



ENVIRONMENTAL & REGULATORY SERVICES
BUREAU OF PECFA
2129 Jackson Street
Oshkosh, Wisconsin 54901-1805
TDD #: (608) 264-8777
Fax #: (920) 424-0217
<http://www.commerce.state.wi.us>
<http://www.wisconsin.gov>
Scott McCallum, Governor
Philip Edw. Albert, Secretary

April 23, 2002

Mr. Douglas Deaton
Mirro Company
PO Box 1330
Manitowoc, WI 54220

RE: **Final Closure**

Commerce # 54220-6744-01 **WDNR BRRTS # 03-36-280532**
Mirro Company Plant #2, 2401 Mirro Drive, Manitowoc

Two 20,000-gallon fuel oil USTs

Dear Mr. Deaton:

This letter acknowledges receipt of the information requested in the Wisconsin Department of Commerce's (Commerce) PECFA Site Review Section February 25, 2002 conditional closure letter. On April 23, 2002, Commerce received the monitoring well abandonment forms for the sump.

This site is now listed as "closed" on the Commerce database. It is in your best interest to keep all documentation related to the investigation and remediation of your site.

If future site conditions indicate that any remaining contamination poses a threat, and subsequent information indicates a need to reopen this case, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility. If contamination is encountered, appropriate measures must be implemented to assure any residual contamination is managed following all applicable State of Wisconsin regulations and standards.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (920) 424-0046.

Sincerely,

Robert H. Klauk, PG
Hydrogeologist
Site Review Section

cc: Lynelle Caine – Northern Environmental
Case File

LETTER OF TRANSMITTAL

Northern EnvironmentalSM
Hydrologists • Engineers • Geologists

954 Circle Drive
Green Bay, Wisconsin 54304

414-592-8400
1-800-854-0606
Fax 414-592-8444

DATE <u>4/22/02</u>	PROJECT NO. <u>ESPO3-2200-1267</u>
ATTENTION <u>Bob Klauk</u>	
RE <u>Mirro Plant #02, Manitowoc, WI</u>	
<u>BRR # 03-36-280532</u>	
<u>Commerce # 54220-6744-02</u>	
<u>Sump Abandonment Form</u>	

TO: WI Dept. of Commerce
2129 Jackson Street
Oshkosh, WI 54901

WE ARE SENDING YOU

- Attached
- Under separate cover
- Shop Drawings
- Specifications
- Plans
- Copy of letter
- Samples
- Change order
- _____

COPIES	DESCRIPTION	RECEIVED
1	<u>Sump Abandonment Form</u>	APR 23 2002 ERS DIVISION OSHKOSH

THESE ARE TRANSMITTED (see code)

- A. For Approval
- F. No Exceptions Taken
- J. Resubmit _____ Copies for Review
- B. For Your Use
- G. Make Noted Corrections
- K. Submit _____ Copies for Distribution
- C. As Requested
- H. Amend & Resubmit
- L. Return _____ Corrected Prints
- D. For Review and Comment
- I. _____
- M. Review and Sign _____
- E. For Bids Due _____ 19 ____

REMARKS: Enclosed please find a copy of the abandonment form for the sump at Mirro Plant #02. Upon receipt of this documentation the requirements of the conditional closure letter dated Feb 25, 2002 should be met & final closure granted. If you have any question or need additional information, please call.

COPY TO: Doug Deaton, Mirro Co.

SIGNED: Shankhan, [Signature]

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

(1) GENERAL INFORMATION			(2) FACILITY/OWNER INFORMATION		
WI Unique Well No.	DNR Well ID No.	County	Facility Name		
		Manitowoc	Mirro Plant #2		
Common Well Name		Gov't Lot (If applicable)	Facility ID	License/Permit/Monitoring No.	
Sump					
Grid Location			Street Address of Well		
NW 1/4 of SE 1/4 of Sec. 9 ; T. 19 N; R. 24 E			2401 Mirro Drive		
Local Grid Origin			City, Village, or Town		
(estimated:) or Well Location			Manitowoc		
Lat. Long. or			Present Well Owner		
St. Plane ft. N. ft. E. Zone			Mirro Company		
Reason For Abandonment			Original Owner		
Site Closure			1512 Washington Street		
WI Unique Well No. of Replacement Well			City, State, Zip Code		
			Manitowoc, WI 54221		

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date	Monitoring Well	Pump & Piping Removed?	
8-14-01	<input type="checkbox"/> Water Well	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
	<input type="checkbox"/> Borehole / Drillhole	Liner(s) Removed?	
	Construction Type:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
	<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input checked="" type="checkbox"/> Dug	Screen Removed?	
	Formation Type:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable	
	Unconsolidated Formation <input type="checkbox"/> Bedrock	Casing Left in Place?	
	Total Well Depth (ft.) 11.5 Casing Diameter (in.) 6.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	(From ground surface) Casing Depth (ft.)	Was Casing Cut Off Below Surface?	
	Lower Drillhole Diameter (in.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Did Sealing Material Rise to Surface?	
	If Yes, To What Depth? Feet	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Depth to Water (Feet) 2	Did Material Settle After 24 Hours?	
		If Yes, Was Hole Retopped?	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		Required Method of Placing Sealing Material	
		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
		Sealing Materials	
		<input type="checkbox"/> Neat Cement Grout	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
		<input type="checkbox"/> Concrete	
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Bentonite Chips	
		For monitoring wells and monitoring well boreholes only	
		<input checked="" type="checkbox"/> Bentonite Chips	
		<input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Bentonite - Sand Slurry	

(5)	Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, (Sacks) Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
	Bentonite	Surface	11.5	3 1/2		

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
Northern Environmental		4-19-02	
Signature of Person Doing Work		Date Signed	
[Signature]		4-19-02	
Street or Route		Telephone Number	
954 Circle Drive		(920) 592-8400	
City, State, Zip Code			
Green Bay, WI 54304			

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	



February 25, 2002

Mr. Douglas Deaton
Mirro Company
PO Box 1330
Manitowoc, WI 54220

RE: **Conditional Case Closure**

Commerce # 54220-6744-01 WDNR BRRTS # 03-36-280532
Mirro Company Plant #2, 2401 Mirro Drive, Manitowoc

Two 20,000-gallon fuel oil USTs

Dear Mr. Deaton:

On January 30, 2002, the Wisconsin Department of Commerce (Commerce) PECFA Site Review Section received a request for case closure, dated January, from Northern Environmental. It is understood that residual soil and/or groundwater contamination remains on-site. Using the standards established in the NR 700 series, Wisconsin Administrative Code (Wis. Adm. Code), Commerce has determined that this site does not pose a significant threat to the environment and human health. No further investigation or remedial action is necessary. In making this determination, the following documents prepared by Northern Environmental, as well as correspondence in the case file, were reviewed:

- *Disposal of Stockpiles of Soil* – January 8, 2002
- *Status Update and Request for Case Closure* – January 25, 2002

The following condition must be satisfied to obtain final closure:

- Documentation of the abandonment of the sump (WDNR Abandonment Form 3300-5B).

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (920) 424-0046.

Sincerely,

Robert H. Klauk, PG
Hydrogeologist
Site Review Section

cc: Lynelle Caine – Northern Environmental
Case File



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor
Darrell Bazzell, Secretary
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TTY 920-492-5912

January 28, 2002

Mr. Douglas Deaton
Mirro Co
P.O. Box 1330
Manitowoc, WI 54220

RECEIVED

JAN 30 2002

ERS DIVISION
OSHKOSH

SUBJECT: Transfer of Project Management to Department of Commerce
MIRRO CO; 2401 MIRRO DR;
MANITOWOC, WI;
WDNR BRRTS ID # 03-36-280532

Dear Mr. Deaton:

The State of Wisconsin divides the jurisdiction for sites contaminated by petroleum storage tank systems between the DNR and the Department of Commerce (Commerce), based on statutory definitions of high, medium and low risk sites. Under this statute, oversight of sites falling under the definition of "low or medium risk" is the responsibility of Commerce rather than the Wisconsin DNR.

Per the Tank Closure/Site Assessment Report submitted on January 23, 2002 by Susan Knabe of Northern Environmental Technologies, Inc., this site falls under the definition of "low or medium risk". As such, staff at Commerce will provide further reviews of submittals and all technical assistance related to this case. Accordingly, DNR will transfer the above referenced file to Commerce at the following address:

ATTN: Bob Klauk
Wisconsin Department of Commerce
2129 Jackson St.
Oshkosh, WI 54901-1805
(920) 424-0046 FAX: (920) 424-0217

If you have questions or concerns regarding this site, or would like to review any of the pertinent file documents, please direct them to the Commerce contact listed above.

Sincerely,

Veronica Lorenz
Program Assistant
Bureau for Remediation and Redevelopment

cc: Bob Klauk, WI Dept. of Commerce, 2129 Jackson Street, Oshkosh, WI 54901-1805
Susan Knabe, Northern Environmental Technologies, Inc., 954 Circle Drive, Green Bay, WI 54304



January 25, 2002
(ESP03-2200-1267)

Mr. Keld Lauridsen
Wisconsin Department of Natural Resources
P O Box 10448
Green Bay WI 54307-0448

RECEIVED
JAN 30 2002

Re: Status Update and Recommendation for Site Transfer to WDCOMM,
Mirro Company Plant #02, 2401 Mirro Drive, Manitowoc, Wisconsin;
WDNR LUST ID #03-36-280532

ERS DIVISION
OSHKOSH

Dear Mr. Lauridsen:

Northern Environmental Technologies, Incorporated has completed a status update and request for case closure for a petroleum release at Mirro Company Plant #02, 2401 Mirro Drive, Manitowoc, Wisconsin (the Site). Currently, the Site is under the jurisdiction of the Wisconsin Department of Natural Resources (WDNR).

The WDNR has jurisdiction over sites that may be classified as high-risk and the Wisconsin Department of Commerce (WDCOMM) has jurisdiction over sites that may be classified as medium or low risk sites. Based on data collected at the Site, we believe the Site meets the classification of a medium risk site, and as a result, the site falls under the administrative authority of the WDCOMM. **By copy of this letter, it is requested this Site be transferred from the WDNR to the WDCOMM to be reviewed for case closure.**

If you have any questions regarding this submittal, please contact us at 920-592-8400.

Sincerely,
**Northern Environmental
Technologies, Incorporated**

Susan Knabe

Susan T. Knabe
Hydrogeologist

Lynelle P. Caine
Project Manager

STK/hmo

c: Mr. Robert Klauk, WDCOMM
Mr. Douglas Deaton, Mirro Company



RECEIVED
JAN 28 2002

ESP DIVISION
OSHKOSH

January 25, 2002
(ESP03-2200-1267)

954 Circle Drive
Green Bay, WI 54304
920-592-8400
1-800-854-0606
Fax • 920-592-8444
E-mail • netigb@admin.itol.com

Mr. Robert Klauk
Wisconsin Department of Commerce
2129 Jackson Street
Oshkosh, Wisconsin 54901-1805

RE: Status Update and Request for Case Closure, Mirro Company Plant #02, 2401 Mirro Drive,
Manitowoc, Wisconsin; WDNR LUST ID #03-36-280532

Dear Mr. Klauk:

Northern Environmental Technologies, Incorporated (Northern Environmental) has completed a status update in association with a petroleum release at Mirro Company Plant #02, 2401 Mirro Drive, Manitowoc, Wisconsin (the Site). The Site is located in the northeast quarter of the southeast quarter of Section 9, Township 19 North, Range 24 East (44 degrees, 7 minutes, 24 seconds north latitude and 87 degrees, 37 minutes, 19 seconds west longitude) in the city of Manitowoc, Manitowoc County, Wisconsin. The Site location is shown in Figure 1. This letter summarizes the investigative and remedial activities and requests case closure.

BACKGROUND INFORMATION

The Site has been the location of Mirro Company Plant #02, a plastics manufacturing company. Mirro Company was recently purchased by Newell Rubbermaid. Two 20,000-gallon fuel oil underground storage tanks (USTs) were located at the Site and were used to store fuel oil for the backup generator at the Site. On August 14, 2001, Northern Environmental documented the removal of the two USTs. Petroleum odors and elevated field screening results were observed in the soil beneath the USTs. One soil sample (S13) was submitted for laboratory analysis for diesel range organics (DRO), petroleum volatile organic compounds (PVOCs), and polynuclear aromatic hydrocarbons (PAHs) to confirm the release. The results of laboratory analysis detected DRO concentrations of 120 milligrams per kilogram (mg/kg). Several PVOCs and PAHs were also detected in the sample. The site layout and former UST locations are shown in Figure 2.

Based on the UST closure assessment results, a release was reported to the Wisconsin Department of Natural Resources (WDNR) on August 20, 2001. Subsequently, the WDNR assigned a Bureau of Remediation and Redevelopment Tracking System (BRRTS) number of 03-36-280532 and issued a release notification letter and required that an investigation be performed to further define the extent of the release and that appropriate remedial activities be initiated to remediate the Site. Following the UST removal, an excavation was completed in the vicinity of the former USTs. The goal of the excavation was to collect soil samples to define the extent of petroleum-impacted soil and to remove potentially impacted soil from the area surrounding the USTs. Approximately 4,700 gallons of groundwater were also pumped from the excavation to facilitate backfilling. The water was hauled to Heart of the Valley Metro Sewage District in Kaukauna, Wisconsin for treatment and disposal.

CASE SUMMARY

Soil

On August 14, 2001, Northern Environmental personnel oversaw the excavation of approximately 100 cubic yards of impacted soil by Gene Frederickson Trucking, Inc. The soil was temporarily stockpiled on-site, placed on, and covered with plastic. The lateral and vertical extent of the excavation was guided by field screening results. The excavation extended to a maximum depth of 17 feet below grade (fbg). Saturated soil was observed in the excavation between 7 and 9 fbg. The excavated area was subsequently backfilled with clean fill. The lateral extent of the excavation is shown in Figure 3.

During completion of the excavation, Northern Environmental personnel collected, described, and field-screened 22 soil samples (S1 through S19 and S24 through S26) from the excavated soil and excavation sidewalls to evaluate the vertical and lateral extent of the petroleum-impacted soil. In addition, four soil samples (S20 through S23) were collected beneath the former piping run to document the presence or absence of petroleum compounds. The samples were field-screened with a photoionization detector (PID). Sixteen soil samples were submitted to U.S. Analytical Laboratory in Kimberly, Wisconsin to be analyzed for a combination of DRO and PVOCs. Soil samples S10, S13, and S25 were also submitted for analysis of PAHs. Soil sample locations are shown in Figure 3. Soil field screening results are summarized in Table 1. Soil analytical results are listed in Table 2. Copies of soil analytical reports are included in Attachment A.

Six soil samples (S8, S10, S15, S19, S25, and S26) were collected from the excavation sidewalls above the apparent water table. None of these samples contained concentrations of DRO, PVOCs, or PAHs above laboratory detection limits. In addition, the 4 soil samples collected beneath the former piping run did not detect concentrations of DRO in excess of detection limits.

Five soil samples (S1, S5, S12, S14, and S24) were collected below the apparent water table from the sidewalls and base of the excavation and submitted for laboratory analysis of DRO and PVOCs. Results of these samples are more representative of ground-water conditions at the Site and therefore generic residual contaminant levels (RCLs) do not apply. Results of sample S1, collected below UST1, detected low level concentrations of benzene, and sample S14, collected below UST2, detected low level concentrations of ethylbenzene and 1,2,4-trimethylbenzene. Samples S5 and S24, collected from the base of the excavation, and S12, collected from beneath UST2, did not detect concentrations of DRO or PVOCs in excess of laboratory detection limits.

Soil sample S13 exhibited the highest PID reading of the samples collected during the excavation. Laboratory results of this sample detected concentrations of DRO, trimethylbenzenes, and several PAHs. Based on results of previous investigations completed at Mirro Plant #02, the native soil consists predominantly of silty clay and is considered a less permeable soil. Under Section NR 720, Wisconsin Administrative Code (Wis. Adm. Code), generic RCLs for less permeable soil have been established for DRO at 250 mg/kg. Based on this standard, the DRO concentration detected in S13 (120 mg/kg) was below the generic RCL. The concentrations of trimethylbenzenes and PAHs detected in S13 were compared to the Table 1 and 2 values established in NR 746, Wis. Adm. Code and the levels listed in the WDNR Interim Guidance for Soil Cleanup Levels for PAHs. None of the petroleum constituents detected in S13 were above these values.

On November 28, 2001, a second sample was collected from the stockpiled soil to confirm the laboratory results. Soil sample SP1 was collected and submitted for laboratory analysis of DRO and PVOCs. DRO and PVOCs were not detected above laboratory detection limits in SP1. Based on the laboratory results of the stockpiled soil, Northern Environmental requested permission from the WDNR to thinspread the soil on site on January 8, 2002. Approval to thinspread the soil on-site was granted on January 23, 2002. Given that all petroleum concentrations detected in the excavated soil are below generic RCLs and Table 1 and 2 values, additional soil sampling of the thinspread soil should not be necessary. A copy of the WDNR letter granting permission to thinspread the soil is included in Attachment B.

Ground water

Prior to backfilling, a sump was installed in the excavation near the former UST locations. The sump was developed and sampled on November 28, 2001. The ground-water sample was submitted to CT Laboratories for PVOC and PAH analysis. Several PVOCs and PAHs were detected in this sample but none in excess of the ES or PAL. Ground-water analytical results are listed in Table 3. Copies of the laboratory reports are included in Attachment C. Documentation of ground-water disposal is included in Attachment D.

RECOMMENDATIONS AND CONCLUSIONS

Results of the excavation indicate that the majority of the petroleum impacted soil was removed during the excavation. Low levels of DRO, PVOCs, and PAHs were detected the excavated soil stockpiled on site; however, the petroleum concentrations detected were below the generic RCLs and WDNR Interim Guidance Soil Cleanup Levels for PAHs for exposure via direct contact. None of the sidewall samples contained petroleum compounds in excess of generic RCLs. Saturated soil samples collected from the bottom of the excavation also indicated the majority of petroleum-impacted soil was removed. Based on the results of the ground-water sampling, it appears that remaining petroleum contamination is not impacting ground-water quality. As a result, we believe the Site meets the requirements to be reviewed for case closure. On behalf of Mirro Company, Northern Environmental recommends that no further action be required in association with the fuel oil release at the Site.

The results of this study are based on professional interpretation of the information available to Northern Environmental. Northern Environmental does not warrant that this report represents an exhaustive study of all possible environmental concerns associated with the Site. However, the items addressed as part of this study do represent the most likely sources of environmental concerns associated with the fuel oil release and are, consequently, believed to adequately address the clients needs at this time.

If you have any questions or require additional information, please contact us at 920-592-8400.

Sincerely,
**Northern Environmental
Technologies, Incorporated**

Susan Knabe

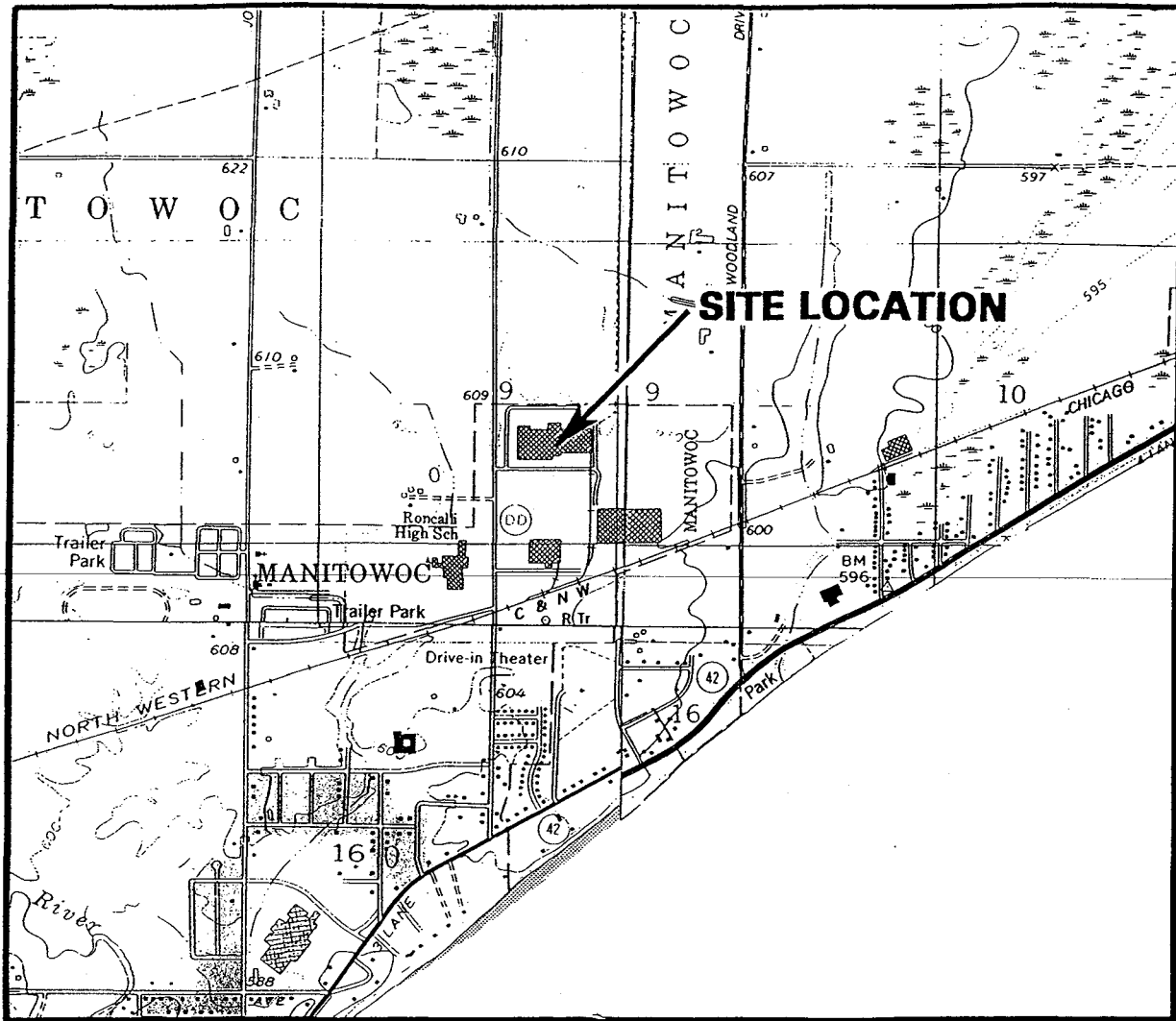
Susan T. Knabe
Hydrogeologist



Lynelle P. Caine
Project Manager

STK/hmo
Attachments

c: Mr. Douglas Deaton, Mirro Company



SCALE IN FEET

1" = 2000'




CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION

BASE MAP SOURCE: USGS MISHICOT, AND TWO RIVERS, WISCONSIN 7.5 MINUTE QUADRANGLE (REVISED 1978)
BASE MAP SOURCE: USGS MANITOWOC, WISCONSIN 7.5 MINUTE QUADRANGLE (REVISED 1973)

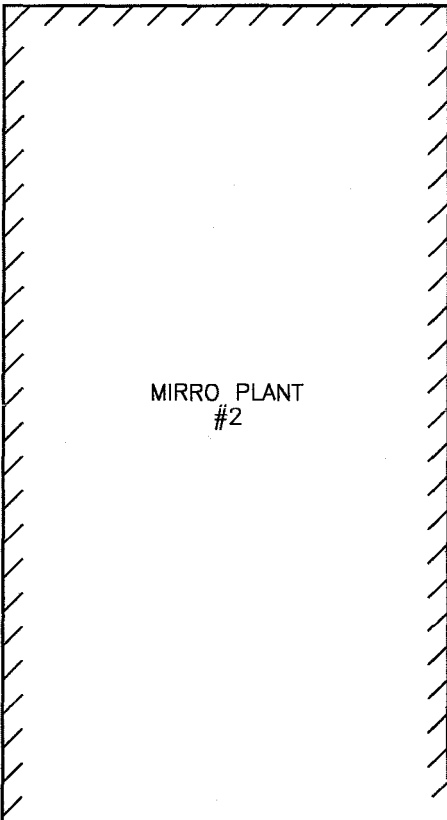
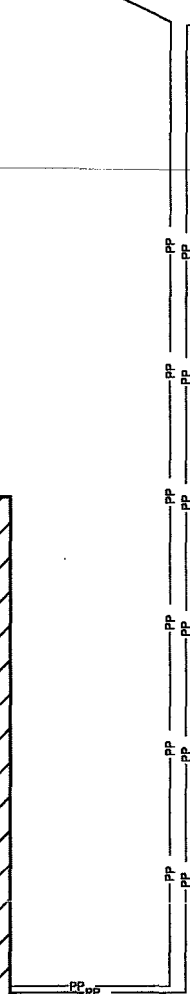
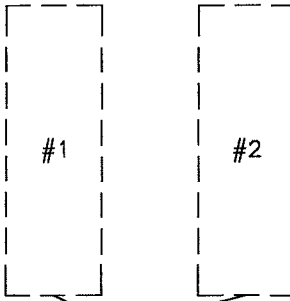


DRAWN BY: JJK	PROJECT: MIR-0919	DATE: 8/11/99
REV. DATE	THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED.	
 Northern Environmental SM Hydrologists • Engineers • Geologists		

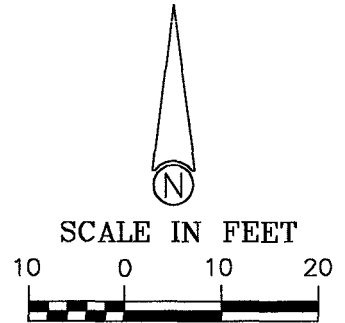
MIRO PLANT #2
MANITOWOC, WISCONSIN

SITE LOCATION AND
LOCAL TOPOGRAPHY

ACCESS ROAD



LEGEND
 — PP — PRODUCT LINE
 [#] EXISTING UST LOCATION



S:\PROJ\ESP\22001267\DRAWINGS\092501-2.DWG

DRAWN BY: JRB PROJECT: ESP-1267 DATE: 09/25/01

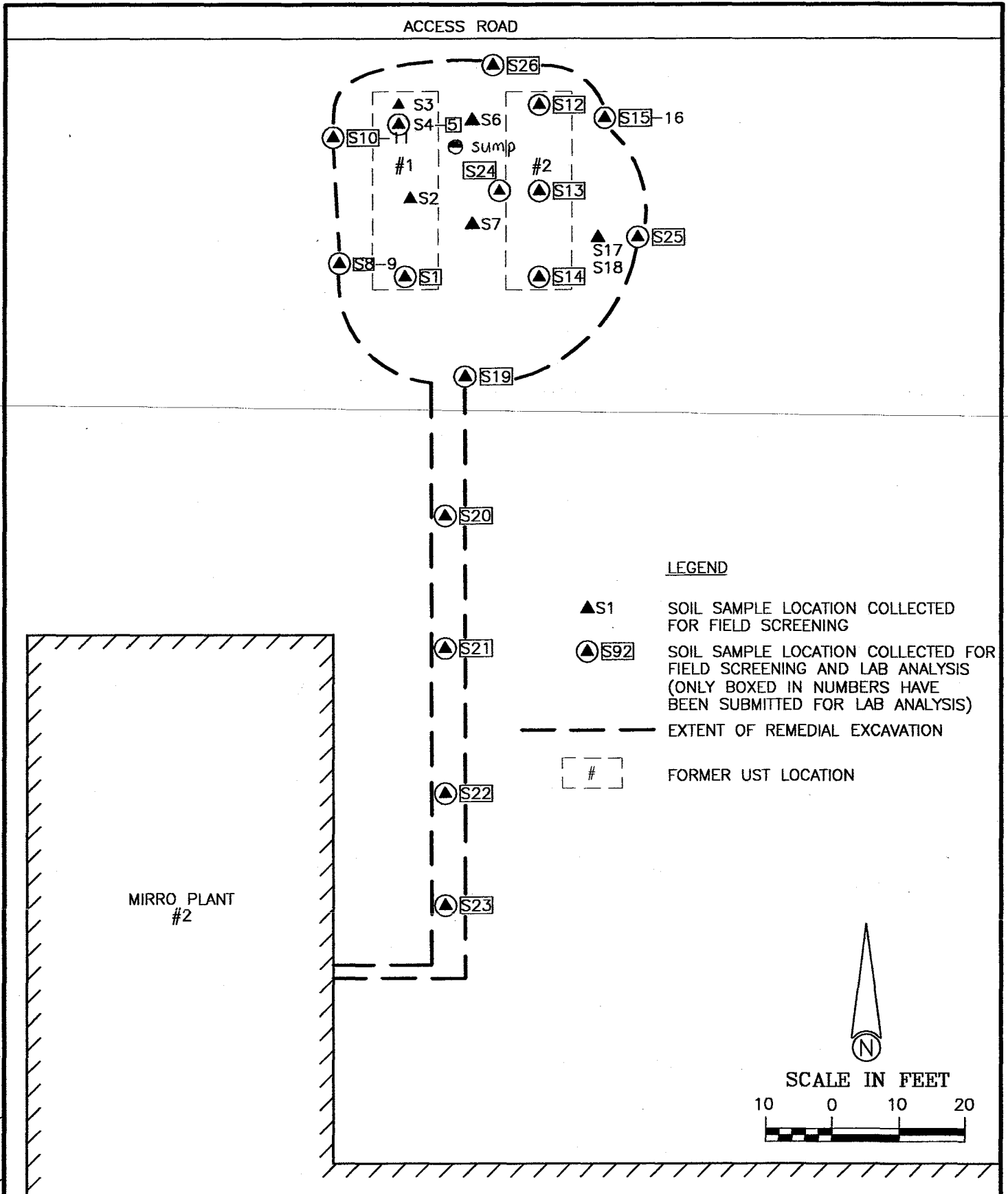
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MIRRO COMPANY
MANITOWOC, WISCONSIN

SITE LAYOUT

FIGURE 2



S:\PROJ\ESP\22001267\DRAWINGS\092501-2.DWG

DRAWN BY: JRB | PROJECT: ESP-1267 | DATE: 09/25/01

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Northern EnvironmentalSM
Hydrologists • Engineers • Geologists

MIRRO COMPANY
MANITOWOC, WISCONSIN

EXTENT OF EXCAVATION
WITH SOIL SAMPLE LOCATIONS

FIGURE 3

Table 1 Soil Field Screening Results, Mirro Plant #02, Manitowoc, Wisconsin

Sample Label	Depth (feet)	Sample Petroleum Odor	Sample Description	Sample Location	Date Collected	PID Headspace Analysis		
						Time Collected	Time Analyzed	PID Response (iui)
S1 *	11	None	Silty sand, wet	South end of UST1	8/14/01	910	924	0
S2	11	Slight	Silty sand, wet	Middle end of UST1	8/14/01	912	925	10
S3	11	Strong	Silty sand, wet	North end of UST1	8/14/01	913	925	28
S4	14	None	Silty sand, wet	North end of UST1	8/14/01	942	1000	0
S5 *	17	None	Silty sand, wet	Bottom	8/14/01	943	1001	0
S6	---	None	Silty sand, wet	Soil stockpile	8/14/01	940	1001	1
S7	---	None	Silty sand, wet	Soil stockpile	8/14/01	941	1002	1
S8*	4	None	Clay	Southwest sidewall	8/14/01	944	1002	0
S9	8	None	Clay, moist	Southwest sidewall	8/14/01	945	1003	0
S10 *	4	None	Clay	Northwest sidewall	8/14/01	946	1003	0
S11	8	None	Clay, moist	Northwest sidewall	8/14/01	947	1003	0
S12 *	12	None	Silty sand, wet	North end of UST2	8/14/01	1213	1231	0
S13 *	5	Strong	Silty sand, wet	Middle of UST2	8/14/01	1214	1231	71
S14 *	12	Slight	Silty sand, wet	South end of UST2	8/14/01	1215	1232	7
S15 *	4	Slight	Clay, moist	Northeast sidewall	8/14/01	1216	1232	5
S16	8	Slight	Clay, moist	Northeast sidewall	8/14/01	1217	1233	4
S17	4	Slight	Clay, moist	Southeast	8/14/01	1218	1233	12
S18	8	Slight	Clay, moist	Southeast	8/14/01	1219	1234	5
S19 *	5	None	Clay, moist	South sidewall	8/14/01	1220	1234	2
S20 *	4	None	Clay, moist	Piping run	8/14/01	1405	1425	0
S21 *	4	None	Clay, moist	Piping run	8/14/01	1406	1425	0
S22 *	4	None	Clay, moist	Piping run	8/14/01	1450	1505	0
S23 *	4	None	Clay, moist	Piping run	8/14/01	1451	1505	0
S24 *	16	None	Silty sand, wet	Bottom	8/14/01	1527	1538	0
S25 *	5	None	Clay, moist	Southeast sidewall	8/14/01	1540	1554	0
S26 *	8	None	Clay, moist	North sidewall	8/14/01	1604	1615	2

Key:
 PID = Photoionization Detector
 iui = instrument units as isobutylene
 * = Submitted for laboratory analysis
 --- = Depth not available

Table 2 Soil Analytical Results, Mirro Plant #02, Manitowoc, Wisconsin

Sample Number	Sample Depth (feet)	PID Response (iui)	Date Sampled	DRO (mg/kg)	Relevant and Significant Analytical Results (µg/kg)													
					Benzene	Ethylbenzene	MTBE	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes	Anthracene	Fluoranthene	Fluorene	1-Methyl Naphthalene	2-Methyl Naphthalene	Phenanthrene	Pyrene
WAC Residual Contaminant Level				250	5.5	2900	NE	1500	NE	NE	4100	NE	NE	NE	NE	NE	NE	NE
S1 *	11	0	08/14/01	<10	60	<25	<25	<25	<25	<25	<75	--	--	--	--	--	--	--
S5 *	17	0	08/14/01	<10	<25	<25	<25	<25	<25	<25	<75	--	--	--	--	--	--	--
S8	4	0	08/14/01	<10	<25	<25	<25	<25	<25	<25	<75	--	--	--	--	--	--	--
S10	4	0	08/14/01	<10	<25	<25	<25	<25	<25	<25	<75	<11	<10	<11	<10	<17	<12	<13
S12 *	12	0	08/14/01	<10	<25	<25	<25	<25	<25	<25	<75	--	--	--	--	--	--	--
S13	5	71	08/14/01	120	<25	<25	<25	<25	140	110	<75	200	23 J	350	340	89	410	87
S14 *	12	7	08/14/01	<10	<25	46	<25	<25	41	<25	<75	--	--	--	--	--	--	--
S15	4	5	08/14/01	<10	<25	<25	<25	<25	<25	<25	<75	--	--	--	--	--	--	--
S19	5	2	08/14/01	<10	<25	<25	<25	<25	<25	<25	<75	--	--	--	--	--	--	--
S20	4	0	08/14/01	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S21	4	0	08/14/01	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S22	4	0	08/14/01	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S23	4	0	08/14/01	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S24 *	16	0	08/14/01	<10	<25	<25	<25	<25	<25	<25	<75	--	--	--	--	--	--	--
S25	5	0	08/14/01	<10	<25	<25	<25	<25	<25	<25	<75	<11	<10	<11	<10	<17	<12	<13
S26	8	2	08/14/01	12	<25	<25	<25	<25	<25	<25	<75	--	--	--	--	--	--	--

Key:

- DRO = Diesel Range Organics
- mg/kg = milligrams per kilogram
- µg/kg = micrograms per kilogram
- NA = Not Analyzed
- J = Analyte detected between the Limit of Detection and the Limit of Quantitation
- WAC = Wisconsin Administrative Code
- NE = Not Established by WAC
- 50** = Exceeds Chapter NR 720 WAC RCL
- * = soil sample collected below apparent water table

Table 3 Ground-Water Analytical Results, Mirro Plant #02, Manitowoc, Wisconsin

Well ID	Date Sampled	Relevant and Significant Analytical Results (µg/l)																		
		Benzene	Ethylbenzene	MTBE	Toluene	Trimethylbenzene	Xylenes	Acenaphthene	Anthracene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(K)Fluoranthene	Fluoranthene	Fluorene	1-Methyl Naphthalene	2-Methyl Naphthalene	Naphthalene	Phenanthrene	Pyrene
WAC PAL (µg/l)		0.5	140	12	200	96	1000	NE	600	NE	0.02	0.02	NE	80	80	NE	NE	8	NE	50
WAC ES (µg/l)		5	700	60	1000	480	10000	NE	3000	NE	0.2	0.2	NE	400	400	NE	NE	40	NE	250
Sump	11/28/01	<0.40	1.1 J	<0.40	0.95 J	<0.90	<1.40	<0.19	<0.036	<0.0030	<0.0064	<0.002	0.019	<0.086	<0.091	2	2.1	0.77	0.26	0.45

Key:

- MTBE = Methyl-Tertiary-Butyl-Ether
- PAH = Polynuclear Aromatic Hydrocarbons
- µg/l = micrograms per liter
- WAC = Wisconsin Administrative Code
- PAL = Preventive Action Limit
- ES = Enforcement Standard
- NE = Not established by WAC
- "J" = Analyte detected between Limit of Detection and Limit of Quantification
- = Not analyzed
- 32 = WAC Preventive Action Limit Exceeded
- 32 = WAC Enforcement Standard Exceeded

ATTACHMENT A

SOIL LABORATORY ANALYTICAL REPORTS

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5034385A						Sample Type	Soil	
Sample ID	S13						Sample Date	8/14/01	

Inorganic

General

Solids Percent	79	%			1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	120	mg/kg	0.38	1.3	1	8/22/01	DRO95	JDB	1
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PAH's

Acenaphthene	< 35	ug/kg	13	43	1	9/12/01	M8270	DJM	1
Acenaphthylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Anthracene	200	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Benzo(a)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(a)pyrene	< 17	ug/kg	17	57	1	9/12/01	M8270	DJM	1
Benzo(b)fluoranthene	< 24	ug/kg	24	80	1	9/12/01	M8270	DJM	1
Benzo(g,h,i)perylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(k)fluoranthene	< 37	ug/kg	37	120	1	9/12/01	M8270	DJM	1
Chrysene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Dibenzo(a,h)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluoranthene	23 "J"	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluorene	350	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Indeno(1,2,3-cd)pyrene	< 13	ug/kg	13	43	1	9/12/01	M8270	DJM	1
1-Methyl naphthalene	340	ug/kg	10	33	1	9/12/01	M8270	DJM	1
2-Methyl naphthalene	89	ug/kg	17	57	1	9/12/01	M8270	DJM	2
Naphthalene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	2
Phenanthrene	410	ug/kg	12	40	1	9/12/01	M8270	DJM	1
Pyrene	87	ug/kg	13	43	1	9/12/01	M8270	DJM	1

PVOC

Benzene	< 25	ug/kg	15	48	1	8/29/01	GRO95	CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/29/01	GRO95	CJR	1
MTBE	< 25	ug/kg	10	33	1	8/29/01	GRO95	CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/29/01	GRO95	CJR	1
1,2,4-Trimethylbenzene	140	ug/kg	24	77	1	8/29/01	GRO95	CJR	1
1,3,5-Trimethylbenzene	110	ug/kg	15	48	1	8/29/01	GRO95	CJR	1
Xylene's	< 75	ug/kg	18	60	1	8/29/01	GRO95	CJR	1

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5034385B									
Sample ID S10									
						Sample Type Soil			
						Sample Date 8/14/01			

Inorganic

General

Solids Percent	83.2	%			1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/22/01	DRO95	JDB	1
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PAH's

Acenaphthene	< 35	ug/kg	13	43	1	9/12/01	M8270	DJM	1
Acenaphthylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Anthracene	< 11	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Benzo(a)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(a)pyrene	< 17	ug/kg	17	57	1	9/12/01	M8270	DJM	1
Benzo(b)fluoranthene	< 24	ug/kg	24	80	1	9/12/01	M8270	DJM	1
Benzo(g,h,i)perylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(k)fluoranthene	< 37	ug/kg	37	120	1	9/12/01	M8270	DJM	1
Chrysene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Dibenzo(a,h)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluoranthene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluorene	< 11	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Indeno(1,2,3-cd)pyrene	< 13	ug/kg	13	43	1	9/12/01	M8270	DJM	1
1-Methyl naphthalene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
2-Methyl naphthalene	< 17	ug/kg	17	57	1	9/12/01	M8270	DJM	2
Naphthalene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	2
Phenanthrene	< 12	ug/kg	12	40	1	9/12/01	M8270	DJM	1
Pyrene	< 13	ug/kg	13	43	1	9/12/01	M8270	DJM	1

PVOC

Benzene	< 25	ug/kg	15	48	1	8/29/01	GRO95	CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/29/01	GRO95	CJR	1
MTBE	< 25	ug/kg	10	33	1	8/29/01	GRO95	CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/29/01	GRO95	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	24	77	1	8/29/01	GRO95	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	15	48	1	8/29/01	GRO95	CJR	1
Xylene's	< 75	ug/kg	18	60	1	8/29/01	GRO95	CJR	1

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5034385C		Sample Type		Soil				
Sample ID	S25		Sample Date		8/14/01				

Inorganic

General

Solids Percent	81.3	%			1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/22/01	DRO95	JDB	1
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PAH's

Acenaphthene	< 35	ug/kg	13	43	1	9/12/01	M8270	DJM	1
Acenaphthylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Anthracene	< 11	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Benzo(a)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(a)pyrene	< 17	ug/kg	17	57	1	9/12/01	M8270	DJM	1
Benzo(b)fluoranthene	< 24	ug/kg	24	80	1	9/12/01	M8270	DJM	1
Benzo(g,h,i)perylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(k)fluoranthene	< 37	ug/kg	37	120	1	9/12/01	M8270	DJM	1
Chrysene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Dibenzo(a,h)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluoranthene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluorene	< 11	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Indeno(1,2,3-cd)pyrene	< 13	ug/kg	13	43	1	9/12/01	M8270	DJM	1
1-Methyl naphthalene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
2-Methyl naphthalene	< 17	ug/kg	17	57	1	9/12/01	M8270	DJM	2
Naphthalene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	2
Phenanthrene	< 12	ug/kg	12	40	1	9/12/01	M8270	DJM	1
Pyrene	< 13	ug/kg	13	43	1	9/12/01	M8270	DJM	1

PVOC

Benzene	< 25	ug/kg	15	48	1	8/28/01	8021A	CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/28/01	8021A	CJR	1
MTBE	< 25	ug/kg	10	33	1	8/28/01	8021A	CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/28/01	8021A	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	24	77	1	8/28/01	8021A	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	15	48	1	8/28/01	8021A	CJR	1
m&p-Xylene	< 50	ug/kg	12	39	1	8/28/01	8021A	CJR	1
o-Xylene	< 25	ug/kg	6.4	20	1	8/28/01	8021A	CJR	1

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5034385D									
Sample ID S8									
						Sample Type Soil			
						Sample Date 8/14/01			

Inorganic

General

Solids Percent	84.1	%				1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/22/01	DRO95		JDB	1
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PVOC

Benzene	< 25	ug/kg	15	48	1	8/28/01	8021A		CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/28/01	8021A		CJR	1
MTBE	< 25	ug/kg	10	33	1	8/28/01	8021A		CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/28/01	8021A		CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	24	77	1	8/28/01	8021A		CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	15	48	1	8/28/01	8021A		CJR	1
m&p-Xylene	< 50	ug/kg	12	39	1	8/28/01	8021A		CJR	1
o-Xylene	< 25	ug/kg	6.4	20	1	8/28/01	8021A		CJR	1

Lab Code 5034385E										
Sample ID S26										
						Sample Type Soil				
						Sample Date 8/14/01				

Inorganic

General

Solids Percent	82.7	%				1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	12	mg/kg	0.38	1.3	1	8/22/01	DRO95		JDB	1.44
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PVOC

Benzene	< 25	ug/kg	15	48	1	8/28/01	8021A		CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/28/01	8021A		CJR	1
MTBE	< 25	ug/kg	10	33	1	8/28/01	8021A		CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/28/01	8021A		CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	24	77	1	8/28/01	8021A		CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	15	48	1	8/28/01	8021A		CJR	1
m&p-Xylene	< 50	ug/kg	12	39	1	8/28/01	8021A		CJR	1
o-Xylene	< 25	ug/kg	6.4	20	1	8/28/01	8021A		CJR	1

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
Project Name MANITOWOC
Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5034385F									
Sample ID S15									
						Sample Type Soil			
						Sample Date 8/14/01			

Inorganic

General

Solids Percent	80.9	%				1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/22/01	DRO95		JDB	1
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PVOC

Benzene	< 25	ug/kg	15	48	1	8/28/01	8021A		CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/28/01	8021A		CJR	1
MTBE	< 25	ug/kg	10	33	1	8/28/01	8021A		CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/28/01	8021A		CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	24	77	1	8/28/01	8021A		CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	15	48	1	8/28/01	8021A		CJR	1
m&p-Xylene	< 50	ug/kg	12	39	1	8/28/01	8021A		CJR	1
o-Xylene	< 25	ug/kg	6.4	20	1	8/28/01	8021A		CJR	1

Lab Code 5034385G										
Sample ID S19										
						Sample Type Soil				
						Sample Date 8/14/01				

Inorganic

General

Solids Percent	80.7	%				1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/22/01	DRO95		JDB	1
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PVOC

Benzene	< 25	ug/kg	15	48	1	8/29/01	8021A		CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/29/01	8021A		CJR	1
MTBE	< 25	ug/kg	10	33	1	8/29/01	8021A		CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/29/01	8021A		CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	24	77	1	8/29/01	8021A		CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	15	48	1	8/29/01	8021A		CJR	1
m&p-Xylene	< 50	ug/kg	12	39	1	8/29/01	8021A		CJR	1
o-Xylene	< 25	ug/kg	6.4	20	1	8/29/01	8021A		CJR	1

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5034385H								
Sample ID	S1								
						Sample Type	Soil		
						Sample Date	8/14/01		

Inorganic

General

Solids Percent	82	%				1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/22/01	DRO95		JDB	1
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PVOC

Benzene	60	ug/kg	15	48	1	8/29/01	8021A		CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/29/01	8021A		CJR	1
MTBE	< 25	ug/kg	10	33	1	8/29/01	8021A		CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/29/01	8021A		CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	24	77	1	8/29/01	8021A		CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	15	48	1	8/29/01	8021A		CJR	1
m&p-Xylene	< 50	ug/kg	12	39	1	8/29/01	8021A		CJR	1
o-Xylene	< 25	ug/kg	6.4	20	1	8/29/01	8021A		CJR	1

Lab Code	5034385I									
Sample ID	S5									
						Sample Type	Soil			
						Sample Date	8/14/01			

Inorganic

General

Solids Percent	78.2	%				1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/22/01	DRO95		JDB	1
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PVOC

Benzene	< 25	ug/kg	15	48	1	8/29/01	8021A		CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/29/01	8021A		CJR	1
MTBE	< 25	ug/kg	10	33	1	8/29/01	8021A		CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/29/01	8021A		CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	24	77	1	8/29/01	8021A		CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	15	48	1	8/29/01	8021A		CJR	1
m&p-Xylene	< 50	ug/kg	12	39	1	8/29/01	8021A		CJR	1
o-Xylene	< 25	ug/kg	6.4	20	1	8/29/01	8021A		CJR	1

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5034385J									
Sample ID S24									
						Sample Type Soil			
						Sample Date 8/14/01			

Inorganic

General

Solids Percent	77.9	%			1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/22/01	DRO95	JDB	1
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PVOC

Benzene	< 25	ug/kg	15	48	1	8/29/01	8021A	CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/29/01	8021A	CJR	1
MTBE	< 25	ug/kg	10	33	1	8/29/01	8021A	CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/29/01	8021A	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	24	77	1	8/29/01	8021A	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	15	48	1	8/29/01	8021A	CJR	1
m&p-Xylene	< 50	ug/kg	12	39	1	8/29/01	8021A	CJR	1
o-Xylene	< 25	ug/kg	6.4	20	1	8/29/01	8021A	CJR	1

Lab Code 5034385K									
Sample ID S14									
						Sample Type Soil			
						Sample Date 8/14/01			

Inorganic

General

Solids Percent	80.3	%			1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/22/01	DRO95	JDB	1
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PVOC

Benzene	< 25	ug/kg	15	48	1	8/29/01	8021A	CJR	1
Ethylbenzene	46	ug/kg	7	22	1	8/29/01	8021A	CJR	1
MTBE	< 25	ug/kg	10	33	1	8/29/01	8021A	CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/29/01	8021A	CJR	1
1,2,4-Trimethylbenzene	41	ug/kg	24	77	1	8/29/01	8021A	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	15	48	1	8/29/01	8021A	CJR	1
m&p-Xylene	< 50	ug/kg	12	39	1	8/29/01	8021A	CJR	1
o-Xylene	< 25	ug/kg	6.4	20	1	8/29/01	8021A	CJR	1

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5034385L									
Sample ID S12									
						Sample Type Soil			
						Sample Date 8/14/01			

Inorganic

General

Solids Percent 77.9 % 1 8/17/01 5021 JDB 1

Organic

General

Diesel Range Organics < 10 mg/kg 0.38 1.3 1 8/24/01 DRO95 KAH 1

PVOC

Benzene < 25 ug/kg 15 48 1 8/29/01 8021A CJR 1
 Ethylbenzene < 25 ug/kg 7 22 1 8/29/01 8021A CJR 1
 MTBE < 25 ug/kg 10 33 1 8/29/01 8021A CJR 1
 Toluene < 25 ug/kg 5.7 18 1 8/29/01 8021A CJR 1
 1,2,4-Trimethylbenzene < 25 ug/kg 24 77 1 8/29/01 8021A CJR 1
 1,3,5-Trimethylbenzene < 25 ug/kg 15 48 1 8/29/01 8021A CJR 1
 m&p-Xylene < 50 ug/kg 12 39 1 8/29/01 8021A CJR 1
 o-Xylene < 25 ug/kg 6.4 20 1 8/29/01 8021A CJR 1

Lab Code 5034385M						Sample Type Soil			
Sample ID S20						Sample Date 8/14/01			

Inorganic

General

Solids Percent 74.4 % 1 8/17/01 5021 JDB 1

Organic

General

Diesel Range Organics < 10 mg/kg 0.38 1.3 1 8/24/01 DRO95 KAH 1

Lab Code 5034385N						Sample Type Soil			
Sample ID S21						Sample Date 8/14/01			

Inorganic

General

Solids Percent 83.4 % 1 8/17/01 5021 JDB 1

Organic

General

Diesel Range Organics < 10 mg/kg 0.38 1.3 1 8/24/01 DRO95 KAH 1

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5034385O									
Sample ID S22									
						Sample Type Soil			
						Sample Date 8/14/01			

Inorganic

General

Solids Percent	82.6	%			1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/24/01	DRO95	KAH	1
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Lab Code 5034385P									
Sample ID S23									
						Sample Type Soil			
						Sample Date 8/14/01			

Inorganic

General

Solids Percent	83.9	%			1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	8/24/01	DRO95	KAH	1
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Lab Code 5034385Q									
Sample ID TANKER									
						Sample Type Water			
						Sample Date 8/14/01			

Organic

PAH's

Acenaphthene	6.5	ug/l	1.7	5.5	10	8/24/01	8310	DJM	2
Acenaphthylene	< 10	ug/l	10	32	10	8/24/01	8310	DJM	2
Anthracene	1.7	ug/l	0.1	0.33	10	8/24/01	8310	DJM	1
Benzo(a)anthracene	3.1	ug/l	0.74	2.5	10	8/24/01	8310	DJM	1
Benzo(a)pyrene	3.2 "J"	ug/l	1	3.4	10	8/24/01	8310	DJM	1
Benzo(b)fluoranthene	2.8	ug/l	0.65	2.2	10	8/24/01	8310	DJM	1
Benzo(g,h,i)perylene	< 5.2	ug/l	5.2	17	10	8/24/01	8310	DJM	2
Benzo(k)fluoranthene	1.3	ug/l	0.1	0.33	10	8/24/01	8310	DJM	1
Chrysene	< 7	ug/l	7	24	10	8/24/01	8310	DJM	1
Dibenzo(a,h)anthracene	< 4.2	ug/l	4.2	14	10	8/24/01	8310	DJM	2
Fluoranthene	110 "J"	ug/l	36	120	100	8/30/01	8310	DJM	1
Fluorene	7.1 "J"	ug/l	3.3	11	10	8/24/01	8310	DJM	2
Indeno(1,2,3-cd)pyrene	< 5.9	ug/l	5.9	20	10	8/24/01	8310	DJM	1
1-Methyl naphthalene	72	ug/l	2.1	7	10	8/24/01	8310	DJM	2
2-Methyl naphthalene	74	ug/l	2	6.7	10	8/24/01	8310	DJM	2

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code	
Lab Code	5034385Q					Sample Type	Water			
Sample ID	TANKER					Sample Date	8/14/01			
Naphthalene	17	ug/l	2.2	7.4	10	8/24/01	8310	DJM	2	
Phenanthrene	34	ug/l	0.37	1.2	10	8/24/01	8310	DJM	1	
Pyrene	7.5	ug/l	0.59	2	10	8/24/01	8310	DJM	2	
PVOC										
Benzene	0.41 "J"	ug/l	0.21	0.67	1	8/20/01	8021A	CAH	1	
Ethylbenzene	7.2	ug/l	0.22	0.7	1	8/20/01	8021A	CAH	1	
MTBE	< 0.46	ug/l	0.46	1.5	1	8/20/01	8021A	CAH	1	
Toluene	3.4	ug/l	0.41	1.3	1	8/20/01	8021A	CAH	1	
1,2,4-Trimethylbenzene	42	ug/l	0.26	0.84	1	8/20/01	8021A	CAH	1	
1,3,5-Trimethylbenzene	14	ug/l	0.34	1.1	1	8/20/01	8021A	CAH	1	
m&p-Xylene	21	ug/l	0.43	1.4	1	8/20/01	8021A	CAH	1	
o-Xylene	11	ug/l	0.26	0.82	1	8/20/01	8021A	CAH	1	

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code	Comment
1	All laboratory QC requirements were met for this sample.
2	The duplicate RPD failed to meet acceptable QC limits.
44	Chromatogram indicates possible lube oil contamination.

Authorized Signature



Check office originating request

1214 W. Venture Ct.
Mequon, WI 53092
262-241-3133
FAX 262-241-8222

372 West County Road D
New Brighton, MN 55112
651-635-9100
FAX 651-635-0643

954 Circle Drive
Green Bay, WI 54304
920-592-8400
FAX 920-592-8444

330 South 4th Avenue
Park Falls, WI 54552
715-762-1544
FAX 715-762-1844

Lab ID# 5034385

1203 Storbeck Drive
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920-324-8600
FAX 920-324-3023

3211 Arnold Lane
Northbrook, IL 60062
847-562-8577
FAX 847-562-8552

112 7th Street NE
Rochester, MN 55906
507-282-3800
FAX 507-282-3100

31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530

Project No: <u>ESP 03-2200-1267</u> Task No: <u>50</u>		Laboratory: <u>U.S. Oil</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Method of shipment <u>Ground</u> Contents Temperature <u>4</u> °C Refrigerator No. <u>2</u>																	
Project Location: (city) <u>Manitowoc</u>		Wisconsin DNR Certification #: <u>445027660</u>		<p style="text-align: center;">ANALYSES REQUESTED</p> <table border="1"> <tr> <td>DRO (WI Modified Method)</td> <td>GFRO (WI Modified Method)</td> <td>BETX (EPA Method 8020)</td> <td>PVOC (EPA Method 8020)</td> <td>VOC (EPA Method 8021)</td> <td>PAH (EPA Method)</td> <td>Pb (EPA Method)</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>				DRO (WI Modified Method)	GFRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DRO (WI Modified Method)	GFRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)					VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)											
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
Project Manager: <u>Lynelle Caine</u>		Laboratory Contact: <u>Mike Ricker</u>																			
Sampler: (name) <u>Susan Knabe</u>		Price Quote:																			
Sampler: (Signature) <u>Sue Knabe</u>		TURNAROUND TIME REQUIRED <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush <u>Water only</u>																			
Sampling Date(s): <u>8-14-01</u>		Date Needed <u>8-20-01</u>																			
Reports to be Sent to: <u>Sue Knabe</u>																					
Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO (WI Modified Method)	GFRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)						
		Date	Time		Water	Soil	Other														
<u>5034385A</u>	<u>S13</u>	<u>8-14-01</u>	<u>1214</u>	<u>2-40ml, 1-2oz</u>	<input checked="" type="checkbox"/>		<u>Ice</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>B, S10</u>		<u>946</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>C, S25</u>		<u>1540</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>D, S8</u>		<u>944</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>E, S26</u>		<u>1604</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>F, S15</u>		<u>1216</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>G, S19</u>		<u>1220</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>H, S1</u>		<u>910</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>I, S5</u>		<u>943</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>J, S24</u>		<u>1527</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
Packed for Shipping by: <u>Sue Knabe</u>		Comments: <u>Called to confirm jar labelled S24 but in S25 bag was for S25 sample. csm 8/16/01 csm</u>																			
Shipment Date: <u>8-16-01</u>																					
Relinquished By: <u>MBP</u>		Date: <u>8-16-01</u>	Relinquished By: <u>Chy Pagnelle</u>		Date: <u>8/16/01</u>	Relinquished By:		Date:													
Company: <u>Northern Environmental</u>		Time: <u>0740</u>	Company: <u>US Oil</u>		Time: <u>18:45</u>	Company:		Time:													
Received By: <u>Chy Pagnelle</u>		Date: <u>8-16-01</u>	Received By: <u>Katie Asman</u>		Date: <u>8/16/01</u>	Received By:		Date:													
Company: <u>US Oil</u>		Time: <u>0740</u>	Company: <u>US Oil</u>		Time: <u>18:45</u>	Company:		Time:													

Check office originating request

1214 W. Venture Ct.
Mequon, WI 53092
262-241-3133
FAX 262-241-8222

372 West County Road D
New Brighton, MN 55112
651-635-9100
FAX 651-635-0643

954 Circle Drive
Green Bay, WI 54304
920-592-8400
FAX 920-592-8444

330 South 4th Avenue
Park Falls, WI 54552
715-762-1544
FAX 715-762-1844

Lab ID# 5034385

1203 Storbeck Drive
Waupun, WI 53963
920-324-8600
FAX 920-324-3023

3211 Arnold Lane
Northbrook, IL 60062
847-562-8577
FAX 847-562-8552

112 7th Street NE
Rochester, MN 55906
507-282-3800
FAX 507-282-3100

31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530

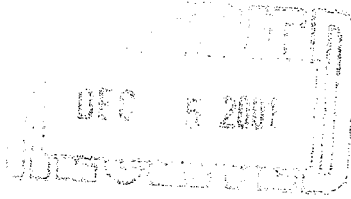
Project No: ESP 03-2200-1267 Task No: 50 Laboratory: U.S. Oil
 Project Location: Manitowoc Wisconsin DNR Certification #: 44502766D
 Project Manager: Lynelle Caine Laboratory Contact: Mike Ricker
 Sampler: Susan Knabe Price Quote:
 Sampler: Sue Knabe **TURNAROUND TIME REQUIRED**
 Sampling Date(s): 8-14-01 Normal Rush water only
 Reports to be Sent to: Sue Knabe Date Needed: _____

Sample Integrity - To be completed by receiving lab
 Seal intact upon receipt Yes No
 Method of shipment Overnight
 Contents Temperature _____ °C Refrigerator

Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	ANALYSES REQUESTED									
		Date	Time		Water	Soil	Other		DRO (WI Method 8012)	GRO (WI Method 8020)	BETX (WI Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)			
<u>5034385K</u>	<u>S14</u>	<u>8-14-01</u>	<u>1215</u>	<u>2-40ml, 1-2oz</u>		<u>X</u>		<u>Ice</u>	<u>X</u>			<u>X</u>						
	<u>L, S12</u>		<u>1213</u>			<u>X</u>			<u>X</u>			<u>X</u>						
	<u>M, S20</u>		<u>1405</u>			<u>X</u>			<u>X</u>									
	<u>N, S31</u>		<u>1406</u>			<u>X</u>			<u>X</u>									
	<u>O, S22</u>		<u>1450</u>			<u>X</u>			<u>X</u>									
	<u>P, S23</u>		<u>1451</u>			<u>X</u>			<u>X</u>									
	<u>Q, Tanker sample</u>	<u>8-14-01</u>	<u>1648</u>	<u>3-40ml, 1-1L</u>	<u>X</u>			<u>HCl, Ice</u>				<u>X</u>		<u>X</u>				

Packed for Shipping by: Sue Knabe Comments: * If DRD detected at greater than 100ppm, then run PVOCs.
 Shipment Date: 8-16-01

Relinquished By: <u>MB Thompson</u> Company: <u>Northern Environmental</u> Received By: <u>Chay Poquette</u> Company: <u>US Oil</u>	Date: <u>8-16-01</u> Time: <u>0740</u> Date: <u>8-16-01</u> Time: <u>0740</u>	Relinquished By: <u>Chay Poquette</u> Company: <u>US Oil</u> Received By: <u>Tracie Asman</u> Company: <u>US Oil</u>	Date: <u>8/16/01</u> Time: <u>18:45</u> Date: <u>8/16/01</u> Time: <u>18:45</u>	Relinquished By: _____ Company: _____ Received By: _____ Company: _____	Date: _____ Time: _____ Date: _____ Time: _____
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ORIGINAL

ANALYTICAL REPORT

1 of 1

NORTHERN ENVIRONMENTAL
 ANN KRZYZEWSKI
 954 CIRCLE DRIVE
 GREEN BAY, WI 54304

Project Name: MANITOWOC
 Contract #: 1595
 Project #: ESP-1267
 Folder #: 22187
 Purchase Order #: INV 22148
 Arrival Temperature: See COC
 Report Date: 12/4/01
 Date Received: 11/29/01
 Reprint Date:

CTI LAB#:	99008	Sample Description:	SP1	Sampled:	11/28/01	1125
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	84.1	%	N/A	N/A	1			12/3/01	SET	EPA 5030A
Organic Results										
Diesel Range Organics	<3.2	mg/kg	3.2	10	1		12/3/01	12/4/01	KJJ	WDNR DRO
Benzene	<25	ug/kg	10	34	1		11/30/01	12/1/01	PRH	EPA 8020
Ethylbenzene	<25	ug/kg	13	44	1		11/30/01	12/1/01	PRH	EPA 8020
Methyl tert-butyl ether	<25	ug/kg	12	39	1		11/30/01	12/1/01	PRH	EPA 8020
Toluene	<25	ug/kg	11	38	1		11/30/01	12/1/01	PRH	EPA 8020
1,2,4-Trimethylbenzene	<25	ug/kg	12	39	1		11/30/01	12/1/01	PRH	EPA 8020
1,3,5-Trimethylbenzene	<25	ug/kg	13	42	1		11/30/01	12/1/01	PRH	EPA 8020
m & p-Xylene	<25	ug/kg	24	79	1		11/30/01	12/1/01	PRH	EPA 8020
o-Xylene	<25	ug/kg	14	46	1		11/30/01	12/1/01	PRH	EPA 8020

Notes: * Indicates Value in between LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: _____

Record Reviewer

WI DNR Lab Certification Number: 15-7066030
 DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

Lauridsen, Keld B

From: Lynelle P. Caine(SMTP:lcaine@northern-env.com)
Reply To: lcaine@northernenvironmental.com
Sent: Wednesday, January 23, 2002 11:47 AM
To: Lauridsen, Keld B
Subject: Mirro Plant #02, BRRTs ID #03-36-280532

RECEIVED

JAN 30 2002

ERS DIVISION
OSHKOSH

Hi Keld,

Per your request, I am providing the following information regarding the collection of soil sample SP1. We collected soil from 6 locations on the stockpiled soil and augered down 2 to 3 feet to the center of the pile and collected the samples. Soil was placed in a bucket and mixed up. A composite sample (SP1) was then collected from the bucket.

FYI- We are in the process of preparing the case closure request for this site and will be requesting the site to be transferred to Commerce. Should be submitted later this week or early next week.

Thanks,

Lynelle P. Caine
Northern Environmental
954 Circle Drive, Green Bay, WI 54304
lcaine@northern-env.com
(920)592-8400
Fax (920)592-8444

January 21, 2002
(ESP-03-2200-1267)



954 Circle Drive
Green Bay, WI 54304
920-592-8400
1-800-854-0606
Fax • 920-592-8444

E-mail • netgab@admin.itol.com

RECEIVED

JAN 30 2002

ERS DIVISION
OSHKOSH

Mr. Doug Deaton, PE
Mirro Company
Post Office Box 1330
Manitowoc, Wisconsin 54220

RE: Underground Storage Tank Site Assessment, Mirro Corporation Plant #2, 2401 Mirro Drive,
Manitowoc, Wisconsin; BRRTS Case #03-36-280532

Dear Mr. Deaton:

Northern Environmental Technologies, Incorporated (Northern Environmental) completed an underground storage tank (UST) site assessment on August 14, 2001, at the Mirro Corporation Plant #2, 2401 Mirro Drive, Manitowoc, Wisconsin (the Site). Two 20,000-gallon fuel oil USTs and associated piping were removed from the Site. The Site is in the northeast quarter of the southeast quarter of Section 9, Township 19 North, Range 24 East (44 degrees, 7 minutes, 24 seconds north latitude and 87 degrees, 37 minutes, 19 seconds west longitude) in the city of Manitowoc, Manitowoc County, Wisconsin. The Site location is shown in Figure 1.

This UST closure assessment conforms to Chapter COMM 10, Wisconsin Administrative Code (Wis. Adm. Code) and the Wisconsin Department of Natural Resources (WDNR) site assessment guidelines (WDNR, *Site Assessments for Underground Storage Tanks Technical Guidance*, June, 1993).

Specific information regarding the Site, UST system, UST removal, and site assessment are attached. Information obtained from the UST removal contractor (Environmental Services Plus, 2001) and the site representative, Mr. Doug Deaton, about the UST system is listed in Tables 1 and 2. The UST system layout is illustrated in Figure 2.

As part of the UST closure assessment, soil samples were collected to document whether or not a petroleum release had occurred from the USTs. Field-screening results indicated petroleum vapors were present in several soil samples. Soil sample S13, collected from 5 feet below grade (fbg) exhibited the highest photoionization detector (PID) reading and was therefore submitted for laboratory analysis of diesel range organics (DRO), petroleum volatile organic compounds (PVOCs), and polynuclear aromatic hydrocarbons (PAHs) to confirm the release. DRO was detected in soil sample S13 at a concentration of 120 milligrams per kilogram (mg/kg). Several PVOCs and PAHs were also detected in sample S13. The WDNR currently uses a concentration of 10 mg/kg DRO (WDNR, *Release News*, Volume 5, Number 1, January 1995) to define a release and hence require additional investigation. Based on the information collected during the UST site assessment, petroleum was released near the former fuel oil USTs. The soil sample locations are shown in Figure 2. The field-screening and laboratory results for S13 are summarized in Table 3. Copies of laboratory analytical reports and chain of custody, a copy of the checklist for UST closure, and copies of the UST inventory forms are included in Attachment A.

For discharges of hazardous substances into the environment from UST systems, NR 706, Wis. Adm. Code requires that the owner or operator of the UST system immediately notify the WDNR of the release. If required or necessary, the responsible party shall complete interim actions to halt, contain,

and/or stabilize the discharged hazardous substance (NR 708, Wis. Adm. Code); complete a site investigation to define the nature, degree, and extent of the contamination (NR 716, Wis. Adm. Code); and remediate the released substance to restore the environment. In accordance with WDNR requirements, the following actions have been taken:

- ▲ The released petroleum was reported to the WDNR by Mirro Corporation on August 20, 2001.
- ▲ The suspected source of the released petroleum (the fuel oil USTs) was removed.
- ▲ Soil sample laboratory analysis confirmed that petroleum was released.

State law requires that the extent of the released petroleum be investigated, and information necessary to evaluate remedial options be gathered and examined. Following removal of the USTs, approximately 100 cubic yards of soil was excavated and stockpiled on site. To facilitate backfilling, approximately 4,700 gallons of water was also pumped from the excavation into a tanker truck. Groundwater disposal documentation is included in Attachment B. A sump was also installed in the excavation prior to backfilling. The results of the soil excavation and ground-water sample collected from the sump will be submitted under a separate letter report.

The findings and results of the UST closure assessment are based on interpretation of the information available to Northern Environmental. Northern Environmental does not warrant that this report represents an exhaustive study of all possible environmental concerns at the Site. The items investigated as part of this study represent likely sources of environmental concern associated with the described UST system and are, consequently, believed to adequately address the needs of the responsible party at the present time.

Please feel free to contact Northern Environmental at 800-854-0606 if you have any questions.

Sincerely,
**Northern Environmental
Technologies, Incorporated**

Susan Knabe

Susan T. Knabe
Hydrogeologist

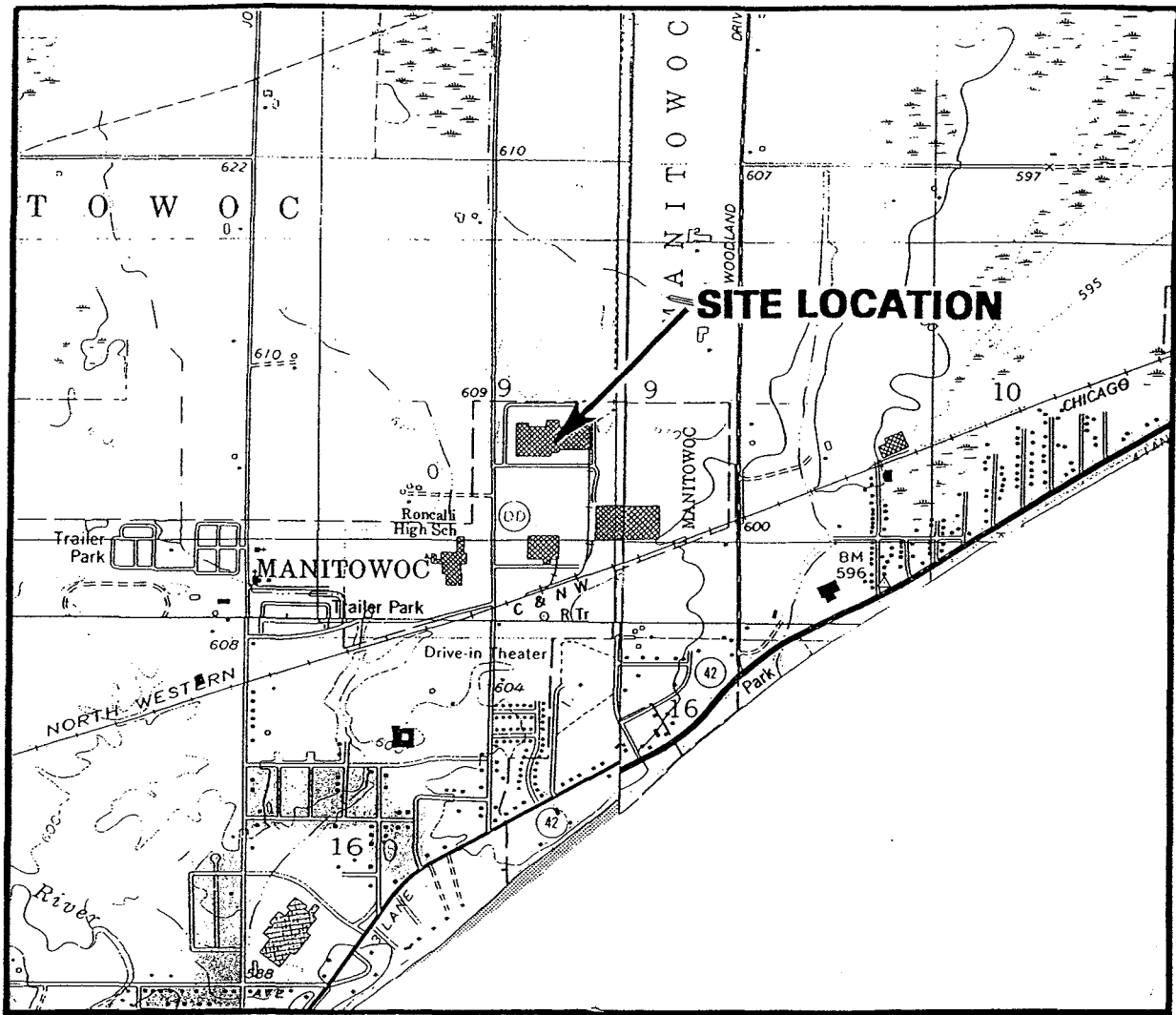
Lynelle P. Caine

Lynelle P. Caine
Project Manager

STK/amk
Attachments

c: Mr. Keld Lauridsen, WDNR

© 2002 Northern Environmental Technologies, Incorporated



SCALE IN FEET

1" = 2000'



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION

BASE MAP SOURCE: USGS MISHICOT, AND TWO RIVERS, WISCONSIN 7.5 MINUTE QUADRANGLE (REVISED 1978)

BASE MAP SOURCE: USGS MANITOWOC, WISCONSIN 7.5 MINUTE QUADRANGLE (REVISED 1973)

DRAWN BY: JJK PROJECT: MIR-0919 DATE: 8/11/99

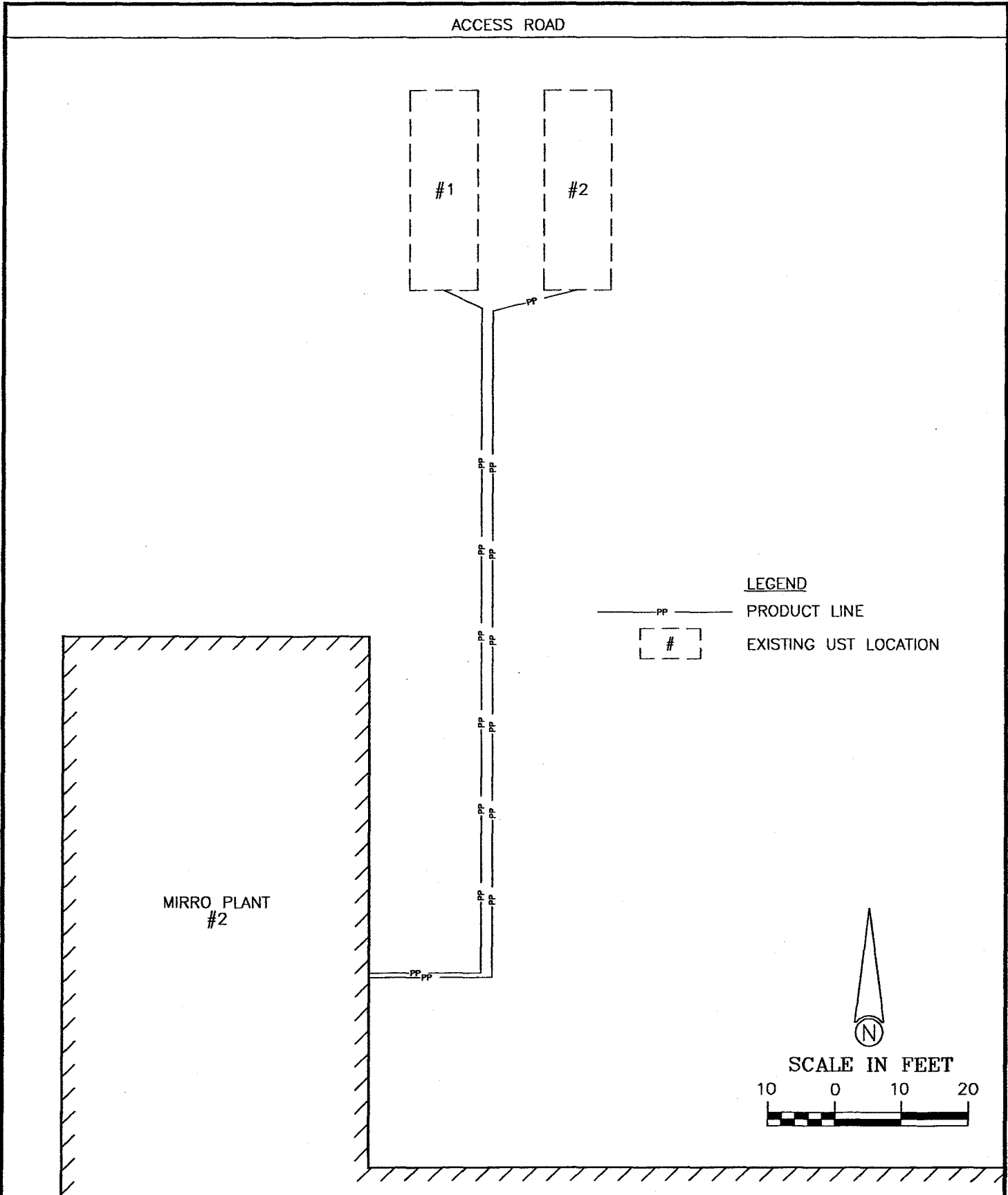
REV. DATE THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED.

 **Northern Environmental**™
Hydrologists · Engineers · Geologists

MIRO PLANT #2
MANITOWOC, WISCONSIN

SITE LOCATION AND
LOCAL TOPOGRAPHY





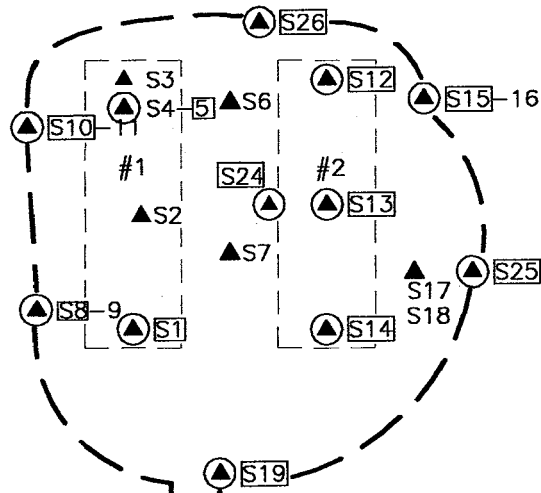
S:\PROJ\ESP\22001267\DRAWINGS\092501-2.DWG

DRAWN BY: JRB	PROJECT: ESP-1267	DATE: 09/25/01
REV. DATE	THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED.	
Northern Environmental SM Hydrologists • Engineers • Geologists		

MIRRO COMPANY MANITOWOC, WISCONSIN
<h2 style="margin: 0;">SITE LAYOUT</h2>

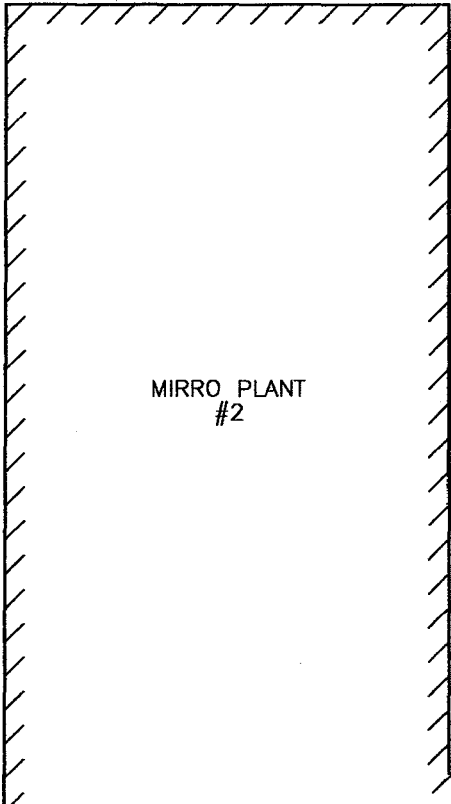
FIGURE 2

ACCESS ROAD



LEGEND

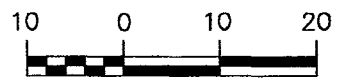
- ▲ S1 SOIL SAMPLE LOCATION COLLECTED FOR FIELD SCREENING
- S2 SOIL SAMPLE LOCATION COLLECTED FOR FIELD SCREENING AND LAB ANALYSIS (ONLY BOXED IN NUMBERS HAVE BEEN SUBMITTED FOR LAB ANALYSIS)
- EXTENT OF REMEDIAL EXCAVATION
- [#] FORMER UST LOCATION



MIRRO PLANT #2



SCALE IN FEET



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DRAWN BY: JRB	PROJECT: ESP-1267	DATE: 09/25/01
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MIRRO COMPANY
MANITOWOC, WISCONSIN

EXTENT OF EXCAVATION
WITH SOIL SAMPLE LOCATIONS

FIGURE 3

Table 1 Summary of UST System Information, Mirro Corporation Plant #2, Manitowoc, Wisconsin

UST Number	Registration Number	UST Construction	Volume (gallons)	Contents	Status	Date Installed	Type of Delivery System	Piping Construction	Location of Check Valves
UST 1	414576	Coated Steel	20,000	Fuel Oil	Removed	1958	Non-safe Suction	Unknown	Unknown
UST 2	414577	Coated Steel	20,000	Fuel Oil	Removed	1958	Non-safe Suction	Unknown	Unknown

Table 2 Summary of UST System Inspection, Mirro Corporation Plant #2, Manitowoc, Wisconsin

UST Number	UST Condition	Piping Condition	Piping Joint Integrity	Dispenser Condition	Apparent Releases
UST 1	Good	Good	Good	Unknown	Yes
UST 2	Good	Good	Good	Unknown	Yes

Table 3 Summary of Soil Sample Field Screening And Laboratory Analysis, Mirro Corporation Plant #2, Manitowoc, Wisconsin

Sample Number	Associated UST System	Location	Depth (fbg)	Date Collected	Time Screened	PID Response (iui)	Odor	Soil Description	Soil Type (USCS)	Laboratory Analytical Results (mg/kg) *
S13	Fuel Oil	Between USTs	5	8/14/01	1231	71	Fuel Oil	Silty sand	SM	DRO 120

Key:

- UST = underground storage tank
- fbg = feet below grade
- DRO = diesel range organics
- * = Concentrations of PVOCs and PAHs are not listed, please see lab reports.
- iui = instrument units as isobutylene
- USCS = Unified Soil Classification System
- mg/kg = milligram per kilogram

BACKGROUND INFORMATION

Site Address

2401 Mirro Drive
Manitowoc, Wisconsin

Site Legal Description:

NE 1/4, SE 1/4, Section 9, Township 19 N, Range 24 E

County Manitowoc

UST System Owner

Name: Mirro Corporation
Address: 2401 Mirro Drive, Manitowoc, Wisconsin 54221-1330
Telephone No: (920) 684-3479

Site Owner (if different from above)

Name: Mirro Corporation
Address: 2401 Mirro Drive, Manitowoc, Wisconsin 54221-1330
Telephone No: (920) 684-3479

Past and Present Property Use

The Site is currently the location of Mirro Plant #2, a plastics manufacturing company.

Description of Any USTs Previously Removed from the Site

According to Wisconsin Division of Workforce and Development on line database, one 5,000-gallon chemical UST was previously removed from the Site.

Has the Current System Ever Been Lined or Repaired?

Yes _____ No _____ Unknown X

Are Other USTs or LUSTs Present on Adjacent Properties?

Yes _____ No X Unknown _____

Are Any of the UST Systems Described in this UST Site Assessment Believed to Have Released Product?

Yes No Unknown

If so, describe UST and method of determining release:

Laboratory results of a soil sample collected during the UST site assessment detected a DRO concentration of 120 mg/kg. Several PVOCs and PAHs were also detected in the sample.

Has the Party Responsible for the UST System Been Notified of the Release and of Their Responsibilities under Chapter NR 158, Wisconsin Administrative Code?

Yes No

TANK EXCAVATION(S) AND REMOVAL(S) AND CLEANING PROCEDURES

UST Closed By

Removal X Abandonment In-Place

Date of Closure

August 14, 2001

Site Assessor

Company Name: Northern Environmental Technologies, Incorporated
Company Address: 954 Circle Drive, Green Bay, Wisconsin 54304
Company Telephone No: (920) 592-8400
Certified Individual: Susan Knabe
Certification Number: 248630

UST Removal Contractor

Company Name: Environmental Services Plus
Company Address: W1732 County Road KK, Kaukauna, WI 54130
Company Telephone No: (920) 766-6756
Certified Individual: Jesse Rose
Certification Number: 41240

Excavator Contractor

Company Name: Environmental Services Plus
Company Address: W1732 County Road KK, Kaukauna, WI 54130
Company Telephone No: (920) 766-6756

Descriptions of tank system(s) removed from and known tanks remaining on the site are provided in Tables 1 and 2.

TANK CLEANING AND DISPOSAL DOCUMENTATION

Location of Cleaning

On Site X Off Site Other

Method Used to Clean the Tank

Holes were cut in the sides of the USTs and the walls were scraped to remove remaining product or sludge.

Final Disposal (Include copies of disposal documents in Attachment A)

Recycled X Scrapped Disposed

Handling of Cleaning Waste Water (Include copies of disposal documents in Attachment A)

Not applicable. Water was not used to clean the USTs.

Method of Tank Transport

The USTs were cut apart and hauled off-site to be recycled.

Documentation of Emergency Waiver to Transport Tank (Include copies of disposal documents in Attachment A, if applicable)

Not applicable.

Contractor Cleaning Tank

Company Name: Clearwater Technologies, Inc.
Company Address: 432 Bishop Avenue, Plymouth., WI 53073
Company Telephone No: (920) 892-8823

Contractor Dismantling Tank

Company Name: Environmental Services Plus
Company Address: W1732 County Road KK, Kaukauna, WI 54130
Company Telephone No: (920) 766-6756

Contractor Transporting Tank

Company Name: Environmental Services Plus
Company Address: W1732 County Road KK, Kaukauna, WI 54130
Company Telephone No: (920) 766-6756

Contractor Disposing of Tank

Company Name:

Company Name:

Company Address:

Mid-State Welding

Stockbridge, Wisconsin

SECSI

Schroeder Environmental Cleaning Services, Inc.

August 21, 2001

Environmental Services Plus
W1732 County Road KK
Kaukauna, WI 54130
Attn: Mr. Jesse Rose

RE: Invoice #21134

Dear Jesse:

On August 14, 2001, Clearwater Technologies on behalf of Schroeder Environmental Cleaning Services, Inc., cleaned and rendered "VAPOR-FREE" two (2) 20,000 gallon #2 fuel oil tanks located at Mirro, Manitowoc, WI.

The tanks were cleaned and tested "vapor-free". I understand that you arranged for tank removal.

There were eighteen (18) drums of waste tank bottoms left on site. I will contact you regarding waste disposal.

Thank you for the opportunity to be of service. We look forward to working with you again.

Sincerely,



Nancy Schroeder
Business Manager

DANGER!

HOT WORK PERMIT

THIS PERMIT MUST BE USED FOR:

- Portable Gas or Electric Cutting or Welding
- Burning
- Abrasive Grinding or Blasting
- Brazing or Torch Soldering
- Other Processes Generating Heat, Sparks or Flames that are Potential Ignition Sources:

Date of Issue: 8/17/01

Time of Issue: 09:30

Permit Expires: 8/18/01

Time Expires: 09:30

HOT WORK LOCATION: 02
Plant

North End outside boiler room
Department or Area

TASK DESCRIPTION:

Cutting apart old fuel oil tanks
MIRRO COMPANY PLANT #2
2401 MIRRO DRIVE

PRE-WORK INSPECTION & ARRANGEMENTS - Before Starting Hot Work:

I verify the location where this hot work will be done has been evaluated and personally inspected. Precautions are identified on the Hot Work Checklist (located on Page 2).

Initials

SV

Person Performing Hot Work:

Print Name

STEVE - MIDSTATE WELDING

DD

Person Authorizing Hot Work:

Doug Deaton

stockbridge w1

Designated Fire Watch:

FINAL CHECK - After Hot Work Is Completed:

Work Area and Adjacent Areas to Which Sparks and Heat May Have Spread (inc. floor above/below) & On Opposite Side of Walls Were Inspected After Hot Work Completed and Found To Be Firesafe.

Initials

Person Doing Hot Work:

Print Name

STEVE - MIDSTATE WELDING

Time Completed

8/17/01 18

Designated Fire Watch:

HOT WORK CHECKLIST

Check One:

REQUIRED PRECAUTIONS:

Yes N/A

- Sprinklers or Fire Suppression Systems In Service/Operable.
- Alternative Fire Protection (If Sprinklers Are Out Of Service).
Describe: _____
- Fire Hoses and/or Portable Fire Extinguishers Are Available.
- Welding Flash Screens in Place When Potential Exposure To Adjacent Workers.
- Ventilation Adequate to Control Exposure to Airborne Fumes, Gases or Particulates.
- Paint or Coating Containing Heavy Metals (Lead or Cadmium), Epoxy or Urethanes Have Been Removed At Least 4 Inches Back From Area Where Heat Is To Be Applied.

WITHIN 35 FEET OF HOT WORK:

- Flammable Liquids, Dusts and Chemical Containers Removed.
- Flammable or Explosive Atmosphere in Area Eliminated.
Check Area With Meter When There is Potential For Presence of Flammable Gas or Liquid. NO HOT WORK PERMITTED IF METER READS ABOVE 10% LEL
- All Combustibles Removed Where Possible. Otherwise Protect with Fire-Resistant Tarps, Metal Shields, Wetting or Other Appropriate Means.
- All Wall and Floor Openings Covered (Includes Conveyors, Ducts, Pipes, Cracks).
- Fire-Resistant Tarps Suspended Beneath Elevated Work.

ENCLOSED EQUIPMENT - Tanks, Containers or Dust Collectors:

- Emptied, Cleaned, Purged or Otherwise Safeguarded.
- Confined Space Entry Identified & Entry Permit Issued.

DESIGNATED FIRE WATCH / HOT WORK AREA MONITORING:

- Fire Watch Provided During and For 30 Minutes After Hot Work (Including Breaks).
- Fire Watch Is Trained on Use of Fire Fighting Equipment and Emergency Notification.
- Fire Watch To Monitor Adjoining Areas Above and Below (If Applicable).

SURPLUS PRODUCT AND TANK SLUDGE MANAGEMENT

Eighteen drums of sludge and water were transported to the U.S. Oil Waste to Energy Plant in Kimberly, Wisconsin for treatment and disposal.

Contractor Storing Liquids/Sludges

Company Name:	<u>Mirro Corporation</u>
Company Address:	<u>2401 Mirro Drive, Manitowoc, Wisconsin 54221-1330</u>
Company Telephone No:	<u>(920) 684-3479</u>

Contractor Transporting Liquids/Sludges

Company Name:	<u>Environmental Services Plus</u>
Company Address:	<u>W1732 County Road KK, Kaukauna, WI 54130</u>
Company Telephone No:	<u>(920) 766-6756</u>

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

Shipper's No. _____

(Name of Carrier) Environmental Services Plus SCAC

Carrier's No. _____

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at _____ date _____ from _____

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to: _____ (Mail or street address of consignee - For purposes of notification only.)

U.S. Oil - Waste Oil to Energy

Destination: Kimberly State: WI County: Adams Zip: 54136 Delivery Address: 552 Carter Ct.

Route: _____ (*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier: _____ Car or Vehicle Initials: _____ No. _____

Number of Packages	Description of articles, special marks, and exceptions	*Weight (Sub. to correction)	Class or rate	Check column	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
18x55	fuel oil sludge				(Signature of consignor) _____ If charges are to be prepaid, write or stamp here, "To be Prepaid". Received \$ _____ to apply in prepayment of the charges on the property described hereon. Agent or Cashier _____ Per _____ (The signature here acknowledges only the amount prepaid.) Charges Advanced: \$ _____
	flash >140°, halogens <30 ppm				
	Profile AB1606				

Collect On Delivery and remit to _____ G.O.D. Charge to be paid by Shipper Consignee

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight". Note - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

HM EMERGENCY RESPONSE TELEPHONE NUMBER (317.2.604)

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per _____

Shipper: Mirra Co. Agent: Jim J. Love
 Per: 2401 Mirra Dr. Manitowoc, WI Date: _____ Per: Jim J. Love - Doug Rehn Date: 12/5/01

Permanent post-office address of shipper
 FORM NO. 1 BLS (Rev. 8/95)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2
 COPY

h

WASTE PROFILE

Expiration Date: _____

Check here if this is a recertification _____

Location of Original _____

U.S. Oil Co. Inc.

Site Approved _____

U.S. COOTE

GENERAL INFORMATION:

- 1. Generator Name Mirro Co - P1 + 2 Generator USEPA ID: Non-insulated
- 2. Generator Address 2401 Mirro Dr. Manitowoc, WI Billing Address () same _____
ESP
Attn. Jesse Rose
- 3. Technical Contact Phone: Jesse Rose 920-766-6756
- 4. Alternate Contact Phone: _____ Billing Contact Phone: _____

PROPERTIES AND COMPOSITION

- 5. Process Generating Waste: toxic closure
- 6. Waste Name: fuel oil sludge
- 7a. Is this a USEPA hazardous waste (40 CFR Part 261) Yes No
- 7b. Identify ALL USEPA listed and characteristic waste code numbers (D,F,P,U): _____
State waste codes: _____

- 8. Physical State @ 70°F: A. Solid () Liquid () Both B. Single Layer () Multilayer
C. Free liquid range ___ to ___ %
- 9. pH: range ___ to ___ or Not applicable () B. Strong Odor (); describe _____
- 10. Liquid Flash Point: <73°F () 73-99°F () 100-139°F () 140-199°F () ≥200°F () N.A.
() Closed Cup () Open Cup ()
- 11. CHEMICAL COMPOSITION: List ALL constituents (including halogenated organics) present in any concentration and forward available analysis.

CONSTITUENTS	RANGE	UNITS	CONSTITUENTS	RANGE	UNITS
fuel	40	%			
solids	50	%			
water	10	%			

COPY

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

- 12. Benzene is yes, concentration ___ ppm. Shock Sensitive () Oxidizer () Carcinogen () Infectious () Other _____
- 13. If the waste is subject to the land ban and meets the treatment standards, check here _____, and supply analytical results where applicable _____

SHIPPING INFORMATION:

- 14. Packaging: Bulk Solid () Bulk Liquid () Drum Type/Size 55 gal Other _____
- 15. ANTICIPATED ANNUAL VOLUME: 990 Units: gal Shipping Frequency: one time

SAMPLE INFORMATION:

- 16a. Sample source (drum, lagoon, pond, tank, vat, etc.) drums
Date Sampled: 8/17/01
Samplers Name/Company ESP
- 16b. GENERATOR'S Agent Supervising Sampling: _____
- 17. () No sample required (See Instructions)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40CFR 261-Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize U.S. Oil Co., Inc. to obtain a sample from any waste shipment for purposes of recertification.

Jesse Rose
Signature

Jesse Rose / MGR
Printed (or typed) name and title

12/5/01
Date

WEATHER, SOIL, AND GROUND-WATER CONDITIONS

Weather Conditions

Temperature: 75°
Precipitation: none
Wind: 0-10 mph

Surface Conditions

Material UST area overlain by (e.g., concrete) gravel and grass

Is the area around the fill pipe, pump, etc. visibly stained? If yes, describe
The area around the UST was not visibly stained.

Is stressed or dead vegetation evident?: No

Are there previously undiscovered or unregistered USTs? If yes, describe
Northern Environmental is unaware of any unregistered USTs at the Site.

Excavation and Soil

Depth of UST Excavation: 13 feet below grade
Depth of Piping Excavation: 4 feet below grade

Free Product Present: No Obvious Odors: Yes
Soil Discoloration: Yes

Oil Sheen on Water in Excavation: No

Soil Description:

Native: Sand
Backfill: Clay

Free Standing Water: No
Type (runoff, perched, ground water): N/A
Depth to Water (feet below grade): N/A

Depth to Ground-Water Level

8 feet below grade (measured from site monitoring wells)

Local Ground-Water Use

Local residents receive water from the city of Manitowoc's municipal distribution system.

ATTACHMENT A

**LABORTORY ANALYTICAL REPORTS,
CHECKLIST AND INVENTORY FORMS**

UNDERGROUND

FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK INVENTORY

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To:
Department of Commerce
Bureau of Storage Tank Regulation
P.O. Box 7837
Madison, WI 53707-7837

File by: _____
Reg Obj #: **414577**

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? Yes No If yes, are you correcting/updating information only? Yes No Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04 (1)(m)].

This registration applies to a tank that is (check one):
 In Use Closed - Tank Removed Ownership Change (Indicate new owner name in block 2)
 Newly Installed Closed - Filled with Inert Materials Temporarily Out of Service - Provide Date: _____
 Abandoned with Product Abandon with Water
 Abandoned without Product (empty)
Fire Department providing fire coverage where tank is located:
 City Village
 Town of _____

A. IDENTIFICATION (Please Print)

1. Tank Site Name: **MIRRO COMPANY** Site Address: **2401 MIRRO DRIVE** Site Telephone Number: **(920) 639-4421**
 City Village Town of: _____ State: **WISCONSIN** Zip Code: **54220** County: **MANITOWOC**

2. Tank Owner Name: **NEWELL RUBBERMAIS** Mailing Address: **6833 STALTER** Telephone Number: **815-381-8121**
 City Village Town of: _____ State: **IL** Zip Code: **61108** County: _____

3. Previous Name: _____ Previous site address if different than #1: _____

B. Site ID #: 112102 Facility ID #: _____ Customer ID #: **332634**

C. Tank Capacity (gallons): 20,000 Tank Age (age or date installed): **1958 INSTALLED**

D. LAND OWNER TYPE (check one)
 County Federal Leased Federal Owned Municipal Other Government
 Private State Tribal Nation

E. OCCUPANCY TYPE (check one)
 Gas/Retail Sales Bulk Storage Industrial Mercantile/Commercial Utility Residential School
 Agricultural (crop or livestock production) Backup or Emergency Generator Other (specify): _____

F. Tank Construction:
 Bare Steel Coated Steel Unknown
 Fiberglass Steel - Fiberglass Reinforced Plastic Composite
 Lined (date): _____ Other (specify): _____
Cathodic Protection
 Sacrificial Anodes Impressed Current N/A
Overfill Protection? Yes No
Spill Containment? Yes No
Tank Double Walled? Yes No

G. Primary Tank Leak Detection Method:
 Inventory control and tightness testing Automatic tank gauging Groundwater monitoring
 Manual tank gauging (only for tanks of 1,000 gallons or less) Interstitial monitoring Vapor monitoring
 Statistical Inventory Reconciliation (SIR) Unknown

H. Piping Construction:
 Bare Steel Coated Steel Unknown
 Fiberglass Flexible N/A
 Copper Other (specify): _____
Cathodic Protection
 Sacrificial Anodes Impressed Current N/A
Pipe Double Walled? Yes No

I. Primary Piping System Type: Pressurized piping with auto shutoff; B. alarm, or C. flow restrictor Unknown
 Suction piping with check valve at tank Suction piping with check valve at pump and inspectable Not needed if waste oil

J. Piping Leak Detection Method: (used if pressurized or check valve at tank): SIR Tightness testing Electronic line leak monitor
 Groundwater monitoring Vapor monitoring Interstitial monitoring Not required Unknown

K. Vapor Recovery/Stage II CARB #: _____
 Fiberglass Other (specify): _____ Flexible Operational - Provide Date (mo/day/yr): _____

L. TANK CONTENTS (Current or previous product if tank now empty)
 Diesel Leaded Unleaded Fuel Oil Gasohol
 Other (specify): _____ Empty Sand/Gravel/Sturry* Unknown* Premix
 Waste/Used Motor Oil Chemical Kerosene Aviation Hazardous Waste*
(Indicate chemical name and number)

* If chosen, this tank is NOT PECFA eligible.
M. If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): **AUG 15 2001** **Geo Latitude:** _____ **Geo Longitude:** _____
Has a site assessment been completed? (see reverse side for details)
 Yes No

Owner or Operator Name (please print): **Douglas E. Deaton** Indicate whether:
 Owner or Operator
Owner or Operator Signature: *Douglas E. Deaton* **Date Signed:** **8/15/01**

File by:
 Reg Obj #: 414376

UNDERGROUND FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK INVENTORY

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To:
 Department of Commerce
 Bureau of Storage Tank Regulation
 P.O. Box 7837
 Madison, WI 53707-7837

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? Yes No If yes, are you correcting/updating information only? Yes No Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04 (1)(m)].

This registration applies to a tank that is (check one):
 In Use Closed - Tank Removed Ownership Change (Indicate new owner name in block 2)
 Newly Installed Closed - Filled with Inert Materials Temporarily Out of Service - Provide Date:
 Abandoned with Product Abandon with Water
 Abandoned without Product (empty)
 Fire Department providing fire coverage where tank is located:
 City Village
 Town of

A. IDENTIFICATION (Please Print)

1. Tank Site Name: MIRRO COMPANY Site Address: 2401 MIRRO DRIVE Site Telephone Number: 920 1684 4921
 City Village Town of State: Wisconsin Zip Code: 54220 County: MANITOWISH

2. Tank Owner Name: RUBEN MANSO Mailing Address: 6233 STALTER DRIVE Telephone Number: 815-381-8121
 City Village Town of State: IL Zip Code: 61108 County:

3. Previous Name: _____ Previous site address if different than #1: _____

B. Site ID #: 112102 **Facility ID #:** _____ **Customer ID #:** 332634

C. Tank Capacity (gallons): 20,000 gpa **Tank Age (age or date installed):** 1958 INSTALLED

D. LAND OWNER TYPE (check one)
 County Federal Leased Federal Owned Municipal Other Government
 Private State Tribal Nation

E. OCCUPANCY TYPE (check one)
 Gas/Retail Sales Bulk Storage Industrial Mercantile/Commercial Utility Residential School
 Agricultural (crop or livestock production) Backup or Emergency Generator Other (specify): _____

F. Tank Construction:
 Bare Steel Coated Steel Unknown
 Fiberglass Steel - Fiberglass Reinforced Plastic Composite
 Lined (date): _____ Other (specify): _____
Cathodic Protection
 Sacrificial Anodes Impressed Current N/A
Overfill Protection? Yes No
Spill Containment? Yes No
Tank Double Walled? Yes No

G. Primary Tank Leak Detection Method:
 Inventory control and tightness testing Automatic tank gauging Groundwater monitoring
 Manual tank gauging (only for tanks of 1,000 gallons or less) Interstitial monitoring Vapor monitoring
 Statistical Inventory Reconciliation (SIR) Unknown

H. Piping Construction:
 Bare Steel Coated Steel Unknown
 Fiberglass Flexible N/A
 Copper Other (specify): _____
Cathodic Protection
 Sacrificial Anodes Impressed Current N/A
Pipe Double Walled? Yes No

I. Primary Piping System Type: Pressurized piping with auto shutoff; alarm, or flow restrictor Unknown
 Suction piping with check valve at tank Suction piping with check valve at pump and inspectable Not needed if waste oil

J. Piping Leak Detection Method: (used if pressurized or check valve at tank): SIR Tightness testing Electronic line leak monitor
 Groundwater monitoring Vapor monitoring Interstitial monitoring Not required Unknown

K. Vapor Recovery/Stage II CARB #: _____
 Fiberglass Other (specify): _____ Flexible Operational - Provide Date (mo/day/yr): _____

L. TANK CONTENTS (Current, or previous product if tank now empty)
 Diesel Leaded Unleaded Fuel Oil Gasohol
 Other (Specify): _____ Empty Sand/Gravel/Slurry* Unknown* Premix
 Waste/Used Motor Oil Chemical Kerosene Aviation Hazardous Waste*
 (Indicate chemical name and number)

* If chosen, this tank is NOT PECFA eligible. **Geo Latitude:** _____ **Geo Longitude:** _____

M. If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): AUG 15, 2001 **Has a site assessment been completed? (see reverse side for details)**
 Yes No

Owner or Operator Name (please print): Douglas E. Deaton **Indicate whether:**
 Owner or Operator
Owner or Operator Signature: Douglas E. Deaton **Date Signed:** 8/15/01

Complete one form for each site closure.

CHECKLIST FOR TANK CLOSURE

RETURN COMPLETED CHECKLIST TO:

The information you provide may be used for secondary purposes [Privacy Law, s.15.04 (1)(m)].

CHECK ONE
 UNDERGROUND
 ABOVEGROUND

FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE N/A BOX BELOW

Wisconsin Department of Commerce
 ERS Division
 Bureau of Storage Tank Regulation
 P.O. Box 7837
 Madison, WI 53707-7837

A. IDENTIFICATION: (Please Print) Indicate whether closure is for: Tank System Tank Only Piping Only

1. Site Name MIRRO COMPANY PLANT 02		2. Owner Name NEWELL RUBBERMAID	
Site Street Address (not P.O. Box) 2401 MIRRO DRIVE		Owner Street Address 6833 STALTER DRIVE	
<input checked="" type="checkbox"/> City MANITOWOC	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	
<input checked="" type="checkbox"/> City ROCKFORD	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	State IL
State WISCONSIN	Zip Code 54220	County MANITOWOC	Zip Code 61108
3. Closure Company Name (print) ENVIRONMENTAL SERVICES PLUS		Closure Company Street Address W1732 COUNTY RD KK	
Closure Company Telephone No. (include area code) (920) 766-6756		Closure Company City, State, Zip Code KAUKAUNA WI 54130	
4. Name of Company Performing Closure Assessment Northern Environmental		Assessment Company Street Address, City, State, Zip Code 954 Circle Drive Green Bay WI 54304	
Telephone No. (include area code) (920) 592-8400	Certified Assessor Name (print) Susan Knabe	Assessor Signature Sue Knabe	Assessor Certification No. 248630

Tank ID #	Closure	Temp. Closure	Closure in Place	Tank Capacity	Contents*	Closure Assessment	
1. 414576	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20,000	NO#2 F.O	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
2. 414577	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20,000	NO#2 F.O	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y	<input type="checkbox"/> N
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y	<input type="checkbox"/> N

* Indicate which product: Diesel; Leaded; Unleaded; Fuel Oil; Gasohol; Aviation Fuel; Kerosene; Premix; Waste/Used Motor Oil; Flammable/Combustible Hazardous Waste; Chemical (indicate the chemical name(s) _____ and CAS number(s) _____); Other _____

Written notification was provided to the local agent 15 days in advance of closure date. Y N NA
 All local permits were obtained before beginning closure. Y N NA

Check applicable box at right in response to all statements in Sections B-E.

B. TEMPORARILY OUT OF SERVICE

Written inspector approval of temporary closure obtained, which is effective until (provide date) _____

	Remover Verified	Inspector Verified	NA
1. Product Removed	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. All product removed to bottom of suction line, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. All product removed to within 1" of bottom.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Dispensers/pumps left in place but locked and power disconnected.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Vent lines left open.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Inventory form filed indicating temporary closure.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>

C. CLOSURE BY REMOVAL

1. Product from piping drained into tank (or other container).	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Piping disconnected from tank and removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.			
6. Vent lines left connected until tanks purged.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
9. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
10. Tank cleaned before being removed from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

C. CLOSURE BY REMOVAL (continued)

	Remover Verified	Inspector Verified	NA
11. Tank labeled in 2" high letters after removal but before being moved from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.			
12. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
13. Form ERS-7437 or ERS-8731 filed by owner with the Dept. of Commerce indicating closure by removal.....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
14. Site security is provided while the excavation is open.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

D. CLOSURE IN PLACE

NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF COMMERCE OR LOCAL AGENT.

1. Product from piping drained into tank (or other container):	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Piping disconnected from tank and removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. ...	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT. ABOVE GRADE.			
6. Vent lines left connected until tanks purged.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) see Section F.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
9. Tank properly cleaned to remove all sludge and residue.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
11. Vent line disconnected or removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
12. Inventory form filed by owner with the Department of Commerce indicating closure in place.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

E. CLOSURE ASSESSMENTS

NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO COMM 10.

1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Do points of obvious contamination exist?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
3. Are there strong odors in the soils?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
4. Was a field screening instrument used to pre-screen soil sample locations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
5. Was a closure assessment omitted because of obvious contamination?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
6. Was the DNR notified of suspected or obvious contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
Agency, office and person contacted: <u>DNK, Cathy Eadredt</u>			
7. Contamination suspected because of: <input type="checkbox"/> Odor <input type="checkbox"/> Soil Staining <input checked="" type="checkbox"/> Free Product <input type="checkbox"/> Sheen on Groundwater <input checked="" type="checkbox"/> Field Instrument Test			

F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

- Eductor Or Diffused Air Blower
Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground. Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.
- Dry Ice
Dry Ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area Dry ice evaporated before proceeding.
- Inert Gas (CO₂ or N₂) **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.**
Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.
Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.
- Tank atmosphere monitored for flammable or combustible vapor levels.
Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank from ground.

G. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW

No inspection @ site.

H. REMOVER/CLEANER INFORMATION

JESSE R ROSE
Remover Name (print)

[Signature]
Remover Signature

4/240
Remover Certification No.

8-15-0
Date Signed

I. INSPECTOR INFORMATION

Inspector Name (print)

Inspector Signature

Inspector Certification No.

FDID # For Location Where Inspection Performed

Inspector Telephone Number

Date Signed

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5034385A						Sample Type	Soil	
Sample ID	S13						Sample Date	8/14/01	

Inorganic

General

Solids Percent	79	%			1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	120	mg/kg	0.38	1.3	1	8/22/01	DRO95	JDB	1
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PAH's

Acenaphthene	< 35	ug/kg	13	43	1	9/12/01	M8270	DJM	1
Acenaphthylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Anthracene	200	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Benzo(a)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(a)pyrene	< 17	ug/kg	17	57	1	9/12/01	M8270	DJM	1
Benzo(b)fluoranthene	< 24	ug/kg	24	80	1	9/12/01	M8270	DJM	1
Benzo(g,h,i)perylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(k)fluoranthene	< 37	ug/kg	37	120	1	9/12/01	M8270	DJM	1
Chrysene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Dibenzo(a,h)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluoranthene	23 "J"	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluorene	350	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Indeno(1,2,3-cd)pyrene	< 13	ug/kg	13	43	1	9/12/01	M8270	DJM	1
1-Methyl naphthalene	340	ug/kg	10	33	1	9/12/01	M8270	DJM	1
2-Methyl naphthalene	89	ug/kg	17	57	1	9/12/01	M8270	DJM	2
Naphthalene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	2
Phenanthrene	410	ug/kg	12	40	1	9/12/01	M8270	DJM	1
Pyrene	87	ug/kg	13	43	1	9/12/01	M8270	DJM	1

PVOC

Benzene	< 25	ug/kg	15	48	1	8/29/01	GRO95	CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/29/01	GRO95	CJR	1
MTBE	< 25	ug/kg	10	33	1	8/29/01	GRO95	CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/29/01	GRO95	CJR	1
1,2,4-Trimethylbenzene	140	ug/kg	24	77	1	8/29/01	GRO95	CJR	1
1,3,5-Trimethylbenzene	110	ug/kg	15	48	1	8/29/01	GRO95	CJR	1
Xylene's	< 75	ug/kg	18	60	1	8/29/01	GRO95	CJR	1

Check office originating request

1214 W. Venture Ct.
Mequon, WI 53092
262-241-3133
FAX 262-241-8222

372 West County Road D
New Brighton, MN 55112
651-635-9100
FAX 651-635-0643

954 Circle Drive
Green Bay, WI 54304
920-592-8400
FAX 920-592-8444

330 South 4th Avenue
Park Falls, WI 54552
715-762-1544
FAX 715-762-1844

Lab ID# 5034385

1203 Storbeck Drive
Waupun, WI 53993
920-324-8600
FAX 920-324-3023

3211 Arnold Lane
Northbrook, IL 60062
847-562-8577
FAX 847-562-8552

112 7th Street NE
Rochester, MN 55906
507-282-3800
FAX 507-282-3100

31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530

Project No: <u>ESP 03-2200-1267</u> Task No: <u>50</u>		Laboratory: <u>U.S. Oil</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Method of shipment: <u>Ground</u> Contents Temperature: _____ °C Refrigerator No. <u>✓</u>											
Project Location: (city) <u>Manitowoc</u>		Wisconsin DNR Certification #: <u>445027660</u>		ANALYSES REQUESTED											
Project Manager: <u>Lynelle Caine</u>		Laboratory Contact: <u>Mike Ricker</u>													
Sampler: (name) <u>Susan Knabe</u>		Price Quote:		TURNAROUND TIME REQUIRED <input checked="" type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush <u>Water only</u> Date Needed <u>8-20-01</u>											
Sampler: (Signature) <u>Sue Knabe</u>															
Sampling Date(s): <u>8-14-01</u>															
Reports to be Sent to: <u>Sue Knabe</u>															
Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DFO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	P/VOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)
		Date	Time		Water	Soil	Other								
<u>5034385A</u>	<u>S13</u>	<u>8-14-01</u>	<u>1214</u>	<u>2-40ml, 1-2oz</u>		<u>X</u>		<u>Ice</u>	<u>X</u>			<u>X</u>		<u>X</u>	
	<u>B/S10</u>		<u>946</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>C/S25</u>		<u>1540</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>DA/S8</u>		<u>944</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>E/S26</u>		<u>1604</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>F/S15</u>		<u>1216</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>G/S19</u>		<u>1220</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>H/S1</u>		<u>910</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>I/S5</u>		<u>943</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>J/S24</u>		<u>1527</u>			<u>X</u>			<u>X</u>			<u>X</u>			
Packed for Shipping by: <u>Sue Knabe</u>				Comments: <u>Called to confirm jar labelled S24 but in S25 bag was for S25 sample. csm 8/16/01 csm</u>											
Shipment Date: <u>8-16-01</u>															
Relinquished By: <u>MB Piquette</u>		Date: <u>8-16-01</u>		Relinquished By: <u>Chy Piquette</u>		Date: <u>8/16/01</u>		Relinquished By:		Date:		Relinquished By:		Date:	
Company: <u>Northern Environmental</u>		Time: <u>0740</u>		Company: <u>U.S. Oil</u>		Time: <u>18:45</u>		Company:		Time:		Company:		Time:	
Received By: <u>Chy Piquette</u>		Date: <u>8-16-01</u>		Received By: <u>Katie Asman</u>		Date: <u>8-16-01</u>		Received By:		Date:		Received By:		Date:	
Company: <u>US OA</u>		Time: <u>0740</u>		Company: <u>US Oil</u>		Time: <u>18:45</u>		Company:		Time:		Company:		Time:	

Check office originating request

1214 W. Venture Ct.
Mequon, WI 53092
262-241-3133
FAX 262-241-8222

372 West County Road D
New Brighton, MN 55112
651-635-9100
FAX 651-635-0643

954 Circle Drive
Green Bay, WI 54304
920-592-8400
FAX 920-592-8444

330 South 4th Avenue
Park Falls, WI 54552
715-762-1544
FAX 715-762-1844

Lab ID# 5034385

1203 Storbeck Drive
Waupun, WI 53963
920-324-8600
FAX 920-324-3023

3211 Arnold Lane
Northbrook, IL 60062
847-562-8577
FAX 847-562-8552

112 7th Street NE
Rochester, MN 55906
507-282-3800
FAX 507-282-3100

31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530

Project No: ESP 03-2200-1267 Task No: 50 Laboratory: U.S. Oil
 Project Location: Manitowoc Wisconsin DNR Certification #: 44502766D
 Project Manager: Lynelle Caine Laboratory Contact: Mike Ricker
 Sampler: Susan Knabe Price Quote:
 Sampler: Sue Knabe **TURNAROUND TIME REQUIRED**
 Sampling Date(s): 8-14-01 Normal Rush water only
 Reports to be Sent to: Sue Knabe Date Needed: _____

Sample Integrity - To be completed by receiving lab
 Seal intact upon receipt Yes No
 Method of shipment Express
 Contents Temperature _____ °C Refrigerator No. _____

ANALYSES REQUESTED

Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO (WI Method 8020)	GRO (WI Method 8020)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)
		Date	Time		Water	Soil	Other								
<u>5034385K</u>	<u>S14</u>	<u>8-14-01</u>	<u>1215</u>	<u>2-40ml, 1-2oz</u>		<u>X</u>		<u>ice</u>	<u>X</u>			<u>X</u>			
	<u>L, S12</u>		<u>1213</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>M, S20*</u>		<u>1405</u>			<u>X</u>			<u>X</u>						
	<u>N, S21*</u>		<u>1406</u>			<u>X</u>			<u>X</u>						
	<u>O, S22*</u>		<u>1450</u>			<u>X</u>			<u>X</u>						
	<u>P, S23*</u>		<u>1451</u>			<u>X</u>			<u>X</u>						
	<u>Q, Tanker sample</u>	<u>8-14-01</u>	<u>1648</u>	<u>3-40ml, 1-1L</u>	<u>X</u>			<u>HCl, ice</u>				<u>X</u>	<u>X</u>		

Packed for Shipping by: Sue Knabe Comments: * If DRD detected at greater than 100ppm, then run PVOCs.
 Shipment Date: 8-16-01

Relinquished By: <u>MB Popowski</u>	Date: <u>8-16-01</u>	Relinquished By: <u>Chy Popowski</u>	Date: <u>8/16/01</u>	Relinquished By:	Date:
Company: <u>Northern Environmental</u>	Time: <u>0740</u>	Company: <u>U.S. Oil</u>	Time: <u>18:45</u>	Company:	Time:
Received By: <u>Chy Popowski</u>	Date: <u>8-16-01</u>	Received By: <u>Tyric Asman</u>	Date: <u>8/16/01</u>	Received By:	Date:
Company: <u>US Oil</u>	Time: <u>0740</u>	Company: <u>US Oil</u>	Time: <u>18:45</u>	Company:	Time:

ATTACHMENT B
GROUNDWATER DISPOSAL DOCUMENTATION
AND
LABORATORY ANALYTICAL REPORTS

STRAIGHT BILL OF LADING - SHORT FORM - Original - Not Negotiable

Shipper's No. _____

(Carrier) GENE FREDERICKSON TRK SCAC: _____

Carrier's No. _____

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at WITBZ COUNTR RD KK, KAN/KAN, date 9-5-01 from _____

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee for purposes of notification only.)
 TO: HEADQ OF THE VALLEY
 Consignee METRO SEWERAGE DISTRICT
 Street
 Destination TH. MANN ROAD Zip _____

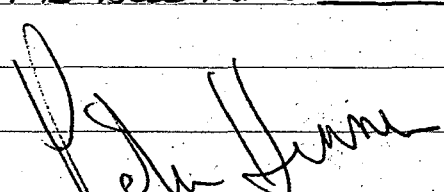
FROM: MIRRO COMPANY PLANT 2
 Shipper
 Street 2401 MIRRO DRIVE
 Origin MANITOWOC WI Zip _____

Route: KAJIBANA WW 54130

Delivering Carrier _____

Trailer Initial/Number _____

U.S. DOT Hazmat Reg. Number _____

No. of packages	HM	Description of articles, special marks, and exceptions	Hazard Class	I.D. Number	Packing Group	*Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
		<u>IMPACTED GROUND WATER</u>							
		<u>ROOM PLANT 02</u>							
		<u>REMOVAL OF (2) 20K USA</u>							
		<u>DELIVERED 9-7-01</u>							
		<u>TOTAL GALLONS 4700</u>							
		<u>HUMS ACCEPTANCE</u>							
									

Remit C.O.D. to:

Address: _____

City: _____

State: _____

Zip: _____

COD AMT:

\$ _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C. O. D. FEE:

Prepaid

Collect \$ _____

Charges Advanced

\$ _____

FREIGHT CHARGES

Prepaid Collect

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight". Note - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

PLACARDS REQUIRED

PLACARDS SUPPLIED

YES NO - FURNISHED BY CARRIER
 DRIVER'S SIGNATURE: _____

SHIPPER: MIRRO COMPANY

PER: DOUG DEDTON

DATE: 9-5-01

CARRIER: GENE FREDERICKSON TRUCKING

PER: John J. Ver

DATE: _____

EMERGENCY RESPONSE

TELEPHONE NUMBER: () 920-766-6756

Permanent post office address of shipper _____

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.604)

COPY

*** The following load(s) from the date(s) listed below are being billed separately, due to their strengths exceeding the Holding Tank Strengths, as listed in the Metro's Sewer Use Ordinance or that the load was marked as waste other than Holding Tank Waste (Example: Septic Waste, Contaminated Groundwater). The Billing Amount is the total charge per load on the date listed. These strengths are billed separately and are not used when averaging the Holding Tank Strengths used for monthly billing purposes.

Holding Tank Limits are as follow B.O.D. of 600 mg/L
Suspended Solids of 1,800 mg/L
Phosphorus of 30 mg/L

<u>Date</u>	<u>Gallons</u>	<u>Parameter Exceeded</u>	<u>Billing Amount</u>
Sep 7	4,700	(Contaminated Groundwater) [Mirro Company - Manitowoc]	

Jesse

SubTotal =

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	50343850								
Sample ID	S22								
Sample Type	Soil								
Sample Date	8/14/01								

Inorganic

General

Solids Percent	82.6	%				1	8/17/01	5021	JDB	1
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Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	1	8/24/01	DRO95	KAH	1
-----------------------	------	-------	------	-----	---	---	---------	-------	-----	---

Lab Code	5034385P									
Sample ID	S23									
Sample Type	Soil									
Sample Date	8/14/01									

Inorganic

General

Solids Percent	83.9	%				1	8/17/01	5021	JDB	1
----------------	------	---	--	--	--	---	---------	------	-----	---

Organic

General

Diesel Range Organics	< 10	mg/kg	0.38	1.3	1	1	8/24/01	DRO95	KAH	1
-----------------------	------	-------	------	-----	---	---	---------	-------	-----	---

Lab Code	5034385Q									
Sample ID	TANKER									
Sample Type	Water									
Sample Date	8/14/01									

Organic

PAH's

Acenaphthene	6.5	ug/l	1.7	5.5	10		8/24/01	8310	DJM	2
Acenaphthylene	< 10	ug/l	10	32	10		8/24/01	8310	DJM	2
Anthracene	1.7	ug/l	0.1	0.33	10		8/24/01	8310	DJM	1
Benzo(a)anthracene	3.1	ug/l	0.74	2.5	10		8/24/01	8310	DJM	1
Benzo(a)pyrene	3.2 "J"	ug/l	1	3.4	10		8/24/01	8310	DJM	1
Benzo(b)fluoranthene	2.8	ug/l	0.65	2.2	10		8/24/01	8310	DJM	1
Benzo(g,h,i)perylene	< 5.2	ug/l	5.2	17	10		8/24/01	8310	DJM	2
Benzo(k)fluoranthene	1.3	ug/l	0.1	0.33	10		8/24/01	8310	DJM	1
Chrysene	< 7	ug/l	7	24	10		8/24/01	8310	DJM	1
Dibenzo(a,h)anthracene	< 4.2	ug/l	4.2	14	10		8/24/01	8310	DJM	2
Fluoranthene	110 "J"	ug/l	36	120	100		8/30/01	8310	DJM	1
Fluorene	7.1 "J"	ug/l	3.3	11	10		8/24/01	8310	DJM	2
Indeno(1,2,3-cd)pyrene	< 5.9	ug/l	5.9	20	10		8/24/01	8310	DJM	1
1-Methyl naphthalene	72	ug/l	2.1	7	10		8/24/01	8310	DJM	2
2-Methyl naphthalene	74	ug/l	2	6.7	10		8/24/01	8310	DJM	2

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5034385Q						Sample Type	Water	
Sample ID	TANKER						Sample Date	8/14/01	
Naphthalene	17	ug/l	2.2	7.4	10	8/24/01	8310	DJM	2
Phenanthrene	34	ug/l	0.37	1.2	10	8/24/01	8310	DJM	1
Pyrene	7.5	ug/l	0.59	2	10	8/24/01	8310	DJM	2
PVOC									
Benzene	0.41 "J"	ug/l	0.21	0.67	1	8/20/01	8021A	CAH	1
Ethylbenzene	7.2	ug/l	0.22	0.7	1	8/20/01	8021A	CAH	1
MTBE	< 0.46	ug/l	0.46	1.5	1	8/20/01	8021A	CAH	1
Toluene	3.4	ug/l	0.41	1.3	1	8/20/01	8021A	CAH	1
1,2,4-Trimethylbenzene	42	ug/l	0.26	0.84	1	8/20/01	8021A	CAH	1
1,3,5-Trimethylbenzene	14	ug/l	0.34	1.1	1	8/20/01	8021A	CAH	1
m&p-Xylene	21	ug/l	0.43	1.4	1	8/20/01	8021A	CAH	1
o-Xylene	11	ug/l	0.26	0.82	1	8/20/01	8021A	CAH	1

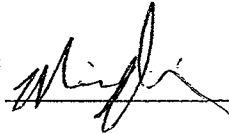
LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code	Comment
1	All laboratory QC requirements were met for this sample.
2	The duplicate RPD failed to meet acceptable QC limits.
44	Chromatogram indicates possible lube oil contamination.

Authorized Signature



Check office originating request

- 1214 W. Venture Ct.
Mequon, WI 53092
262-241-3133
FAX 262-241-8222
- 372 West County Road D
New Brighton, MN 55112
651-635-9100
FAX 651-635-0643
- 954 Circle Drive
Green Bay, WI 54304
920-592-8400
FAX 920-592-8444
- 330 South 4th Avenue
Park Falls, WI 54552
715-762-1544
FAX 715-762-1844
- 1203 Storbeck Drive
Waupun, WI 53963
920-324-8600
FAX 920-324-3023
- 3211 Arnold Lane
Northbrook, IL 60062
847-562-8577
FAX 847-562-8552
- 112 7th Street NE
Rochester, MN 55906
507-282-3800
FAX 507-282-3100
- 31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530

Lab ID # 5034385

Project No: ESP 03-2200-1267 Task No: 50 Laboratory: U.S. Oil Sample Integrity - To be completed by receiving lab
 Project Location: Manitowoc Wisconsin DNR Certification #: 445027660 Seal intact upon receipt Yes No
 Project Manager: Lynelle Caine Laboratory Contact: Mike Ricker Method of shipment Carrier
 Sampler: Susan Knabe Price Quote: Contents Temperature _____ °C Refrigerator No. ✓
 Sampler: Sue Knabe **TURNAROUND TIME REQUIRED**
 Sampling Date(s): 8-14-01 Soil Normal Rush Water only
 Reports to be Sent to: Sue Knabe Date Needed 8-20-01

ANALYSES REQUESTED

Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO (WI Method 8020)	GRO (WI Method 8020)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)
		Date	Time		Water	Soil	Other								
<u>5034385A</u>	<u>S13</u>	<u>8-14-01</u>	<u>1214</u>	<u>2-40ml, 1-2oz</u>		<input checked="" type="checkbox"/>		<u>Ice</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	<u>B, S10</u>		<u>946</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	
	<u>C, S25</u>		<u>1540</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	
	<u>D, S8</u>		<u>944</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						
	<u>E, S26</u>		<u>1604</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						
	<u>F, S15</u>		<u>1216</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						
	<u>G, S19</u>		<u>1220</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						
	<u>H, S1</u>		<u>910</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						
	<u>I, S5</u>		<u>943</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						
	<u>J, S24</u>		<u>1527</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						

Packed for Shipping by: Sue Knabe Comments: Called to confirm you labelled S34 but in S25 bag was for S25 sample. com 8/16/01
 Shipment Date: 8-16-01

Relinquished By: <u>MB Roper</u> Company: <u>Northern Environmental</u> Received By: <u>Chay Piquette</u> Company: <u>US Oil</u>	Date: <u>8-16-01</u> Time: <u>0740</u> Date: <u>8-16-01</u> Time: <u>0740</u>	Relinquished By: <u>Chay Piquette</u> Company: <u>US Oil</u> Received By: <u>Rodie Asman</u> Company: <u>US Oil</u>	Date: <u>8/16/01</u> Time: <u>18:45</u> Date: <u>8-16-01</u> Time: <u>18:45</u>	Relinquished By: _____ Company: _____ Received By: _____ Company: _____	Date: _____ Time: _____ Date: _____ Time: _____
---	--	--	--	--	--

Check office originating request

- | | | | |
|--|---|---|--|
| <input type="checkbox"/> 1214 W. Venture Ct.
Mequon, WI 53092
262-241-3133
FAX 262-241-8222 | <input type="checkbox"/> 372 West County Road D
New Brighton, MN 55112
651-635-9100
FAX 651-635-0643 | <input checked="" type="checkbox"/> 954 Circle Drive
Green Bay, WI 54304
920-592-8400
FAX 920-592-8444 | <input type="checkbox"/> 330 South 4th Avenue
Park Falls, WI 54552
715-762-1544
FAX 715-762-1844 |
| <input type="checkbox"/> 1203 Storbeck Drive
Waupun, WI 53963
920-324-8600
FAX 920-324-3023 | <input type="checkbox"/> 3211 Arnold Lane
Northbrook, IL 60062
847-562-8577
FAX 847-562-8552 | <input type="checkbox"/> 112 7th Street NE
Rochester, MN 55906
507-282-3800
FAX 507-282-3100 | <input type="checkbox"/> 31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530 |

Lab ID# 5034385

Project No: <u>ESP 03-2200-1267</u> Task No: <u>50</u>		Laboratory: <u>U.S. Oil</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											
Project Location (city): <u>Manitowoc</u>		Wisconsin DNR Certification #: <u>44502766D</u>		Method of shipment: <u>Overnight</u>											
Project Manager: <u>Lynelle Caine</u>		Laboratory Contact: <u>Mike Ricker</u>		Contents Temperature: _____ °C Refrigerator No. _____											
Sampler (name): <u>Susan Knabe</u>		Price Quote:		ANALYSES REQUESTED											
Sampler (Signature): <u>Sue Knabe</u>		TURNAROUND TIME REQUIRED		RUSH											
Sampling Date(s): <u>8-14-01</u>		<input checked="" type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush <u>water only</u> <u>soil</u>													
Reports to be Sent to: <u>Sue Knabe</u>		Date Needed: _____													
Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO (WI Method 8020)	GRO (WI Method 8020)	BETX (WI Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)
		Date	Time		Water	Soil	Other								
<u>5034385K</u>	<u>S14</u>	<u>8-14-01</u>	<u>1215</u>	<u>2-40ml, 1-2oz</u>		<u>X</u>		<u>ice</u>	<u>X</u>			<u>X</u>			
	<u>L, S12</u>		<u>1213</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>M, S20*</u>		<u>1405</u>			<u>X</u>			<u>X</u>						
	<u>N, S21*</u>		<u>1406</u>			<u>X</u>			<u>X</u>						
	<u>O, S22*</u>		<u>1450</u>			<u>X</u>			<u>X</u>						
	<u>P, S23*</u>		<u>1451</u>			<u>X</u>			<u>X</u>						
	<u>Q, Tanker sample</u>	<u>8-14-01</u>	<u>1648</u>	<u>3-40ml, 1-1L</u>	<u>X</u>			<u>HCl, ice</u>				<u>X</u>		<u>X</u>	
Packed for Shipping by: <u>Sue Knabe</u>		Comments: <u>* IF DRD detected at greater than 100ppm, then run PVOCs.</u>													
Shipment Date: <u>8-16-01</u>															
Relinquished By: <u>MB Thompson</u>		Date: <u>8-16-01</u>		Relinquished By: <u>Clay Piquette</u>		Date: <u>8/16/01</u>		Relinquished By:		Date:		Relinquished By:		Date:	
Company: <u>Northern Environmental</u>		Time: <u>0740</u>		Company: <u>U.S. Oil</u>		Time: <u>18:45</u>		Company:		Time:		Company:		Time:	
Received By: <u>Clay Piquette</u>		Date: <u>8-16-01</u>		Received By: <u>TRIC Asman</u>		Date: <u>8/16/01</u>		Received By:		Date:		Received By:		Date:	
Company: <u>U.S. Oil</u>		Time: <u>0740</u>		Company: <u>U.S. Oil</u>		Time: <u>18:45</u>		Company:		Time:		Company:		Time:	

RECEIVED

JAN 30 2002

ERS DIVISION
OSHKOSH

954 Circle Drive
Green Bay, WI 54304
920-592-8400
1-800-854-0606
Fax • 920-592-8444
E-mail • netigb@admin.itol.com

January 8, 2002
(ESP-03-2200-1267)

Mr. Keld Lauridsen
Wisconsin Department of Natural Resources
1125 North Military Avenue
Post Office 10448
Green Bay, Wisconsin 54307



RE: Disposal of Stockpiles Soil, Mirro Company Plant #02, 2401 Mirro Drive, Manitowoc,
Wisconsin 54166; BRRTs ID #03-36-280532

Dear Mr. Lauridsen:

Per our conversation Northern Environmental Technologies, Inc. (Northern Environmental) is providing documentation of the disposal of the stockpiled soil at Mirro Plant #02, 2401 Mirro Drive, Manitowoc, Wisconsin (the Site). During August 2001, 2-20,000-gallon fuel oil underground storage tanks (USTs) were removed from the Site. During the UST closure assessment, slight petroleum odors and slightly elevated photoionization detector (PID) readings were observed in the soil surrounding the USTs. Based on the field screening results, soil that appeared to be potentially impacted from the petroleum release was excavated and temporarily stockpiled on-site. Approximately 100 yards of soil was stockpiled adjacent to the former UST locations, placed on and covered with plastic.

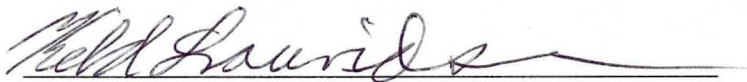
During the soil excavation on August 14, 2001, the soil sample (S13) exhibiting the highest PID reading was submitted for laboratory analysis for waste characterization purposes. Results of laboratory analysis detected concentrations of diesel range organics (DRO), trimethylbenzenes, and several polycyclic aromatic hydrocarbons (PAHs) in the soil sample. Based on the results of previous investigations completed at Mirro Plant #02, the native soil consists predominantly of silty clay and is considered a less permeable soil. Under Section NR 720 Wisconsin Administrative Code (Wis. Adm. Code), generic residual cleanup levels (RCLs) for less permeable soil have been established for DRO at 250 milligrams per kilogram (mg/kg). Based upon this level, the DRO concentration detected in S13 (120 mg/kg DRO) is below NR720 Wis. Adm. Code generic RCLs. The concentrations of trimethylbenzenes and PAHs detected in S13 were compared to the Table 1 and 2 values established in NR746 Wis. Adm. Code and the table values listed in the Wisconsin Department of Natural Resources (WDNR) Interim Guidance for Soil Cleanup Levels for PAHs. None of the petroleum constituents detected in S13 were above these values.


On November 28, 2001, a second sample was collected from the stockpiled soil to confirm the laboratory results. Soil sample SP1 was collected and submitted for laboratory analysis of DRO and petroleum volatile organic compounds (PVOCs). DRO and PVOCs were not detected above laboratory method detection limits in SP1. Copies of the laboratory analytical results are attached.



Based on the laboratory analytical results of soil samples S13 and SP1, Northern Environmental believes the stockpiled soil can be properly disposed of by thin spreading it on site. The soil would be spread in the vicinity of the former fuel oil USTs. Given that the concentrations detected in the soil are below Wis. Adm. Code standards for protection from direct contact exposure and ground water quality impacts, additional soil sampling should not be necessary.

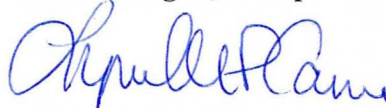
If you agree that the soil pile can be thinspread on-site, please indicate your approval by signing below. Please return a signed copy in the envelope supplied.


Signature


Date

If you have any questions regarding this submittal, please contact us at 920-592-8400.

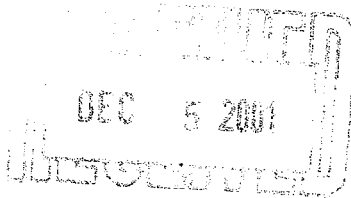
Sincerely,
**Northern Environmental
Technologies, Incorporated**



Lynelle P. Caine
Project Manager

LPC/hmo
Attachment

c: Mr. Doug Deaton, Mirro Company



1230 Lange Court
 Baraboo, WI 53913-3109
 Phone: (800) 228-3012
 Fax: (608) 356-2766
 www.ctlaboratories.com

ORIGINAL

ANALYTICAL REPORT

1 of 1

NORTHERN ENVIRONMENTAL
 ANN KRZYZEWSKI
 954 CIRCLE DRIVE
 GREEN BAY, WI 54304


Project Name: MANITOWOC
 Contract #: 1595
 Project #: ESP-1267
 Folder #: 22187
 Purchase Order #: INV 22148
 Arrival Temperature: See COC
 Report Date: 12/4/01
 Date Received: 11/29/01
 Reprint Date:

CTI LAB#:	99008	Sample Description:	SP1	Sampled:	11/28/01	1125
-----------	-------	---------------------	-----	----------	----------	------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date	Analysis Date	Analyst	Method
Solids, Percent	84.1	%	N/A	N/A	1			12/3/01	SET	EPA 5030A
Organic Results										
Diesel Range Organics	<3.2	mg/kg	3.2	10	1		12/3/01	12/4/01	KJJ	WDNR DRO
Benzene	<25	ug/kg	10	34	1		11/30/01	12/1/01	PRH	EPA 8020
Ethylbenzene	<25	ug/kg	13	44	1		11/30/01	12/1/01	PRH	EPA 8020
Methyl tert-butyl ether	<25	ug/kg	12	39	1		11/30/01	12/1/01	PRH	EPA 8020
Toluene	<25	ug/kg	11	38	1		11/30/01	12/1/01	PRH	EPA 8020
1,2,4-Trimethylbenzene	<25	ug/kg	12	39	1		11/30/01	12/1/01	PRH	EPA 8020
1,3,5-Trimethylbenzene	<25	ug/kg	13	42	1		11/30/01	12/1/01	PRH	EPA 8020
m & p-Xylene	<25	ug/kg	24	79	1		11/30/01	12/1/01	PRH	EPA 8020
o-Xylene	<25	ug/kg	14	46	1		11/30/01	12/1/01	PRH	EPA 8020

Notes: * Indicates Value in between LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by:  _____

Record Reviewer

WI DNR Lab Certification Number: 15-7066030
 DATCP Certification Number: 105-000289

Solid sample results reported on a Dry Weight Basis

Check office originating request

1214 W. Venture Ct.
Mequon, WI 53092
262-241-3133
FAX 262-241-8222

372 West County Road D
New Brighton, MN 55112
651-635-9100
FAX 651-635-0643

954 Circle Drive
Green Bay, WI 54304
920-592-8400
FAX 920-592-8444

330 South 4th Avenue
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1203 Storbeck Drive
Waupun, WI 53963
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3211 Arnold Lane
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FAX 847-562-8552

112 7th Street NE
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507-282-3800
FAX 507-282-3100

31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530

Project No: <u>ESP-1267</u>		Task No:		Laboratory: <u>L. T. Labs</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input type="checkbox"/> yes <input type="checkbox"/> no															
Project Location: <u>Manitowoc</u>		Wisconsin DNR Certification #: <u>157066230</u>		Laboratory Contact: <u>Eric Korthals</u>		Method of shipment _____ Contents Temperature _____ °C Refrigerator No. _____															
Project Manager: <u>Cynelle Caine</u>		Price Quote:		Date Needed: <u>12-5-01</u>		ANALYSES REQUESTED															
Sampler: <u>Kevin Eibenholz</u>		TURNAROUND TIME REQUIRED <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush				DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)									
Sampler: <u>[Signature]</u>																					
Sampling Date(s): <u>11-28-01</u>																					
Reports to be sent to: <u>A Krzyzewski</u>		Collection		Description																	
Lab ID No.	Sample No.	Date	Time	No. of Containers, Size & Type	Water	Soil	Other	Preservative													
	<u>SP1</u>	<u>11-28-01</u>	<u>1125</u>	<u>2-60mL, 14oz</u>		<u>X</u>		<u>meth</u>	<u>X</u>		<u>X</u>										
***** Folder #: <u>22187</u> Company: <u>NORTHERN ENVIRON.</u> Project: <u>MANITOWOC</u> Logged By: <u>DAB</u> PM: <u>ETK</u> *****												ICE PRESENT: <u>YES</u> NO									
***** DATE <u>29-Nov-01</u> TIME <u>15:55</u> *****												TEMPERATURE <u>27</u> °C									
***** INITIALS <u>DAB</u> *****																					
Packed for Shipping by:				Comments:																	
Shipment Date:																					
Relinquished By: <u>[Signature]</u>		Date: <u>11-28-01</u>		Relinquished By:		Date:		Relinquished By:		Date:											
Company: <u>NETI</u>		Time: <u>1628</u>		Company:		Time:		Company:		Time:											
Received By: <u>[Signature]</u>		Date: <u>29-Nov-01</u>		Received By:		Date:		Received By:		Date:											
Company: <u>CTLABS</u>		Time: <u>16:22</u>		Company:		Time:		Company:		Time:											

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5034385A								
Sample ID	S13								
Sample Type	Soil								
Sample Date	8/14/01								

Inorganic

General

Solids Percent	79	%			1	8/17/01	5021	JDB	1
----------------	----	---	--	--	---	---------	------	-----	---

Organic

General

Diesel Range Organics	120	mg/kg	0.38	1.3	1	8/22/01	DRO95	JDB	1
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PAH's

Acenaphthene	< 35	ug/kg	13	43	1	9/12/01	M8270	DJM	1
Acenaphthylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Anthracene	200	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Benzo(a)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(a)pyrene	< 17	ug/kg	17	57	1	9/12/01	M8270	DJM	1
Benzo(b)fluoranthene	< 24	ug/kg	24	80	1	9/12/01	M8270	DJM	1
Benzo(g,h,i)perylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(k)fluoranthene	< 37	ug/kg	37	120	1	9/12/01	M8270	DJM	1
Chrysene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Dibenzo(a,h)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluoranthene	23 "J"	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluorene	350	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Indeno(1,2,3-cd)pyrene	< 13	ug/kg	13	43	1	9/12/01	M8270	DJM	1
1-Methyl naphthalene	340	ug/kg	10	33	1	9/12/01	M8270	DJM	1
2-Methyl naphthalene	89	ug/kg	17	57	1	9/12/01	M8270	DJM	2
Naphthalene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	2
Phenanthrene	410	ug/kg	12	40	1	9/12/01	M8270	DJM	1
Pyrene	87	ug/kg	13	43	1	9/12/01	M8270	DJM	1

PVOC

Benzene	< 25	ug/kg	15	48	1	8/29/01	GRO95	CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/29/01	GRO95	CJR	1
MTBE	< 25	ug/kg	10	33	1	8/29/01	GRO95	CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/29/01	GRO95	CJR	1
1,2,4-Trimethylbenzene	140	ug/kg	24	77	1	8/29/01	GRO95	CJR	1
1,3,5-Trimethylbenzene	110	ug/kg	15	48	1	8/29/01	GRO95	CJR	1
Xylene's	< 75	ug/kg	18	60	1	8/29/01	GRO95	CJR	1

Check office originating request

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FAX 920-592-8444

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Park Falls, WI 54552
715-762-1544
FAX 715-762-1844

Lab ID# 5034385

1203 Storbeck Drive
Waupun, WI 53983
920-324-8600
FAX 920-324-3023

3211 Arnold Lane
Northbrook, IL 60062
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FAX 507-282-3100

31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530

Project No: ESP 03-2200-1267 Task No: 50 Laboratory: U.S. Oil Sample Integrity - To be completed by receiving lab
Seal intact upon receipt Yes No
Project Location: Manitowoc Wisconsin DNR Certification #: 445027660 Method of shipment: Carrier
Project Manager: Lynelle Caine Laboratory Contact: Mike Ricker Contents Temperature: _____ °C Refrigerator No.

Analyses Requested:
Sampler: Susan Knabe Price Quote:
Sampler: Sue Knabe **TURNAROUND TIME REQUIRED**
Sampling Date(s): 8-14-01 Normal Rush water only
Reports to be Sent to: Sue Knabe Date Needed: 8-20-01

Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)
		Date	Time		Water	Soil	Other								
<u>5034385A</u>	<u>S13</u>	<u>8-14-01</u>	<u>1214</u>	<u>2-40ml, 1-2oz</u>		<u>X</u>		<u>Ice</u>	<u>X</u>			<u>X</u>		<u>X</u>	
	<u>B, S10</u>		<u>946</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>C, S25</u>		<u>1540</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>D, S8</u>		<u>944</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>E, S26</u>		<u>1604</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>F, S15</u>		<u>1216</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>G, S19</u>		<u>1220</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>H, S1</u>		<u>910</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>I, S5</u>		<u>943</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>J, S24</u>		<u>1527</u>			<u>X</u>			<u>X</u>			<u>X</u>			

Packed for Shipping by: Sue Knabe Comments: Called to confirm jar labelled S24 but in S25 bag was for S25 sample. com 8/16/01 com
Shipment Date: 8-16-01

Relinquished By: <u>MB Rogan</u>	Date: <u>8-16-01</u>	Relinquished By: <u>Chy Peguette</u>	Date: <u>8/16/01</u>	Relinquished By:	Date:
Company: <u>Northern Environmental</u>	Time: <u>0740</u>	Company: <u>U.S. Oil</u>	Time: <u>18:45</u>	Company:	Time:
Received By: <u>Chy Peguette</u>	Date: <u>8-16-01</u>	Received By: <u>Katie Asman</u>	Date: <u>8-16-01</u>	Received By:	Date:
Company: <u>US Oil</u>	Time: <u>0740</u>	Company: <u>US Oil</u>	Time: <u>18:45</u>	Company:	Time:

Check office originating request

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715-762-1544
FAX 715-762-1844

Lab ID# 5034385

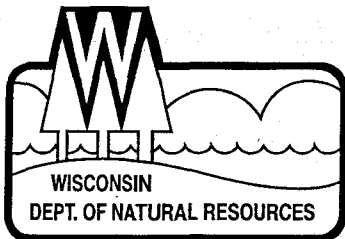
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FAX 507-282-3100

31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530

Project No: <u>ESP 03-2200-1267</u> Task No: <u>50</u>		Laboratory: <u>U.S. Oil</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Method of shipment <u>Overnight</u> Contents Temperature <u>4</u> °C Refrigerator <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes										
Project Location: (city) <u>Manitowish</u>		Wisconsin DNR Certification #: <u>44502766D</u>		ANALYSES REQUESTED										
Project Manager: <u>Lynelle Caine</u>		Laboratory Contact: <u>Mike Ricker</u>												
Sampler: (name) <u>Susan Knabe</u>		Price Quote:		RUSH										
Sampler: (Signature) <u>Sue Knabe</u>		TURNAROUND TIME REQUIRED <input checked="" type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush <u>water only</u> soil												
Sampling Date(s): <u>8-14-01</u>														
Reports to be Sent to: <u>Sue Knabe</u>		Date Needed _____												
Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			DRO (WI Method 8020)	GRO (WI Method 8020)	BETX (WI Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method 8021)	Pb (EPA Method 8021)
		Date	Time		Water	Soil	Other							
<u>5034385K</u>	<u>S14</u>	<u>8-14-01</u>	<u>1215</u>	<u>2-40ml, 1-2oz</u>		<u>X</u>		<u>X</u>			<u>X</u>			
	<u>L, S12</u>		<u>1213</u>			<u>X</u>		<u>X</u>			<u>X</u>			
	<u>M, S20*</u>		<u>1405</u>			<u>X</u>		<u>X</u>						
	<u>N, S21*</u>		<u>1406</u>			<u>X</u>		<u>X</u>						
	<u>O, S22*</u>		<u>1450</u>			<u>X</u>		<u>X</u>						
	<u>P, S23*</u>		<u>1451</u>			<u>X</u>		<u>X</u>						
	<u>Q, Tanker sample</u>	<u>8-14-01</u>	<u>1648</u>	<u>3-40ml, 1-1L</u>	<u>X</u>						<u>X</u>	<u>X</u>		
Packed for Shipping by: <u>Sue Knabe</u>		Comments: <u>* IF DRO detected at greater than 100ppm, then run PVOCs.</u>												
Shipment Date: <u>8-16-01</u>														
Relinquished By: <u>MB Thompson</u>		Date: <u>8-16-01</u>	Relinquished By: <u>Chy Pozuella</u>		Date: <u>8/16/01</u>	Relinquished By:		Date:						
Company: <u>Northern Environmental</u>		Time: <u>0740</u>	Company: <u>U.S. Oil</u>		Time: <u>18:45</u>	Company:		Time:						
Received By: <u>Chy Pozuella</u>		Date: <u>8-16-01</u>	Received By: <u>Tyric Asman</u>		Date: <u>8/16/01</u>	Received By:		Date:						
Company: <u>U.S. Oil</u>		Time: <u>0740</u>	Company: <u>U.S. Oil</u>		Time: <u>18:45</u>	Company:		Time:						



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor
Darrell Bazzell, Secretary
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5800
FAX 920-492-5913
TTY 920-492-5912

September 19, 2001

RECEIVED

JAN 30 2002

ERS DIVISION
OSHKOSH

Mr. Douglas Deaton
Mirro Company
P. O. Box 1330
Manitowoc, WI 54220

Subject: Reported Contamination at Mirro Company, 2401 Mirro Drive, Manitowoc,
Wisconsin
WDNR BRRTS # 03-36-280532

Dear Mr. Deaton:

On August 20, 2001, you notified the Wisconsin Department of Natural Resources (WDNR) that petroleum (fuel oil) contamination had been detected at the site listed above.

Based on the information submitted to the WDNR, we believe you are responsible for restoring the environment at the referenced site under Section 292, Wisconsin Stats., known as the hazardous substances spills law.

This letter describes your legal responsibilities, explains what you need to do to investigate and clean up the contamination, and provides you with information about cleanups, environmental consultants, possible financial assistance, and working cooperatively with the WDNR and Department of Commerce (Commerce).

Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative codes. The hazardous substances spill law, Section 292.11 (3) Wisconsin Statutes, states:

- **RESPONSIBILITY.** A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Code chapters NR 700 through NR 749 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response to limited contamination. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

Steps to Take:

The longer contamination is left in the environment the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and administrative codes, you should hire a professional environmental consultant who understands what needs to be done. These are the first three steps to take:

1. Within the next **30 days of the date of this letter**, you must submit written verification (such as a letter from the consultant) that you have hired an environmental consultant.
2. Within the next **60 days of the date of this letter**, your consultant must submit a workplan and schedule for the investigation. The consultant must follow the WDNR administrative codes and technical guidance documents. To facilitate prompt agency review of your reports, your consultant should use the site investigation and closure formats which are available on-line at www.dnr.state.wi.us.

Once an investigation has established the degree and extent of contamination involved at your site, your consultant will be able to determine whether Commerce or the WDNR has authority over the case.

3. Within 30 days of completion of the site investigation, you or your consultant must provide a brief report at least every 90 days per NR 724.13(3). Quarterly reports need only include one or two pages of text, plus any relevant maps and tables. Should conditions at your site warrant, we may require more frequent contacts.
4. When the site investigation is complete, NR 716.15(1) requires that you or your consultant submit to the WDNR a full report (within 30 days of completion of the report) on the extent and degree of soil and groundwater contamination and a proposal for cleaning up the contamination.
5. After the appropriate remedial action as been implemented and there is no threat to human health or the environment, you or your consultant may apply for closure (no further action required) to the WDNR.
6. Sites where discharges to the environment have been reported are entered into the Bureau for Remediation and Redevelopment Tracking System (BRRTS), a version of which appears on the WDNR's Internet site. You may view the information related to your site at any time (<http://www.dnr.state.wi.us/org/aw/rr/brrts>) and use the feedback system to alert us to any errors in the data.

If you request a formal response from the agency on a specific submittal, please be aware that a review fee is required in accordance with s. NR 749, Wis. Adm. Code. If a fee is not submitted with your reports, you should proceed under the advice of your consultant to complete the site investigation to maintain your compliance with the spills law and chs. NR 700 through NR 749. **Do not delay the investigation of your site by waiting for an agency response.** We have provided detailed technical guidance to environmental consultants. Your consultant is expected to know our technical procedures and administrative codes and should be able to answer your questions on meeting cleanup requirements.

All correspondence regarding this site should be sent to:

**Keld Lauridsen
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
P. O. Box 10448
Green Bay, WI 54307-0448
920/492-5921**

Unless otherwise requested, please send only one copy of plans and reports. To speed processing, correspondence should reference the BRRTS and FID numbers (if assigned) shown at the top of this letter.

Additional Information for Site Owners:

Information to help you select a consultant, review the contractor list, help control costs is enclosed. In addition, *Fact Sheet 2 - Voluntary Party Remediation and Exemption from Liability* is enclosed and provides information on obtaining protection of limited liability under s. 292.15, Stats.

Financial Assistance:

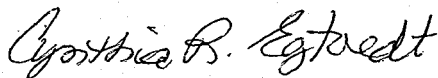
Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for some of the costs of cleaning up contamination from eligible petroleum storage tanks. Please refer to the enclosed information sheet entitled *Information About PECFA* for more information on eligibility and regulations for this program. For more information on the PECFA program, please call the Department of Commerce at 608-266-2424 or visit their web site at <http://www.commerce.state.wi.us/ER/ER>.

Drycleaning Sites:

Funding is also available for cleanup at some drycleaning sites.

Thank you for your cooperation. Call Mr. Lauridsen for more information on eligibility or visit the RR web site <http://www.dnr.state.wi.us/org/aw/rr>. You may also contact this person for all other questions regarding this letter.

Sincerely,



Cynthia R. Egtvedt
Program Assistant
Bureau for Remediation & Redevelopment

- Enclosures:
1. Selecting an Environmental Consultant
 2. Environmental Services Contractor List
 3. Controlling UST Cleanup Costs
 4. Information About PECFA
 5. Fact Sheet 2, VPLE

cc: Lynelle Caine; Northern Environmental; 954 Circle Drive; Green Bay; WI 54304
K. Lauridsen/Green Bay

LETTER OF TRANSMITTAL

Northern EnvironmentalSM
 Hydrologists • Engineers • Geologists

954 Circle Drive
 Green Bay, Wisconsin 54304

414-592-8400
 1-800-854-0606
 Fax 414-592-8444

DATE <u>9-17-01</u>	PROJECT NO. <u>ESP 03-2200-1267</u>
ATTENTION	
RE	
<u>Lab results</u>	

TO: Cindy Egtvedt
WDNR

WE ARE SENDING YOU

- Attached Under separate cover
- Shop Drawings Specifications Plans
- Copy of letter Samples Change order
- _____

COPIES	DESCRIPTION	
<u>1</u>	<u>lab report</u>	RECEIVED JAN 30 2002 <small>ERS DIVISION OSHKOSH</small>

THESE ARE TRANSMITTED (see code)

- A. For Approval
- F. No Exceptions Taken
- J. Resubmit _____ Copies for Review
- B. For Your Use
- G. Make Noted Corrections
- K. Submit _____ Copies for Distribution
- C. As Requested
- H. Amend & Resubmit
- L. Return _____ Corrected Prints
- D. For Review and Comment
- I. _____
- M. Review and Sign _____
- E. For Bids Due _____ 19 _____

REMARKS: Cindy

Attached is a copy of the lab report of the dirty soil sample collected during a recent tank pull at mirro Plant #2 in Manitowoc, WI. mirro completed the WDNR report a release form. Please call if you need any additional information. Thank you

COPY TO: _____

SIGNED: See Kneabe

U.S. Analytical Lab

SUE KNABE
 NORTHERN ENVIRONMENTAL
 954 CIRCLE DRIVE
 GREEN BAY WI 54304

Project # ESP 03-220-1267
 Project Name MANITOWOC
 Invoice # E34385

Report Date 13-Sep-01

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5034385A						Sample Type	Soil	
Sample ID	S13						Sample Date	8/14/01	

Inorganic

General

Solids Percent	79	%			1	8/17/01	5021	JDB	1
----------------	----	---	--	--	---	---------	------	-----	---

Organic

General

Diesel Range Organics	120	mg/kg	0.38	1.3	1	8/22/01	DRO95	JDB	1
-----------------------	-----	-------	------	-----	---	---------	-------	-----	---

PAH's

Acenaphthene	< 35	ug/kg	13	43	1	9/12/01	M8270	DJM	1
Acenaphthylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Anthracene	200	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Benzo(a)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(a)pyrene	< 17	ug/kg	17	57	1	9/12/01	M8270	DJM	1
Benzo(b)fluoranthene	< 24	ug/kg	24	80	1	9/12/01	M8270	DJM	1
Benzo(g,h,i)perylene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Benzo(k)fluoranthene	< 37	ug/kg	37	120	1	9/12/01	M8270	DJM	1
Chrysene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Dibenzo(a,h)anthracene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluoranthene	23 "J"	ug/kg	10	33	1	9/12/01	M8270	DJM	1
Fluorene	350	ug/kg	11	37	1	9/12/01	M8270	DJM	1
Indeno(1,2,3-cd)pyrene	< 13	ug/kg	13	43	1	9/12/01	M8270	DJM	1
1-Methyl naphthalene	340	ug/kg	10	33	1	9/12/01	M8270	DJM	1
2-Methyl naphthalene	89	ug/kg	17	57	1	9/12/01	M8270	DJM	2
Naphthalene	< 10	ug/kg	10	33	1	9/12/01	M8270	DJM	2
Phenanthrene	410	ug/kg	12	40	1	9/12/01	M8270	DJM	1
Pyrene	87	ug/kg	13	43	1	9/12/01	M8270	DJM	1

PVOC

Benzene	< 25	ug/kg	15	48	1	8/29/01	GRO95	CJR	1
Ethylbenzene	< 25	ug/kg	7	22	1	8/29/01	GRO95	CJR	1
MTBE	< 25	ug/kg	10	33	1	8/29/01	GRO95	CJR	1
Toluene	< 25	ug/kg	5.7	18	1	8/29/01	GRO95	CJR	1
1,2,4-Trimethylbenzene	140	ug/kg	24	77	1	8/29/01	GRO95	CJR	1
1,3,5-Trimethylbenzene	110	ug/kg	15	48	1	8/29/01	GRO95	CJR	1
Xylene's	< 75	ug/kg	18	60	1	8/29/01	GRO95	CJR	1

Check office originating request

1214 W. Venture Ct.
Mequon, WI 53092
262-241-3133
FAX 262-241-8222

372 West County Road D
New Brighton, MN 55112
651-635-9100
FAX 651-635-0643

954 Circle Drive
Green Bay, WI 54304
920-592-8400
FAX 920-592-8444

330 South 4th Avenue
Park Falls, WI 54552
715-762-1544
FAX 715-762-1844

Lab ID# 5034385

1203 Storbeck Drive
Waupun, WI 53963
920-324-8600
FAX 920-324-3023

3211 Arnold Lane
Northbrook, IL 60062
847-562-8577
FAX 847-562-8552

112 7th Street NE
Rochester, MN 55906
507-282-3800
FAX 507-282-3100

31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530

Project No: <u>ESP 03-2200-1267</u> Task No: <u>50</u>		Laboratory: <u>U.S. oil</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
Project Location: <u>Manitowoc</u>		Wisconsin DNR Certification #: <u>445027660</u>		Method of shipment: <u>Guarner</u>											
Project Manager: <u>Lynelle Caine</u>		Laboratory Contact: <u>mike Ricker</u>		Contents Temperature: _____ °C Refrigerator No. <u>✓</u>											
Sampler: (name) <u>Susan Knabe</u>		Price Quote:		ANALYSES REQUESTED											
Sampler: (Signature) <u>Sue Knabe</u>		TURNAROUND TIME REQUIRED													
Sampling Date(s): <u>8-14-01</u>		<input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush <u>water only</u>													
Reports to be Sent to: <u>Sue Knabe</u>		Date Needed <u>8-20-01</u>													
Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO (WI Method 8020)	GRO (WI Method 8020)	BTEX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)
		Date	Time		Water	Soil	Other								
<u>5034385A</u>	<u>S13</u>	<u>8-14-01</u>	<u>1214</u>	<u>2-40ml, 1-2oz</u>		<u>X</u>		<u>Ice</u>	<u>X</u>			<u>X</u>		<u>X</u>	
	<u>B/S10</u>		<u>946</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>C/S25</u>		<u>1540</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>D/S8</u>		<u>944</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>E/S26</u>		<u>1604</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>F/S15</u>		<u>1216</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>G/S19</u>		<u>1220</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>H/S1</u>		<u>910</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>I/S5</u>		<u>943</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
	<u>J/S24</u>		<u>1527</u>			<u>X</u>			<u>X</u>			<u>X</u>		<u>X</u>	
Packed for Shipping by: <u>Sue Knabe</u>				Comments: <u>Called to confirm jar labelled s24 but in s25 bag was for s25 sample. com 8/16/01 com</u>											
Shipment Date: <u>8-16-01</u>															
Relinquished By: <u>MBS Pagnola</u>		Date: <u>8-16-01</u>		Relinquished By: <u>Chy Pagnola</u>		Date: <u>8/16/01</u>		Relinquished By:		Date:		Relinquished By:		Date:	
Company: <u>Northern Environmental</u>		Time: <u>0740</u>		Company: <u>U.S. Oil</u>		Time: <u>18:45</u>		Company:		Time:		Company:		Time:	
Received By: <u>Chy Pagnola</u>		Date: <u>8-16-01</u>		Received By: <u>Katie Asman</u>		Date: <u>8-16-01</u>		Received By:		Date:		Received By:		Date:	
Company: <u>US OR</u>		Time: <u>0740</u>		Company: <u>US Oil</u>		Time: <u>18:45</u>		Company:		Time:		Company:		Time:	

Check office originating request

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FAX 507-282-3100

31628 Glendale Ave., Ste 100
Livonia, MI 48150
734-422-2624
FAX 734-422-3530

Lab ID# 5034385

Project No: <u>ESP 03-2200-126T</u> Task No: <u>50</u>		Laboratory: <u>U.S. Oil</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input checked="" type="checkbox"/> <u>Signature</u> Method of shipment <u>at</u> °C Refrigerator No. <u>✓</u>											
Project Location (city): <u>Manitowoc</u>		Wisconsin DNR Certification #: <u>44502766D</u>		ANALYSES REQUESTED											
Project Manager: <u>Lynelle Caine</u>		Laboratory Contact: <u>Mike Ricker</u>													
Sampler (name): <u>Susan Knabe</u>		Price Quote:		RUSH											
Sampler (Signature): <u>Sue Knabe</u>		TURNAROUND TIME REQUIRED <input checked="" type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush <u>water only</u> soil													
Sampling Date(s): <u>8-14-01</u>															
Reports to be Sent to: <u>Sue Knabe</u>		Date Needed													
Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO (WI Method 8020)	GRO (WI Method 8020)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)
		Date	Time		Water	Soil	Other								
<u>5034385K</u>	<u>S14</u>	<u>8-14-01</u>	<u>1215</u>	<u>2-40ml, 1-2oz</u>		<u>X</u>		<u>Ice</u>	<u>X</u>			<u>X</u>			
	<u>L, S12</u>		<u>1213</u>			<u>X</u>			<u>X</u>			<u>X</u>			
	<u>M, S20*</u>		<u>1405</u>			<u>X</u>			<u>X</u>						
	<u>N, S21*</u>		<u>1406</u>			<u>X</u>			<u>X</u>						
	<u>O, S22*</u>		<u>1450</u>			<u>X</u>			<u>X</u>						
	<u>P, S23*</u>		<u>1451</u>			<u>X</u>			<u>X</u>						
	<u>Q, Tanker sample</u>	<u>8-14-01</u>	<u>1648</u>	<u>3-40ml, 1-1L</u>	<u>X</u>			<u>HCl, Ice</u>				<u>X</u>	<u>X</u>		
Packed for Shipping by: <u>Sue Knabe</u>		Comments: <u>* If DRD detected at greater than 100ppm, then run PVOCs.</u>													
Shipment Date: <u>8-16-01</u>															
Relinquished By: <u>MB Thompson</u>		Date: <u>8-16-01</u>	Relinquished By: <u>Chy Pozzetta</u>		Date: <u>8/16/01</u>	Relinquished By:		Date:							
Company: <u>Northern Environmental</u>		Time: <u>0740</u>	Company: <u>U.S. Oil</u>		Time: <u>18:45</u>	Company:		Time:							
Received By: <u>Chy Pozzetta</u>		Date: <u>8-16-01</u>	Received By: <u>Tracie Asman</u>		Date: <u>8-16-01</u>	Received By:		Date:							
Company: <u>U.S. Oil</u>		Time: <u>0740</u>	Company: <u>U.S. Oil</u>		Time: <u>18:45</u>	Company:		Time:							

Resubmit 8/20/01

State of Wisconsin
Department of Natural Resource

Please Fax Notification
Non-Emergency Only

Post-It™ brand fax transmittal memo 7871 # of pages 2

Form 4400-225 (7/01) Page 1 of 2

Emergency situation

To: <u>Cindy Egstvedt</u>	From: <u>D. Deaton</u>
Co. <u>WDNR</u>	Co. <u>Mirro</u>
Dept.	Phone #
Fax # <u>(920) 492-5913</u>	Fax #

10-943-0003

§ 19.31, s. 292.11, Wis. Stats.
Furnished by one of three methods:
1. By visiting a Department office

Notice: Hazardous substance
Section NR 706.05(1)(b), Wis. A
telephoning the Department (toll
in person. If you choose to notify
the Department by fax, you should use this form to be sure that all necessary information is
included. However use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating ch. 292, Wis. Stats., shall
be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the
Department's intention to use any personally identifiable information from this form for any purpose other than program administration.
However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss.
19.31 - 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, if available, to assist the DNR in processing this Hazardous Substance
Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** FAX it to the appropriate WDNR region (see next page) **IMMEDIATELY**
upon discovery of a potential release to the environment from (check one):

- Underground Petroleum Storage Tank System
- Aboveground Petroleum Storage Tank System
- Dry Cleaner Facility (DERP eligibility based on: Facility owner/operator Property owner of licensed facility)
- Other - Describe:

TO: WDNR, Attn:

(Area Code) FAX Number

Cynthia Egstvedt

(920) 492-5859

Name <u>Eg Douglas Deaton</u>	Firm <u>Mirro Company</u>	Date FAXed to WDNR <u>8/13/01</u>
----------------------------------	------------------------------	--------------------------------------

Mailing Address <u>P.O. Box 1330 Manitowoc WI 54220</u>	(Area Code) Telephone Number <u>(920) 684-3479 ext 7538</u>
--	--

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a
residence / vacant property

Mirro Company

RECEIVED

Location: Include street address, not PO Box. If no street address, describe as precisely as possible,
i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60

JAN 30 2002

2401 Mirro Drive, Manitowoc WI 54220

Municipality (City, Village, Township) Specify municipality in which the site is located, not mailing address/city

ERS DIVISION
OSHKOSH

County: <u>Manitowoc</u>	Legal Description: <u>NW 1/4, NW 1/4, Section 9, Tn 19N, Range 24 (E) W (circle one)</u>
-----------------------------	---

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach
additional pages as necessary

Mirro Company

Contact Person Name (if different) <u>Douglas Deaton</u>	Telephone Number <u>(920) 684-3479 ext 7538</u>
---	--

Mailing Address <u>P.O. Box 1330</u>	City <u>Manitowoc</u>	State <u>WI</u>	ZIP Code <u>54220</u>
---	--------------------------	--------------------	--------------------------

Identify and estimate the quantity of the hazardous substance discharged (check all that apply):

LYNELL CAINE
NORTHERN END.

State of Wisconsin
Department of Natural Resources

Hazardous Substance Release Fax Notification
(Non-Emergency Only)
Form 4400-225 (7/01) Page 2 of 2

- | | |
|--|---|
| <input type="checkbox"/> Unleaded gasoline _____ gallons | <input checked="" type="checkbox"/> Fuel oil <u>unknown</u> gallons |
| <input type="checkbox"/> Leaded gasoline _____ gallons | <input type="checkbox"/> Waste oil _____ gallons |
| <input type="checkbox"/> Diesel _____ gallons | <input type="checkbox"/> Stoddard solvent _____ gallons |
| <input type="checkbox"/> Perchloroethylene _____ gallons | <input type="checkbox"/> Other: (Specify below) |

Impacts to the environment (enter "K" for known/confirmed or "P" for potential for all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Fire/explosion threat | <input checked="" type="checkbox"/> Soil contamination |
| <input type="checkbox"/> Contaminated private wells (# of wells) _____ | <input type="checkbox"/> Surface water impacts |
| <input type="checkbox"/> Contaminated public wells | <input type="checkbox"/> Floating product |
| <input checked="" type="checkbox"/> Groundwater contamination | <input type="checkbox"/> Other (Describe below) |

Contamination was discovered as a result of:

- Tank closure assessment Site assessment
 Other - Describe below

On what date?

8/13/2001

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

Segregation of possibly contaminated soil from soil that is thought to not be contaminated.

FAX numbers to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (920-492-5859); Attention - RR Program Assistant:

Brown, Calumet, Door, Fond du Lac (*except City of Waupun - see South Central Region*), Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Waupaca, Waushara, Winnebago Counties

Northern Region (715-365-8932); Attention - RR Program Assistant:

Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn Counties

South Central Region (608-275-3338); Attention - RR Program Assistant:

Columbia, Crawford, Dane, Dodge, Fond du Lac (*City of Waupun only*), Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk Counties

Southeast Region (414-263-8483); Attention - RR Program Assistant:

Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, Waukesha Counties

West Central Region (715-839-6076); Attention - RR Program Assistant:

Adams, Buffalo, Chippewa, Clark, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood Counties