A PHYSICIAN.
CLEANLINESS AND PERSONAL HYGENE ARE IMPORTANT.

Other Information

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled
RECOVER LIQUID AND PICK UP WITH ABSORBENT.

Waste Disposal Method
NORMAL PROCEDURE FOR PETROLEUM PRODUCTS.

Precautions to be Taken in Handling or Storage
KEEP CONTAINERS CLOSED AND STORE AWAY FROM EXCESSIVE HEAT OR OPEN
FLAME.

Other Precautions
AVOID BREATHING OIL MIST. REMOVE OIL IMPREGNATED CLOTHING.
WASH THOROUGHLY.

Section VIII - Control Measures

Respiratory Protection (Specify Type)
NOT NEEDED

Ventilation

Local Exhaust

ADEQUATE

Mechanical (General)

Special

Other

Protective Gloves

YES IF ALLERGIC

Eye Protection

SAFETY GLASSES RECOMMENDED.

Other Protective Clothing or Equipment

PROTECT OPERATORS CLOTHING FROM EXCESSIVE OIL SATURATION BY NEOPRENE
APRON IF NECESSARY.

Work/Hygenic Practices

Other Information

5 of 5 Blank

72-62-7825-01

Ashland Petroleum Company
DIVISION OF ASHLAND OIL CO. INC.

P O BOX 2180 GREEN BAY WISCONSIN 54306

24-HOUR EMERGENCY TELEPHONE (800) 324-1103



MATERIAL SAFETY
DATA SHEET

003158

FUEL OIL #2

Page: 1

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

Product Name: FUEL OIL #2
CAS NUMBER: 68476-30-2

02 01 857 34193 -001

Data Sheet No: 0013917-004
Prepared: 05/03/89
Supersedes: 05/20/88

MALRON OIL COMPANY
-INCORPORATED
P O BOX 2180

GREEN BAY WI 54306

ATTN: PLANT MGR/SAFETY DIR.

PRODUCT: 250522
INVOICE: 080770
INVOICE DATE: 03/23/89
TO: MALRON OIL COMPANY INC
VARIOUS MI DESTINATIONS 48000

SECTION I - PRODUCT IDENTIFICATION

General or Generic ID: MIXTURE - ALIPHATIC AND AROMATIC HYDROCARBONS

DOT Hazard Classification: COMBUSTIBLE (273,315)

SECTION II - COMPOSITION

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.
SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT	% (by WT)	REL	TLV	Note
MIXTURE - ALIPHATIC AND AROMATIC HYDROCA CAS #: 68476-30-2	100	800 PPM		(1)

Notes:

(1) TLV NOT ESTABLISHED FOR THIS MATERIAL.

NIOSH RECOMMENDS A LIMIT OF 100 MG/CUM - 10 HOUR TIME WEIGHTED AVERAGE.

SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point	for PRODUCT	> 320.00 Deg F (360.00 Deg C) (760.00 mm Hg)
Vapor Pressure	for PRODUCT	< 2.00 mm Hg (77.00 Deg F) (25.00 Deg C)
Specific Vapor Density	AIR = 1	> 5.0
Specific Gravity		.876 (60.00 Deg F) (15.55 Deg C)
Percent Volatiles		10-30%
Evaporation Rate		SLOWER THAN ETHER
Appearance		CLEAR, LIGHT AMBER
State		LIQUID
Form		HOMOGENEOUS SOLN

SECTION IV - REACTIVE AND EXPOSURE INFORMATION

FLASH POINT(COC) > 135.0 Deg F (57.2 Deg C)

EXPLOSIVE LIMIT UNAVAILABLE

EXTINGUISHING MEDIA: REGULAR FOAM OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS: CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT AND POSSIBLY ENDANGER THE LIFE OF THE FIREFIGHTER, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.

SPECIAL FIRE & EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

ALL FIVE GALLON PAILS AND LARGER METAL CONTAINERS INCLUDING TANK CARS AND TANK TRUCKS SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.

NTPA CODES: HEALTH- 1 FLAMMABILITY- 2 REACTIVITY- 0

62-7825-01

Ashland Petroleum Company
DIVISION OF ASHLAND CHEMICALMATERIAL SAFETY
DATA SHEETP.O. BOX 261 - ASHLAND, MISSOURI 64820-0261
24-HOUR EMERGENCY TELEPHONE (605) 374-1133

003158

FUEL OIL #2

Page: 2

~~SECTION 2 - HAZARDOUS INFORMATION~~
~~SECTION 3 - COMPOSITION AND INFORMATION ON THE HAZARDOUS DATA~~
EFFECTS OF ACUTE OVEREXPOSURE: FOR COMPONENT

EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION.
SKIN - PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS.
BREATHING - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DIZZINESS, HEAVINESS, FATIGUE, NAUSEA, HEADACHE AND POSSIBLE UNCONSCIOUSNESS, AND EVEN DEATH.
SWALLOWING - CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

FIRST AID:

IF ON SKIN: THOROUGHLY WASH SKIN WITH MINERAL OIL, THEN SOAP AND WATER, WHETHER PRODUCT HAS CONTACTED BODY OR NOT. IMMEDIATELY DISCARD CONTAMINATED CLOTHING AND SHOES.
IF IN EYES: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION.
IF SWALLOWED: DO NOT INDUCE VOMITING, KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION. ASPIRATION OF MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.
IF BREATHED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

PRIMARY ROUTE(S) OF ENTRY:

INHALATION, SKIN CONTACT

EFFECTS OF CHRONIC OVEREXPOSURE: FOR COMPONENT

THIS PRODUCT CONTAINS DIESEL FUEL #2. MATERIALS SIMILAR TO DIESEL FUEL #2 HAVE BEEN SHOWN TO PRODUCE SKIN CANCER IN LABORATORY ANIMALS FOLLOWING REPEATED SKIN EXPOSURE WITHOUT WASHING OR REMOVAL.

HAZARDOUS POLYMERIZATION: CANNOT OCCURSTABILITY: STABLEINCOMPATIBILITY: AVOID CONTACT WITH: STRONG OXIDIZING AGENTS.~~SECTION 4 - FIRE AND EXPLOSION HAZARD DATA~~
~~SECTION 5 - REACTIVITY DATA~~
~~SECTION 6 - TOXICOLOGICAL INFORMATION~~
~~SECTION 7 - ECOTOXICOLOGICAL INFORMATION~~
~~SECTION 8 - OTHER INFORMATION~~
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: ELIMINATE ALL SOURCES OF IGNITION SUCH AS FLARES, FLAMES (INCLUDING PILOT LIGHTS), AND ELECTRICAL SPARKS.

ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD.

LARGE SPILL: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE. DIKE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS.

WASTE DISPOSAL METHOD:

SMALL SPILL: ALLOW VOLATILE PORTION TO EVAPORATE IN HOOD. ALLOW SUFFICIENT TIME FOR VAPORS TO COMPLETELY CLEAR HOOD DUCT WORK. DISPOSE OF REMAINING MATERIAL IN ACCORDANCE WITH APPLICABLE REGULATIONS.

LARGE SPILL: DESTROY BY LIQUID INCINERATION.

CONTAMINATED ABSORBENT MAY BE DEPOSITED IN A LANDFILL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

~~SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES~~
~~SECTION 10 - REGULATORY INFORMATION~~
~~SECTION 11 - OTHER INFORMATION~~
RESPIRATORY PROTECTION: IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE SECTION 11), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS: NEOPRENE, NITRILE RUBBER

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

~~SECTION 12 - INFORMATION ON CHEMICAL SAFETY HAZARD INVESTIGATION~~
~~SECTION 13 - OTHER INFORMATION~~
CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS DATASHEET MUST BE OBSERVED.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

18-62-7825-01

Asphalt Petroleum Company
DIVISION OF ASKLAND OIL CO



**MATERIAL SAFETY
DATA SHEET**

P O BOX 211 - ASPHALT PETROLEUM CO - 322120 2400
24-HOUR EMERGENCY TELEPHONE (805) 324-9133

003158

FUEL OIL #2

Page: 3

~~CONFIDENTIAL - INFORMATION NOT TO BE RELEASED TO THE PUBLIC~~

WARNING!

- COMBUSTIBLE LIQUID AND VAPOR
- MAY CAUSE EYE AND SKIN IRRITATION.
- INHALATION OF VAPOR MAY CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES.
- SWALLOWING MAY CAUSE IRRITATION OF MOUTH, ESOPHAGUS, AND GASTROINTESTINAL SYSTEM AND MAY BE FATAL.

HANDLING & STORAGE:

KEEP AWAY FROM HEAT AND OPEN FLAME. USE OR STORE ONLY WITH ADEQUATE VENTILATION. MAINTAIN AMBIENT AIR CONCENTRATION(S) OF VOLATILE COMPONENT(S) BELOW PERMISSIBLE EXPOSURE LIMITS. AVOID CONTACT WITH EYES AND PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR SAFETY GLASSES OR GOGGLES, RESISTANT GLOVES, AND OTHER APPROPRIATE PROTECTIVE EQUIPMENT ESSENTIAL FOR YOUR OPERATION. MINIMIZE EXPOSURE THROUGH GOOD HYGIENIC PRACTICES. DO NOT TRANSFER TO UNLABELED CONTAINER. DO NOT USE CUTTING OR WELDING TORCH ON THIS CONTAINER (EVEN EMPTY). FOR INDUSTRIAL USE ONLY. REFER TO MATERIAL SAFETY DATA SHEET (AVAILABLE UPON REQUEST) FOR FURTHER INFORMATION. 24-HOUR EMERGENCY NUMBER 1-800-ASKLAND

FIRST AID:

- EYES:** FLUSH THOROUGHLY WITH WATER. CALL A PHYSICIAN IMMEDIATELY.
- SKIN:** WASH THOROUGHLY WITH SOAP AND WATER.
- INHALATION:** IF AFFECTED, REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GET MEDICAL ATTENTION.
- INGESTION:** DO NOT INDUCE VOMITING. CALL PHYSICIAN OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

CHRONIC INFORMATION:

CONTAINS: PETROLEUM DISTILLATES.

*** COMPONENTS APPEAR IN SECTION II ***

12-62-7825-01

**MATERIAL SAFETY
DATA SHEET**

Ashland Petroleum Company
DIVISION OF ASTLAND OIL CO.

P.O. BOX 381 - ASPHALD KENTUCKY 40321-0381
24-HOUR EMERGENCY TELEPHONE (606) 324-1133



DEFINITIONS

This definition page is intended for use with Material Safety Data Sheets supplied by the Ashland Petroleum Company. Recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G - Occupational Health and Environmental Control, and subpart I - Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

**SECTION I
PRODUCT IDENTIFICATION**

GENERAL OR GENERIC ID: Chemical family or product description.

DOT HAZARD CLASSIFICATION: Product meets DOT criteria for hazards listed.

**SECTION II
COMPONENTS**

Components are listed in this section if they present a physical or health hazard and are present at or above 1% in the mixture. If a component is identified as a CARCINOGEN by NTP, IARC or OSHA as of the date on the MSDS, it will be listed and footnoted in this section when present at or above 0.1% in the product. Negative conclusions concerning carcinogenicity are not reported. Additional health information may be found in Section V. Components subject to the reporting requirements of Section 313 of SARA Title III are identified in the footnotes in this section, along with typical percentages. Other components may be listed if deemed appropriate.

Exposure recommendations are for components. OSHA Permissible Exposure Limits (PELs) and American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) appear on the line with the component identification. Other recommendations appear as footnotes.

**SECTION III
PHYSICAL DATA**

BOILING POINT: Of product if known. The lowest value of the components is listed for mixtures.

VAPOR PRESSURE: Of product if known. The highest value of the components is listed for mixtures.

SPECIFIC VAPOR DENSITY: Compared to AIR = 1. If Specific Vapor Density of product is not known, the value is expressed as lighter or heavier than air.

SPECIFIC GRAVITY: Compared to WATER = 1. If Specific Gravity of product is not known, the value is expressed as less than or greater than water.

pH: If applicable

PERCENT VOLATILES: Percentage of material with initial boiling point below 425 degrees Fahrenheit.

EVAPORATION RATE: Indicated as faster or slower than ETHYL ETHER, unless otherwise stated.

**SECTION IV
FIRE AND EXPLOSION DATA**

FLASH POINT: Method identified.

EXPLOSION LIMITS: For product if known. The lowest value of the components is listed for mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS: Known or expected hazardous products resulting from heating, burning or other reactions.

EXTINGUISHING MEDIA: Following National Fire Protection Association criteria.

SECTION IV (cont.)

FIREFIGHTING PROCEDURES: Minimum equipment to protect firefighters from toxic products of vaporization, combustion or decomposition in fire situations. Other firefighting hazards may also be indicated.

SPECIAL FIRE AND EXPLOSION HAZARDS: States hazards not covered by other sections.

NFPA CODES: Hazard ratings assigned by the National Fire Protection Association.

**SECTION V
HEALTH HAZARD DATA**

PERMISSIBLE EXPOSURE LIMIT: For product.

THRESHOLD LIMIT VALUE: For product.

EFFECTS OF ACUTE OVEREXPOSURE: Potential local and systemic effects due to single or short term overexposure to the eyes and skin or through inhalation or ingestion.

EFFECTS OF CHRONIC OVEREXPOSURE: Potential local and systemic effects due to repeated or long term overexposure to the eyes and skin or through inhalation or ingestion.

FIRST AID: Procedures to be followed when dealing with accidental overexposure.

PRIMARY ROUTE OF ENTRY: Based on properties and expected use.

**SECTION VI
REACTIVITY DATA**

HAZARDOUS POLYMERIZATION: Conditions to avoid to prevent hazardous polymerization resulting in a large release of energy.

STABILITY: Conditions to avoid to prevent hazardous or violent decomposition.

INCOMPATIBILITY: Materials and conditions to avoid to prevent hazardous reactions.

**SECTION VII
SPILL OR LEAK PROCEDURES**

Reasonable precautions to be taken and methods of containment, clean-up and disposal. Consult federal, state and local regulations for accepted procedures and any reporting or notification requirements.

**SECTION VIII
PROTECTIVE EQUIPMENT TO BE USED**

Protective equipment which may be needed when handling the product.

**SECTION IX
SPECIAL PRECAUTIONS OR OTHER COMMENTS**

Covers any relevant points not previously mentioned.

**SECTION X
LABEL INFORMATION**

Contains label information including physical and health hazard warnings, handling and first aid instructions appropriate for the product.

ADDITIONAL COMMENTS

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of

APPENDIX B
ABOVEGROUND STORAGE TANK INSTALLATION PERMIT

Parcel No. _____
Photo Sheet _____
Plat Sheet _____
Sewer Sheet _____

RESIDENCE
Bldg. No. _____
30115

CITY OF TWO RIVERS

BUILDING

CONSTRUCTION — ALTERATION — MOVING

TO THE INSPECTOR OF BUILDINGS: Two Rivers, Wis. _____, 19____
The undersigned hereby applies for a permit to build, construct, remodel or install according to the following statement:
Owner of Land _____ Electric Company _____ Address _____
Lot _____ Block _____ Subdivision _____ Ward _____

Zoning District _____
Permit for _____ Install fuel tanks
Cost _____ Permit Fees _____ Paid by Receipt No. _____
General Contractor _____
Address _____
Size of Building — No. of feet wide _____ No. of feet length _____ Cubical Contents _____
No. of Stories in Height _____ Class of Construction _____
Foundation Materials _____ Footings _____
Will the roof be flat, peaked or mansard? _____ Roof Material _____

WORK CONSISTS OF

New Building _____ Wrecking _____ Addition _____
Alteration _____ Heating _____ Moving _____ Garage _____
Rear Yard _____ Total Side Yard _____ Min. S. Yd. _____ Set Back _____

REMARKS: _____

The applicant submits herewith a plot plan drawn to scale showing the actual dimensions of the lot to be built upon, size of the Building to be erected, and such further information as may be necessary in accordance with the Ordinances of said City of Two Rivers, Wisconsin.

It is Hereby Agreed between the undersigned as owner, his agent or servant, and the City of Two Rivers, that for and in consideration of the premises and of the permit to construct, erect, alter or install as above described, to be issued and granted by the Inspector of Buildings, that the work thereon will be done in accordance with the description herein set forth in this statement and as more fully described in the specifications and plans herewith filed, and it is further agreed to construct, erect, alter or install in strict compliance with the ordinances of the City of Two Rivers, the laws of the State of Wisconsin, the State Building Code and to obey any and all lawful orders of the Inspector of Buildings and the Fire Chief of the City of Two Rivers.

The undersigned hereby accepts full responsibility for ascertaining the existence and location of any easements, covenants, utility equipment or service lines, etc., that may be present on or affect the above described premises.

SPECIAL NOTES: _____ SIGNATURE _____
_____ ADDRESS _____
_____ PHONE NUMBER _____

Permission is Hereby granted for the above described work on condition that same be done in accordance with the application plan and specifications on file, and in compliance with the building code ordinance, the zoning ordinance and fire prevention code ordinance of the City of Two Rivers, and the State Building Code of Wisconsin, that the same be reported when ready for inspection as required.

Date _____, 19____ Signed _____, Building Inspector
Date _____, 19____ Signed _____, Fire Chief
Date _____, 19____ Signed _____, Police Chief

APPENDIX C
UNDERGROUND STORAGE TANK REMOVAL PERMIT

Parcel No. _____
Photo Sheet _____
Plat Sheet _____
Sewer Sheet _____

RESIDENCE
Bldg. No. _____
30414

CITY OF TWO RIVERS

BUILDING

CONSTRUCTION — ALTERATION — MOVING

TO THE INSPECTOR OF BUILDINGS:

Two Rivers, Wis., _____, 19__

The undersigned hereby applies for a permit to build, construct, remodel or install according to the following statement:

Owner of Land Baropa Electric Company Address 1400 Highway 104

Lot _____ Block _____ Subdivision _____ Ward _____

Zoning District I-1

Permit for Electric fuel tanks

Cost _____ Permit Fees 20.00 Paid by Receipt No. _____

General Contractor Baropa Electric Co.

Address 2400 N. River Road, Oak Creek, WI 53018

Size of Building — No. of feet wide _____ No. of feet length _____ Cubical Contents _____

No. of Stories in Height _____ Class of Construction _____

Foundation Materials _____ Footings _____

Will the roof be flat, peaked or mansard? _____ Roof Material _____

WORK CONSISTS OF

New Building _____ Wrecking _____ Addition _____

Alteration _____ Heating _____ Moving _____ Garage _____

Rear Yard _____ Total Side Yard _____ Min. S. Yd. _____ Set Back _____

REMARKS: _____

The applicant submits herewith a plot plan drawn to scale showing the actual dimensions of the lot to be built upon, size of the Building to be erected, and such further information as may be necessary in accordance with the Ordinances of said City of Two Rivers, Wisconsin.

It is Hereby Agreed between the undersigned as owner, his agent or servant, and the City of Two Rivers, that for and in consideration of the premises and of the permit to construct, erect, alter or install as above described, to be issued and granted by the Inspector of Buildings, that the work thereon will be done in accordance with the description herein set forth in this statement and as more fully described in the specifications and plans herewith filed, and it is further agreed to construct, erect, alter or install in strict compliance with the ordinances of the City of Two Rivers, the laws of the State of Wisconsin, the State Building Code and to obey any and all lawful orders of the Inspector of Buildings and the Fire Chief of the City of Two Rivers.

The undersigned hereby accepts full responsibility for ascertaining the existence and location of any easements, covenants, utility equipment or service lines, etc., that may be present on or affect the above described premises.

SPECIAL NOTES: _____

SIGNATURE _____

ADDRESS _____

PHONE NUMBER _____

Permission is Hereby granted for the above described work on condition that same be done in accordance with the application plan and specifications on file, and in compliance with the building code ordinance, the zoning ordinance and fire prevention code ordinance of the City of Two Rivers, and the State Building Code of Wisconsin, that the same be reported when ready for inspection as required.

Date _____, 19__ Signed _____, Building Inspector

Date _____, 19__ Signed _____, Fire Chief

Date _____, 19__ Signed _____, Police Chief

APPENDIX D
LABORATORY REPORTS - SOIL



ENVIRONMENTAL SERVICES

CHEM-NO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/17/90

LABORATORY REPORT

PAGE 1

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TEWOCR0024

PARAGON ELECTRIC
606 PARKWAY BLVD
TWO RIVERS ,WI 54241
ATTN: SKIP LUBENOW

SAMPLE 89362-P07791 SOIL /TWO RIVERS /TANK 1 /BASE EAST /78.8
DATE COLLECTED 12/28/89 DATE RECEIVED 12/28/89

TEST NAME	RESULT	UNITS	
TOTAL PETROLEUM HYDROCARBONS	180	PPM	!
	MINERAL SPIRITS. BASED ON SIMILARITIES TO MINERAL SPIRITS STANDARD.		
TRICHLOROFLUOROMETHANE	<0.010	PPM	!
ETHYL ETHER	<0.010	PPM	!
METHANOL	<0.010	PPM	!
1,1,2TRICHLORO-1,2,2TRIFLU	<0.010	PPM	!
ETHANOL	<0.010	PPM	!
ACETONE	0.12	PPM	!
METHYLENE CHLORIDE	<0.010	PPM	!
ISOPROPANOL	<0.010	PPM	!
CARBON TETRACHLORIDE	<0.010	PPM	!
ETHYL ACETATE	<0.010	PPM	!
METHYL ETHYL KETONE	<0.010	PPM	!
1,1,1-TRICHLOROETHANE	<0.010	PPM	!
BENZENE	<0.010	PPM	!
TRICHLOROETHYLENE	<0.010	PPM	!
ISOBUTANOL	<0.010	PPM	!
N-BUTANOL	<0.010	PPM	!
TOLUENE	0.23	PPM	!
2-ETHOXYETHANOL	<0.010	PPM	!
METHYL ISOBUTYL KETONE	<0.010	PPM	!
TETRACHLOROETHYLENE	<0.010	PPM	!
BUTYL ACETATE	<0.010	PPM	!
ETHYLBENZENE	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
XYLENES	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
STYRENE	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
2-ETHOXYETHYL ACETATE	<0.30	PPM	!

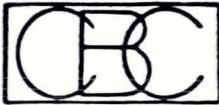
PLEASE CONTACT OUR CLIENT SERVICE DEPARTMENT WITH QUESTIONS. REMAINING WASTE SAMPLES WILL BE RETURNED 6 WEEKS FROM THE RECEIVING DATE OF SAMPLE. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT. WI DNR LAB CERTIFICATION #241283020/A.I.H.A. ACCREDITED.

! = REPRINT N/T = NOT TESTED N/A = NOT APPLICABLE APPROVAL *WRS*

FAX #414-764-0486

WI DNR LAB CERTIFICATION #241283020

1-800-365-3840



ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION

140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/17/90

LABORATORY REPORT

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TEWOCR0024

PARAGON ELECTRIC
606 PARKWAY BLVD
TWO RIVERS ,WI 54241
ATTN: SKIP LUBENOW

SAMPLE 89362-P07791 SOIL /TWO RIVERS /TANK 1 /BASE EAST /78.8
DATE COLLECTED 12/28/89 DATE RECEIVED 12/28/89

TEST NAME	RESULT	UNITS	
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
2-BUTOXYETHANOL	<0.010	PPM	!
CYCLOHEXANONE	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
CHLOROBENZENE	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
O-DICHLOROBENZENE	<0.010	PPM	!
CARBON DISULFIDE	<0.010	PPM	!
CHLOROFORM	<0.010	PPM	!

PLEASE CONTACT OUR CLIENT SERVICE DEPARTMENT WITH QUESTIONS. REMAINING WASTE SAMPLES WILL BE RETURNED 6 WEEKS FROM THE RECEIVING DATE OF SAMPLE. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT. WI DNR LAB CERTIFICATION #241283020/A.I.H.A. ACCREDITED.

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CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/17/90

LABORATORY REPORT

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PARAGON ELECTRIC
606 PARKWAY BLVD
TWO RIVERS ,WI 54241
ATTN: SKIP LUBENOW

SAMPLE 89362-P07792 SOIL /TWO RIVERS /TANK 1 /BASE WEST /148
DATE COLLECTED 12/28/89 DATE RECEIVED 12/28/89

TEST NAME	RESULT	UNITS	
TOTAL PETROLEUM HYDROCARBONS	79	PPM	!
	MINERAL SPIRITS. BASED ON SIMILARITIES TO MINERAL SPIRITS STANDARD.		
TRICHLOROFLUOROMETHANE	<0.010	PPM	!
ETHYL ETHER	<0.010	PPM	!
METHANOL	<0.010	PPM	!
1,1,2TRICHLORO-1,2,2TRIFLU	<0.010	PPM	!
ETHANOL	<0.010	PPM	!
ACETONE	0.21	PPM	!
METHYLENE CHLORIDE	<0.010	PPM	!
ISOPROPANOL	<0.010	PPM	!
CARBON TETRACHLORIDE	<0.010	PPM	!
ETHYL ACETATE	<0.010	PPM	!
METHYL ETHYL KETONE	0.57	PPM	!
1,1,1-TRICHLOROETHANE	<0.010	PPM	!
BENZENE	<0.010	PPM	!
TRICHLOROETHYLENE	<0.010	PPM	!
ISOBUTANOL	<0.010	PPM	!
N-BUTANOL	<0.010	PPM	!
TOLUENE	<0.010	PPM	!
2-ETHOXYETHANOL	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
METHYL ISOBUTYL KETONE	<0.010	PPM	!
TETRACHLOROETHYLENE	<0.010	PPM	!
BUTYL ACETATE	<0.010	PPM	!
ETHYLBENZENE	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
XYLENES	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
STYRENE	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		

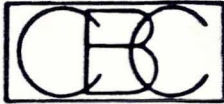
PLEASE CONTACT OUR CLIENT SERVICE DEPARTMENT WITH QUESTIONS. REMAINING WASTE SAMPLES WILL BE RETURNED 6 WEEKS FROM THE RECEIVING DATE OF SAMPLE. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT. WI DNR LAB CERTIFICATION #241283020/A.I.H.A. ACCREDITED.

! = REPRINT N/T = NOT TESTED N/A = NOT APPLICABLE APPROVAL WLS

FAX #414-764-0486

WI DNR LAB CERTIFICATION #241283020

1-800-365-3840



ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION

140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/17/90

LABORATORY REPORT

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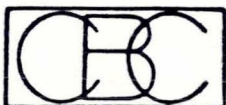
PARAGON ELECTRIC
606 PARKWAY BLVD
TWO RIVERS ,WI 54241
ATTN: SKIP LUBENOW

SAMPLE 89362-P07792 SOIL /TWO RIVERS /TANK 1 /BASE WEST /148
DATE COLLECTED 12/28/89 DATE RECEIVED 12/28/89

TEST NAME	RESULT	UNITS	
	CONCENTRATION.		
2-ETHOXYETHYL ACETATE	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
	AMENDED RESULT DUE TO REPORTING ERROR.		
2-BUTOXYETHANOL	<0.010	PPM	!
CYCLOHEXANONE	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
CHLOROBENZENE	<0.30	PPM	!
	HIGH DETECTION LIMITS DUE TO SAMPLE CONCENTRATION.		
O-DICHLOROBENZENE	0.15	PPM	!
CARBON DISULFIDE	<0.010	PPM	!
CHLOROFORM	<0.010	PPM	!

PLEASE CONTACT OUR CLIENT SERVICE DEPARTMENT WITH QUESTIONS. REMAINING WASTE SAMPLES WILL BE RETURNED 6 WEEKS FROM THE RECEIVING DATE OF SAMPLE. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT. WI DNR LAB CERTIFICATION #241283020/A.I.H.A. ACCREDITED.

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ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION

140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/11/90

LABORATORY REPORT

PAGE 1

PARAGON ELECTRIC
606 PARKWAY BLVD
TWO RIVERS ,WI 54241
ATTN: SKIP LUBENOW

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TEWOCR0024

SAMPLE 89362-P07794 SOIL /TWO RIVERS /TANK 2 /BASE WEST /231
DATE COLLECTED 12/28/89 DATE RECEIVED 12/28/89

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM
TRICHLOROFUOROMETHANE	<0.010	PPM
ETHYL ETHER	<0.010	PPM
METHANOL	<0.010	PPM
1,1,2TRICHLORO-1,2,2TRIFLU	<0.010	PPM
ETHANOL	<0.010	PPM
ACETONE	0.060	PPM
METHYLENE CHLORIDE	<0.010	PPM
ISOPROPANOL	<0.010	PPM
CARBON TETRACHLORIDE	<0.010	PPM
ETHYL ACETATE	<0.010	PPM
METHYL ETHYL KETONE	<0.010	PPM
1,1,1-TRICHLOROETHANE	<0.010	PPM
BENZENE	<0.010	PPM
TRICHLOROETHYLENE	0.24	PPM
ISOBUTANOL	<0.010	PPM
N-BUTANOL	<0.010	PPM
TOLUENE	<0.010	PPM
2-ETHOXYETHANOL	<0.010	PPM
METHYL ISOBUTYL KETONE	<0.010	PPM
TETRACHLOROETHYLENE	<0.010	PPM
BUTYL ACETATE	<0.010	PPM
ETHYLBENZENE	0.078	PPM
XYLENES	<0.010	PPM
STYRENE	<0.010	PPM
2-ETHOXYETHYL ACETATE	<0.010	PPM
2-BUTOXYETHANOL	<0.010	PPM
CYCLOHEXANONE	<0.010	PPM
CHLOROENZENE	<0.010	PPM
O-DICHLOROENZENE	<0.010	PPM
CARBON DISULFIDE	<0.010	PPM
CHLOROFORM	<0.010	PPM

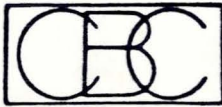
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! = REPRINT

N/T = NOT TESTED

N/A = NOT APPLICABLE

APPROVAL



ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION

140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/09/90

LABORATORY REPORT

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P380 8444289 W81
CM/* / / /
TEWOCR0024

PARAGON ELECTRIC
606 PARKWAY BLVD
TWO RIVERS ,WI 54241
ATTN: SKIP LUBENOW

SAMPLE 89362-P07793 SOIL /TWO RIVERS /TANK 2 /BASE EAST /334
DATE COLLECTED 12/28/89 DATE RECEIVED 12/28/89

TEST NAME	RESULT	UNITS	
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	!
TRICHLOROFUOROMETHANE	<0.010	PPM	!
ETHYL ETHER	<0.010	PPM	!
METHANOL	<0.010	PPM	!
1,1,2TRICHLORO-1,2,2TRIFLU	<0.010	PPM	!
ETHANOL	<0.010	PPM	!
ACETONE	0.32	PPM	!
METHYLENE CHLORIDE	<0.010	PPM	!
ISOPROPANOL	<0.010	PPM	!
CARBON TETRACHLORIDE	<0.010	PPM	!
ETHYL ACETATE	<0.010	PPM	!
METHYL ETHYL KETONE	0.82	PPM	!
1,1,1-TRICHLOROETHANE	<0.010	PPM	!
BENZENE	<0.010	PPM	!
TRICHLOROETHYLENE	<0.010	PPM	!
ISOBUTANOL	<0.010	PPM	!
N-BUTANOL	<0.010	PPM	!
TOLUENE	<0.010	PPM	!
2-ETHOXYETHANOL	<0.010	PPM	!
METHYL ISOBUTYL KETONE	<0.010	PPM	!
TETRACHLOROETHYLENE	<0.010	PPM	!
BUTYL ACETATE	<0.010	PPM	!
ETHYLBENZENE	<0.010	PPM	!
XYLENES	<0.010	PPM	!
STYRENE	<0.010	PPM	!
2-ETHOXYETHYL ACETATE	<0.010	PPM	!
2-BUTOXYETHANOL	<0.010	PPM	!
CYCLOHEXANONE	<0.010	PPM	!
CHLOROBENZENE	<0.010	PPM	!
O-DICHLOROBENZENE	<0.010	PPM	!
CARBON DISULFIDE	<0.010	PPM	!
CHLOROFORM	<0.010	PPM	!

PLEASE CONTACT OUR CLIENT SERVICE DEPARTMENT WITH QUESTIONS. REMAINING WASTE SAMPLES WILL BE RETURNED 6 WEEKS FROM THE RECEIVING DATE OF SAMPLE. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT. WI DNR LAB CERTIFICATION #241283020/A.I.H.A. ACCREDITED.

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ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/11/90

LABORATORY REPORT

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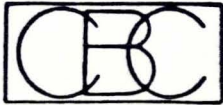
P380 8444289 W81
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TEWOCR0024

PARAGON ELECTRIC
606 PARKWAY BLVD
TWO RIVERS ,WI 54241
ATTN: SKIP LUBENOW

SAMPLE 89362-P07795 SOIL /TWO RIVERS /TANK 2 /SIDE SOUTH /762
DATE COLLECTED 12/28/89 DATE RECEIVED 12/28/89

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM
TRICHLOROFLUOROMETHANE	<0.010	PPM
ETHYL ETHER	<0.010	PPM
METHANOL	<0.010	PPM
1,1,2TRICHLORO-1,2,2TRIFLU	<0.010	PPM
ETHANOL	<0.010	PPM
ACETONE	0.16	PPM
METHYLENE CHLORIDE	<0.010	PPM
ISOPROPANOL	<0.010	PPM
CARBON TETRACHLORIDE	<0.010	PPM
ETHYL ACETATE	<0.010	PPM
METHYL ETHYL KETONE	<0.010	PPM
1,1,1-TRICHLOROETHANE	<0.010	PPM
BENZENE	<0.010	PPM
TRICHLOROETHYLENE	11	PPM
ISOBUTANOL	<0.010	PPM
N-BUTANOL	0.23	PPM
TOLUENE	<0.010	PPM
2-ETHOXYETHANOL	<0.010	PPM
METHYL ISOBUTYL KETONE	<0.010	PPM
TETRACHLOROETHYLENE	<0.010	PPM
BUTYL ACETATE	<0.010	PPM
ETHYLBENZENE	0.21	PPM
XYLENES	<0.010	PPM
STYRENE	0.13	PPM
2-ETHOXYETHYL ACETATE	<0.010	PPM
2-BUTOXYETHANOL	<0.010	PPM
CYCLOHEXANONE	0.30	PPM
CHLOROBENZENE	<0.010	PPM
O-DICHLOROBENZENE	<0.010	PPM
CARBON DISULFIDE	<0.010	PPM
CHLOROFORM	<0.010	PPM

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ENVIRONMENTAL SERVICES

CHEM-80 CORPORATION

140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/12/90

LABORATORY REPORT

PAGE 1

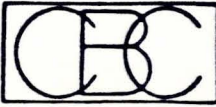
P380 8444289 W81
CM/* / / /
TEWOCR0024

PARAGON ELECTRIC
606 PARKWAY BLVD
TWO RIVERS ,WI 54241
ATTN: SKIP LUBENOW

SAMPLE 89362-P07796 SOIL /TWO RIVERS /TANK 2 /SIDE NORTH /961
DATE COLLECTED 12/28/89 DATE RECEIVED 12/28/89

TEST NAME	RESULT	UNITS	
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM	!
TRICHLOROFLUOROMETHANE	<0.010	PPM	
ETHYL ETHER	<0.010	PPM	
METHANOL	<0.010	PPM	
1,1,2TRICHLORO-1,2,2TRIFLU	<0.010	PPM	
ETHANOL	<0.010	PPM	
ACETONE	0.24	PPM	!
METHYLENE CHLORIDE	<0.010	PPM	
ISOPROPANOL	<0.010	PPM	
CARBON TETRACHLORIDE	<0.010	PPM	!
ETHYL ACETATE	<0.010	PPM	
METHYL ETHYL KETONE	<0.010	PPM	
1,1,1-TRICHLOROETHANE	0.31	PPM	
BENZENE	<0.010	PPM	!
TRICHLOROETHYLENE	85	PPM	
ISOBUTANOL	<0.010	PPM	
N-BUTANOL	0.32	PPM	!
TOLUENE	<0.010	PPM	
2-ETHOXYETHANOL	<0.010	PPM	
METHYL ISOBUTYL KETONE	<0.010	PPM	
TETRACHLOROETHYLENE	<0.010	PPM	
BUTYL ACETATE	<0.010	PPM	!
ETHYLBENZENE	<0.010	PPM	
XYLENES	<0.010	PPM	
STYRENE	<0.010	PPM	
2-ETHOXYETHYL ACETATE	<0.010	PPM	
2-BUTOXYETHANOL	<0.010	PPM	!
CYCLOHEXANONE	<0.010	PPM	!
CHLOROBENZENE	<0.010	PPM	!
O-DICHLOROBENZENE	<0.010	PPM	!
CARBON DISULFIDE	<0.010	PPM	!
CHLOROFORM	<0.010	PPM	!

PLEASE CONTACT OUR CLIENT SERVICE DEPARTMENT WITH QUESTIONS. REMAINING WASTE SAMPLES WILL BE RETURNED 6 WEEKS FROM THE RECEIVING DATE OF SAMPLE. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT. WI DNR LAB CERTIFICATION #241283020/A.I.H.A. ACCREDITED.
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ENVIRONMENTAL SERVICES

CHEM-SO CORPORATION

140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/12/90

LABORATORY REPORT

PAGE 1

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PARAGON ELECTRIC
606 PARKWAY BLVD
TWO RIVERS ,WI 54241
ATTN: SKIP LUBENOW

SAMPLE 90002-P07792 SOIL/TWO RIVERS/TEWOCR-0024/TANK 3/SIDE NORTH/97.9
DATE COLLECTED 12/29/89 DATE RECEIVED 01/02/90

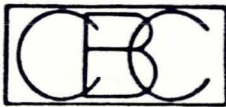
TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM
TRICHLOROFLUOROMETHANE	<0.010	PPM
ETHYL ETHER	<0.010	PPM
METHANOL	<0.010	PPM
1,1,2TRICHLORO-1,2,2TRIFLU	<0.010	PPM
ETHANOL	<0.010	PPM
ACETONE	<0.010	PPM
METHYLENE CHLORIDE	<0.010	PPM
ISOPROPANOL	<0.010	PPM
CARBON TETRACHLORIDE	<0.010	PPM
ETHYL ACETATE	<0.010	PPM
METHYL ETHYL KETONE	<0.010	PPM
1,1,1-TRICHLOROETHANE	<0.010	PPM
BENZENE	<0.010	PPM
TRICHLOROETHYLENE	<0.010	PPM
ISOBUTANOL	<0.010	PPM
N-BUTANOL	<0.010	PPM
TOLUENE	<0.010	PPM
2-ETHOXYETHANOL	<0.010	PPM
METHYL ISOBUTYL KETONE	<0.010	PPM
TETRACHLOROETHYLENE	<0.010	PPM
BUTYL ACETATE	<0.010	PPM
ETHYLBENZENE	<0.010	PPM
XYLENES	<0.010	PPM
STYRENE	<0.010	PPM
2-ETHOXYETHYL ACETATE	<0.010	PPM
2-BUTOXYETHANOL	<0.010	PPM
CYCLOHEXANONE	<0.010	PPM
CHLOROBENZENE	<0.010	PPM
O-DICHLOROBENZENE	<0.010	PPM
CARBON DISULFIDE	<0.010	PPM
CHLOROFORM	<0.010	PPM

PLEASE CONTACT OUR CLIENT SERVICE DEPARTMENT WITH QUESTIONS. REMAINING WASTE SAMPLES WILL BE RETURNED 6 WEEKS FROM THE RECEIVING DATE OF SAMPLE. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT. WI DNR LAB CERTIFICATION #241283020/A.I.H.A. ACCREDITED.

N/T = NOT TESTED

N/A = NOT APPLICABLE

APPROVAL WLS



ENVIRONMENTAL SERVICES

CHEM-BIO CORPORATION

140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/17/90

LABORATORY REPORT

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PARAGON ELECTRIC
606 PARKWAY BLVD
TWO RIVERS ,WI 54241
ATTN: SKIP LUBENOW

SAMPLE 90002-P07791 SOIL/TWO RIVERS/TEWOCR-0024/TANK 3/SIDE WEST/26.4
DATE COLLECTED 12/29/89 DATE RECEIVED 01/02/90

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	8.3	PPM
MINERAL SPIRITS, BASED ON SIMILARITIES TO MINERAL SPIRITS STANDARDS.		
TRICHLOROFUOROMETHANE	<0.010	PPM
ETHYL ETHER	<0.010	PPM
METHANOL	<0.010	PPM
1,1,2TRICHLORO-1,2,2TRIFLU	<0.010	PPM
ETHANOL	<0.010	PPM
ACETONE	<0.010	PPM
METHYLENE CHLORIDE	<0.010	PPM
ISOPROPANOL	<0.010	PPM
CARBON TETRACHLORIDE	<0.010	PPM
ETHYL ACETATE	<0.010	PPM
METHYL ETHYL KETONE	<0.010	PPM
1,1,1-TRICHLOROETHANE	<0.010	PPM
BENZENE	<0.010	PPM
TRICHLOROETHYLENE	<0.010	PPM
ISOBUTANOL	<0.010	PPM
N-BUTANOL	<0.010	PPM
TOLUENE	<0.010	PPM
2-ETHOXYETHANOL	<0.010	PPM
METHYL ISOBUTYL KETONE	<0.010	PPM
TETRACHLOROETHYLENE	<0.010	PPM
BUTYL ACETATE	<0.010	PPM
ETHYLBENZENE	<0.010	PPM
XYLENES	<0.010	PPM
STYRENE	<0.010	PPM
2-ETHOXYETHYL ACETATE	<0.010	PPM
2-BUTOXYETHANOL	<0.010	PPM
CYCLOHEXANONE	<0.010	PPM
CHLOROBENZENE	<0.010	PPM
O-DICHLOROBENZENE	<0.010	PPM
CARBON DISULFIDE	<0.010	PPM
CHLOROFORM	<0.010	PPM

PLEASE CONTACT OUR CLIENT SERVICE DEPARTMENT WITH QUESTIONS. REMAINING WASTE SAMPLES WILL BE RETURNED 6 WEEKS FROM THE RECEIVING DATE OF SAMPLE. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT. WI DNR LAB CERTIFICATION #241283020/A.I.H.A. ACCREDITED.

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FAX #414-764-0486

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N/A = NOT APPLICABLE
WI DNR LAB CERTIFICATION #241283020

APPROVAL *WLS*
1-800-365-3840

Laboratory Services

Remedial Services

Industrial Hygiene

Transportation



**ENVIRONMENTAL
SERVICES**

140 East Ryan Road • Oak Creek, WI 53154-4599
(414) 764-7005 • FAX (414) 764-0486

1811 Diehl Road, Suite 600 • Naperville, IL 60540
(312) 983-4000 • FAX (312) 983-1747