

GIS REGISTRY
Cover Sheet

March, 2010
(RR 5367)

Source Property Information

BRRTS #:

ACTIVITY NAME:

PROPERTY ADDRESS:

MUNICIPALITY:

PARCEL ID #:

CLOSURE DATE:

FID #:

DATCP #:

COMM #:

***WTM COORDINATES:**

X: **Y:**

** Coordinates are in
WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

- Approximate Center Of Contaminant Source
- Approximate Source Parcel Center

**Modification actions taken after
continuing obligations were applied.
Refer to BOTW for further information.**

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- Groundwater Contamination > ES (236)**
- Contamination in ROW
- Off-Source Contamination
- (note: for list of off-source properties see "Impacted Off-Source Property" form)*
- Soil Contamination > *RCL or **SSRCL (232)**
- Contamination in ROW
- Off-Source Contamination
- (note: for list of off-source properties see "Impacted Off-Source Property" form)*

Land Use Controls:

- N/A (Not Applicable)
- Soil: maintain industrial zoning (220)
- (note: soil contamination concentrations between non-industrial and industrial levels)*
- Structural Impediment (224)
- Site Specific Condition (228)
- Cover or Barrier (222)
- (note: maintenance plan for groundwater or direct contact)*
- Vapor Mitigation (226)
- Maintain Liability Exemption (230)
- (note: local government unit or economic development corporation was directed to take a response action)*

Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? (234)

- Yes No N/A

** Residual Contaminant Level
**Site Specific Residual Contaminant Level*

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: PARCEL ID #:
ACTIVITY NAME: WTM COORDINATES: X: Y:

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- Closure Letter**
- Maintenance Plan** (if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)
- Continuing Obligation Cover Letter** (for property owners affected by residual contamination and/or continuing obligations)
- Conditional Closure Letter**
- Certificate of Completion (COC)** (for VPLE sites)

SOURCE LEGAL DOCUMENTS

- Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).
Figure #: **Title: CSM 1705 Vol 11 Page 129**
- Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 11 x 17 inches unless the map is submitted electronically.

- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
Note: Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.
Figure #: 1-1 **Title: Site Location Map**
- Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: 2 **Title: Site Detail Map**
- Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: **Title:**

BRRTS #: 02-38-260867

ACTIVITY NAME: Marinette Marine Corp

MAPS (continued)

- Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: **Title:**

Figure #: **Title:**

- Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.

Note: *This is intended to show the total area of contaminated groundwater.*

Figure #: **Title:**

- Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: **Title: Groundwater Flow Map, Dec 2000**

Figure #: **Title:**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 11 x 17 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

- Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: 3-2 Title: Comparison of Soil Analytical Results to Residual Contaminant Levels (RCL)

- Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: 4 Title: Groundwater Analytical Results

- Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: **Title:**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.

Note: *If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.*

- Not Applicable**

- Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.

Note: *If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.*

Figure #: **Title:**

- Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

- Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

- Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRTS #: 02-38-260867

ACTIVITY NAME: Marinette Marine Corp

NOTIFICATIONS

Source Property

Not Applicable

Letter To Current Source Property Owner: If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.

Return Receipt/Signature Confirmation: Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

Not Applicable

Letter To "Off-Source" Property Owners: Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.

Note: Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.

Number of "Off-Source" Letters:

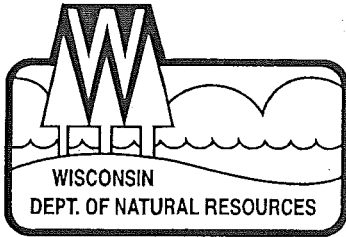
Return Receipt/Signature Confirmation: Written proof of date on which confirmation was received for notifying any off-source property owner.

Deed of "Off-Source" Property: The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies)**. This does not apply to right-of-ways.

Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.

Letter To "Governmental Unit/Right-Of-Way" Owners: Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

Number of "Governmental Unit/Right-Of-Way Owner" Letters:



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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

Peshtigo Service Center
PO Box 208
101 N. Ogden Road
Peshtigo, Wisconsin 54157
Telephone 715-582-5048
FAX 715-582-5005

February 11, 2002

Marinette Marine Corporation
Attn: Bill Getchell
1600 Ely Street
Marinette, WI 54143-2434

SUBJECT: Final Case Closure By Closure Committee With Conditions Met
Marinette Marine Corporation, 1600 Ely Street, Marinette, WI
WDNR BRRTS # 02-38-260867

Dear Mr. Getchell:

On May 7, 2001, your site as described above was reviewed for closure by the Northeast Region Closure Committee. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On May 31, 2001, you were notified that the Closure Committee had granted conditional closure to this case.

On February 8, 2002, the Department received correspondence indicating that you have complied with the conditions of closure. On this date, the Department received a copy of the deed restriction filed on the Marinette Marine property for the remaining soil and groundwater contamination at the site. On August 31, 2001, the Department received documentation of the abandonment of monitoring wells at the site, and on October 4, 2001, the Operation and Maintenance Plan for a performance standard (cap) required as a condition of closure was received. Based on the correspondence and data provided, it appears that your site has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit:
<http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-582-5048.

Sincerely,

A handwritten signature in cursive script that reads "Cathy Rodda". The signature is written in black ink and is positioned above the printed name.

Cathy Rodda
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Kim Conant, ECCI, PO Box 11417, Green Bay, WI 54307-1417
File

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater contamination exceeding ch. NR 140, Wis. Adm. Code groundwater standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality does not comply with drinking water standards in ch. NR 809, Wis. Adm. Code is restricted by chs. NR 811 and NR 812, Wis. Adm. Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for arsenic that was previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

If contaminated soil that remains on the property is excavated in the future and not maintained as set forth in the Operation and Maintenance Plan attached hereto as Exhibit 4, it will have to be sampled and analyzed and the treatment or disposal of the soil as a solid or hazardous waste may be necessary.

The following activities are prohibited on that portion of the property described above where a cap or cover has been placed [(a map of the property and capped areas is provided in Exhibit 3 (Figure 2)], unless prior notice has been given to the Wisconsin Department of Natural Resources or its successor or assign: (1) Excavating or grading of the land surface; (2) Filling on the capped area; (3) Plowing for agricultural cultivation; and (4) Construction or installation of a building or other structure with a foundation that would sit on or be placed within the cap or cover. In addition, the cap or cover shall be maintained in compliance with the Operation and Maintenance Plan prepared and submitted to the Wisconsin Department of Natural Resources by a responsible party, as required by section NR 724.13(2), Wis. Adm. Code (1997).

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by

descent, devise, purchase or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

By signing this document, Maurice D Jones asserts that he is duly authorized to sign this document on behalf of Marinette Marine Corporation.

IN WITNESS WHEREOF, the owners of the property have executed this Declaration of Restrictions, this 9th day of November, 2001.

Marinette Marine Corporation
Signature: Maurice D. Jones
Printed Name: Maurice D. Jones
Title: Secretary

Subscribed and sworn to before me
this 9th day of November, 2001.

Linda S. Mura
Notary Public, State of Wisconsin
My commission July 25, 2004

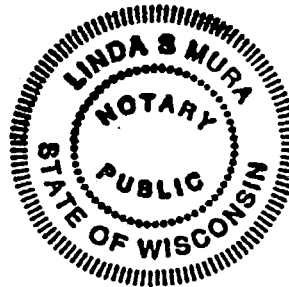
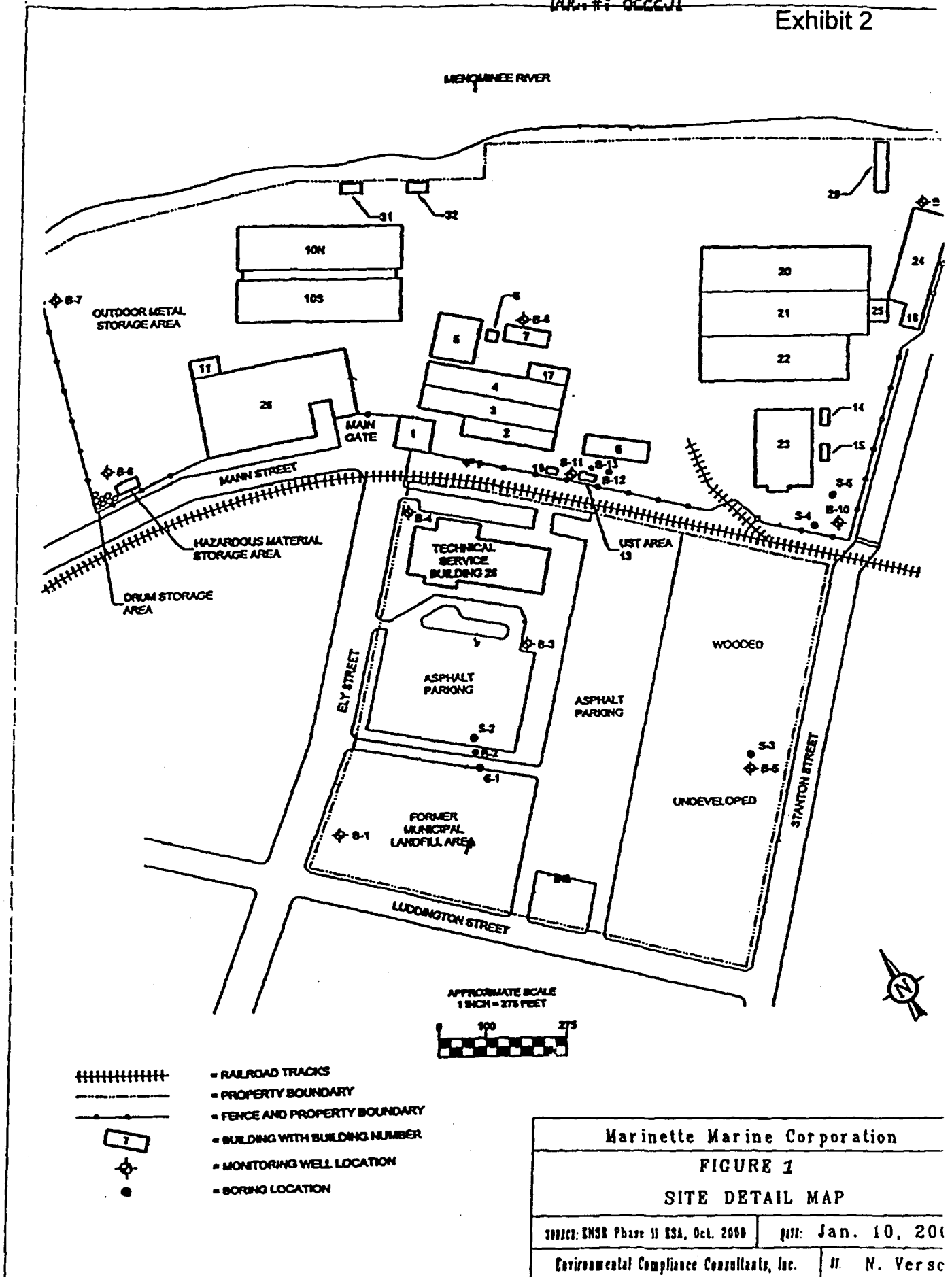


EXHIBIT 1

That part of Certified Survey Map 1705 (as filed in Volume 11 of Certified Survey Maps, page(s) 129-130, as Document #599908 MCR), and of Government Lot 2 of Section 5, and of Government Lot 5 of Section 6, all being located in Township 30 North, Range 24 East, City of Marinette, Wisconsin, being bounded and described as follows: From the Southeast Corner of said Section 6, measure due North, 2776.07 feet along the East line of said Section 6, to the Bulkhead line of the Menominee River, and the point of beginning of the parcel hereinafter described; thence North $72^{\circ} 25' 35''$ West, 136.18 feet along said Bulkhead line, to the East Line of lands described in Jacket 1231 at Image 39-40; thence South $17^{\circ} 34' 25''$ West, 120.00 feet along said East line; thence North $72^{\circ} 25' 35''$ West, 375.76 feet along the South Line of said Lands; thence North $84^{\circ} 29' 15''$ West, 596.05 feet along the South line of said lands, to the East line of lands described in Vol. 431 of Records, on page 77; thence South $02^{\circ} 28' 27''$ West, 599.52 feet along said East line, to the Northerly line of Mann Street, as monumented; thence North $79^{\circ} 32' 41''$ East, 163.41 feet along said Northerly line; thence North $86^{\circ} 28' 00''$ East, 236.30 feet, along said Northerly line; thence South $80^{\circ} 29' 30''$ East, 200.69 feet along said Northerly line; thence South $50^{\circ} 08' 25''$ East, 61.68 feet to an existing concrete monument on the Easterly line of Ely Street, said monument being denoted as point "A" for reference; thence South $28^{\circ} 34' 55''$ West, 635.37 feet along said Easterly line of Ely Street to an existing concrete monument; thence South $43^{\circ} 34' 53''$ West, 270.70 feet, along said Easterly line to the Northeasterly line of Ludington Street; thence South $51^{\circ} 51' 20''$ East, 601.33 feet along said line; thence South $51^{\circ} 56' 22''$ East, 413.20 feet along said line to the Easterly line of lands described in Jacket 1105 at Image 23; thence North $30^{\circ} 23' 06''$ East, 463.42 feet along said Easterly line; thence North $28^{\circ} 50' 28''$ East, 436.33 feet along said Easterly line; thence South $59^{\circ} 46' 32''$ East, 50.00 feet to the Westerly line of Stanton Street; thence North $28^{\circ} 50' 28''$ East, 65.89 feet along said Westerly line to the Southerly line of the combined right of way of the Chicago and Northwestern Railroad and the Chicago, Minneapolis, St. Paul and Pacific Railroad; thence North $48^{\circ} 18' 27''$ East, 78.86 feet to the Northerly right of way of said Railroads; thence North $30^{\circ} 58' 22''$ East, 438.41 feet to an existing concrete monument; thence North $72^{\circ} 55' 05''$ East, 52.39 feet; thence North $30^{\circ} 58' 38''$ East, 433.70 feet to a point 40 feet Southerly as measured at right angles to, the South line of the Channel of the Menominee River; thence North $72^{\circ} 25' 35''$ West, 926.87 feet along a line parallel with and 40 feet distant from said channel line, to the point of beginning; EXCEPT THE FOLLOWING DESCRIBED PARCEL being used as railroad right of way; All that part of Government Lot 2 of Section 6, Township 30 North of Range 24 East, City of Marinette, Wisconsin, being bounded and described as follows: From a concrete monument located at the Northeasterly corner of Mann Street and Ely Street, said monument being referred to as point "A" in the above description, and run thence South $28^{\circ} 34' 55''$ West, 26.47 feet (recorded in deeds as 25.20 feet) along the Easterly line of Ely Street, to the Northerly line of the Chicago, Minneapolis, St. Paul and Pacific Railroad Spur, and the point of beginning of the parcel hereinafter described; thence continue South $28^{\circ} 34' 55''$ West, 76.67 feet along said Easterly line to the Southerly line of the Chicago and Northwestern Railroad; thence Southeasterly, 232.25 feet along said line, along the arc of a 955.00 foot radius curve to the right, whose chord bears South $66^{\circ} 54' 13''$ East, 231.68

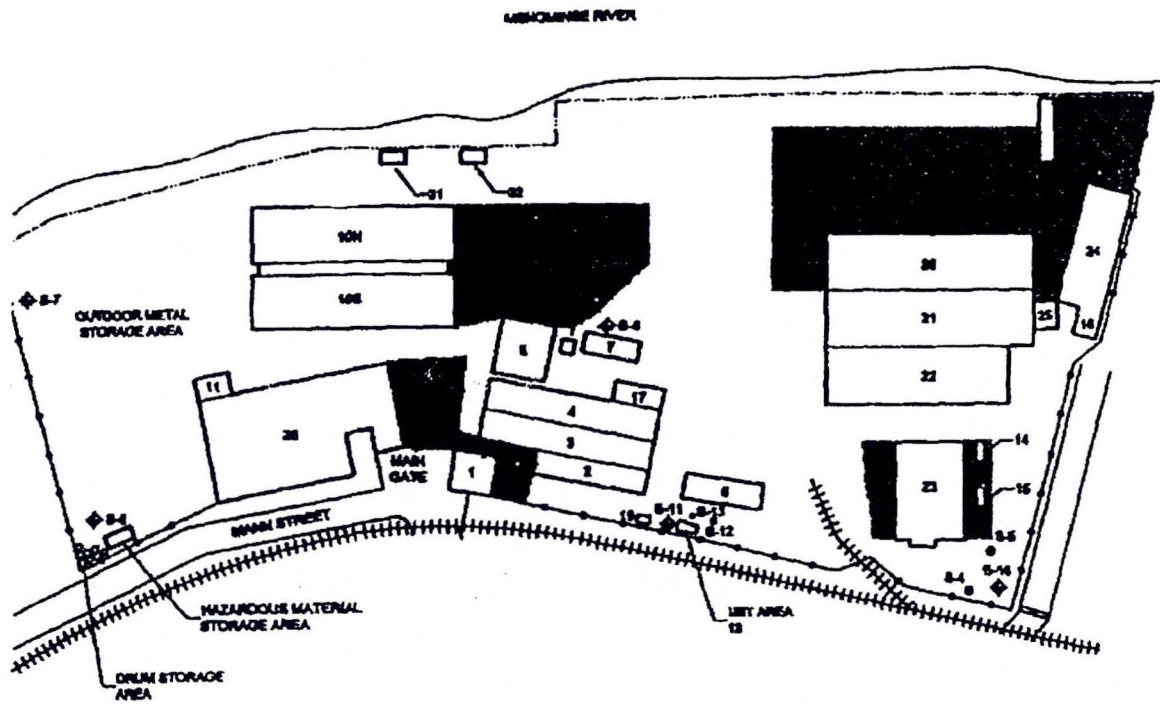
feet; thence South 59° 56' 12" East, 766.95 feet along said South line, to the Westerly line of Stanton Street; thence North 48° 18' 27" East, 78.86 feet to the Northerly Line of said Chicago, Minneapolis, St. Paul and Pacific Railroad; thence North 59° 56' 12" West, 791.64 feet along said Northerly line; thence Northwesterly, 233.95 feet along said Northerly line along the arc of a 1030.00 foot radius curve to the left, whose chord bears North 66° 26' 37" West, 233.45 feet to the point of beginning; said premises being described pursuant to a William Lenca September 26, 2000 survey and is situate in the City of Marinette, Marinette County, Wisconsin.



- ||||| - RAILROAD TRACKS
- - PROPERTY BOUNDARY
- - - - - FENCE AND PROPERTY BOUNDARY
- [7] - BUILDING WITH BUILDING NUMBER
- ◆ - MONITORING WELL LOCATION
- - BORING LOCATION

APPROXIMATE SCALE
1 INCH = 275 FEET

Marinette Marine Corporation	
FIGURE 1	
SITE DETAIL MAP	
source: RNSR Phase II ESA, Oct. 2000	date: Jan. 10, 2001
Environmental Compliance Consultants, Inc.	by: N. Verso



█ = Blacktop / Concrete / Gravel

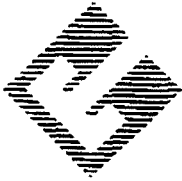
**** All Other Areas are Gravel / Vegetation ****



- ||||| = RAILROAD TRACKS
- - - - - = PROPERTY BOUNDARY
- · - · - = FENCE AND PROPERTY BOUNDARY
- [] = BUILDING WITH BUILDING NUMBER
- ◇ = MONITORING WELL LOCATION
- = BORING LOCATION

Exhibit 3

Marinette Marine Corporation	
FIGURE 2	
SITE DETAIL MAP	
339422 INSR Phase II ESA, Oct. 2000	DATE: Jan. 10, 2001
Environmental Compliance Consultants, Inc.	BY: N Versch



ENVIRONMENTAL COMPLIANCE CONSULTANTS, INC.

P.O. Box 11417 • GREEN BAY, WI 54307-1417 • 920-434-5380 (VOICE) • 920-434-5381 (FAX)

October 3, 2001

Exhibit 4

Ms. Cathy Rodda
WDNR
101 N. Ogden Road
P.O. Box 208
Peshtigo, WI 54157

Dear Ms. Rodda:

RE: Operation and Maintenance Plan for Marinette Marine Corporation
1600 Ely Street, Marinette, Wisconsin
WDNR BRRTS #02-38-260867

On behalf of Marinette Marine Corporation (MMC), Environmental Compliance Consultants, Inc. (ECCI) has prepared the following Operation and Maintenance plan in accordance to *Wis. Adm. Code* ch. NR 724.13 (2). The Operation and Maintenance Plan has been developed to satisfy the requirements of the WDNR's *Case Closure with a Soil and Groundwater Use Restriction and Performance Standard (Cap) for The Marinette Marine site* letter dated July 20, 2001.

Property Owner

Marinette Marine Corporation
1600 Ely Street
Marinette, Wisconsin 54143-2434

Consultant

Environmental Compliance Consultants, Inc.
P.O. Box 11417
Green Bay, Wisconsin 54307-1417

Site Location

The MMC property is located in the NE 1/4 of the NW 1/4 of Section 5, Township 31 North, Range 27 East, as shown on the U.S. Geological Survey, *Marinette West, Wis.* 1.5-minute topographic quadrangle map. A regional site location map is enclosed as *Figure 1*.

The portion of the property subject to this Operation and Maintenance Plan is limited to the area north of the railroad tracks—within the gated area. A site detail map is enclosed as *Figure 2*.

Nature and Extent of Contamination

Arsenic impacted groundwater exceeding ch. NR 140.10 enforcement standards (ES) was detected at monitoring wells B-3 and B-10. Arsenic impacted soil above the ch. NR 720.09 generic residual contaminant level (GRCL) for industrial sites was detected at soil borings B-7 and B-8.

Type of Cap

The area depicted on *Figure 2* is capped by existing asphalt, concrete, gravel, vegetation, and buildings. The cap is intended to minimize the risk of direct contact and need not be impermeable.

Normal Operation and Maintenance—ch. NR 724.13 (2)(b)

As part of the normal operation and maintenance MMC will examine pave areas for evidence of cracking, settling, potholes, erosion, and other damage. Gravel and vegetated areas will be examined for evidence of erosion, settlement, burrowing, potholes, and other damage. Routine grading and filling of potholes will be conducted as needed without notice to the WDNR. The examinations will be done on a quarterly basis and a copy of the quarterly operation and maintenance inspection report is enclosed.

Contingency Plan—ch. NR 724.13 (2)(c)

Damaged areas will be repaired within 30 days of discovery. Any areas showing damage will be repaired with a concrete or asphalt patch or the placement of additional gravel or vegetation so that at least 3"-4" of gravel or a vegetative cover is maintained as a cap. The WDNR need not be notified of routine repair or maintenance of the asphalt, concrete, gravel, or vegetative cap. If a building is razed, or an activity on-site causes an area to have less than a 3"-4" cap, the area will be recapped, e.g. with another building or structure, asphalt, concrete, gravel or vegetation.

Routine Monitoring and Analysis—ch. NR 724.13 (2)(d)

Long-term monitoring will not be required under case closure conditions. If soil that is present on the property is excavated, it may be replaced on the site within the area depicted in *Figure 2* provided it is capped with asphalt, concrete, gravel, vegetative cover or a building or structure. If the excavated soils are to be removed from the property they will be sampled and analyzed and disposed of in accordance with the then current State regulations.

Emergency Conditions

Emergency excavation and maintenance of buried utility lines, plumbing or other equipment may be conducted without prior notice to the WDNR provided the excavated materials are handled in accordance with the O & M plan. The WDNR will be advised of the emergency on the first business day after any such emergency. It is understood that following such activity, the cap will be restored to proper condition.

Facility-Specific Record Keeping and Reporting—ch. NR 724.13 (2)(e)

Completed copies of quarterly written inspections will be maintained on-site for five (5) years.

Ms. Cathy Rodda, WDNR

October 3, 2001

Operation and Maintenance Plan for Marinette Marine Corporation

Page 3

Closing

If you have any questions regarding the above Operation and Maintenance Plan, please contact me at (920) 434-6380.

Sincerely,

ENVIRONMENTAL COMPLIANCE CONSULTANTS, INC.



Noel Versch
Project Manager

cc: Mr. Bill Getchell, Marinette Marine Corporation
Mr. Kim Conant, ECCI

**Quarterly Operation and Maintenance Inspection Report
Marinette Marine Corporation
Marinette, Wisconsin**

Date: _____ Weather: _____
Inspected By: _____

Observations of paved areas:

Observations of gravel areas:

Observations of building areas:

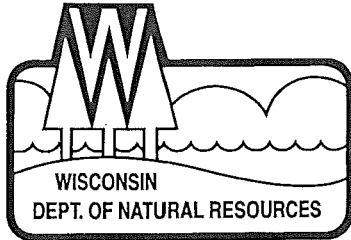
Observations of vegetated area:

Miscellaneous Observations:

Repairs Made:

Signature:

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

May 31, 2001

Marinette Marine Corporation
Attn: Dan Gulling
1600 Ely Street
Marinette, WI 54143

SUBJECT: Case Closure with a Soil & Groundwater Use Restriction and Soil Performance Standard (Cap)
Marinette Marine, 1600 Ely Street, Marinette, Wisconsin
WDNR BRRTS # 02-38-260867

Dear Mr. Dan Gulling:

On May 7, 2001, the Bureau for Remediation and Redevelopment's Northeast Region Closure Committee met to discuss the above referenced site. The committee has agreed to close this site pending the completion and filing of a soil and groundwater use deed restriction and the placement of a performance standard (cap). The soil and groundwater use deed restriction will state that arsenic contaminated groundwater remains on the property at monitoring locations B-3 and B-10 and that additional remedial action is not feasible at this time. It will also state that the existing asphalt/gravel cap must be maintained on the property to the north of the railroad tracks to minimize direct contact concerns. You should be aware that the cap is to be maintained in accordance with a plan prepared and submitted to the Department pursuant to s. NR 724.13(2), Wis. Adm. Code. The department also recommends that an agreement between Marinette Marine and Ansul be reached so that Monitoring wells on Marinette Marine Property be used for the Ansul investigation in which Ansul would be responsible for the maintenance of these wells.

Only when the soil and groundwater use deed restriction has been finalized and filed with Marinette County and the Department receives a copy of the filed document, can this site be closed. To expedite the completion of the restriction and closure process, the Department requests that you submit the following:

- A complete, legible and unabbreviated legal description of the property
- A legible copy of the most recent deed for your property
- Available maps, such as a survey map, showing the property boundaries, building outlines and monitoring well/piezometer locations



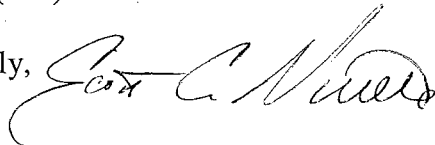
If you do not have these documents they can be obtained from the Marinette County Register of Deeds. Once this information is received, the Department will send you a draft copy of the soil and groundwater use deed restriction containing language regarding the remaining arsenic contamination and the cap covering it. If the draft deed restriction is accurate and acceptable, please sign it, file it with the Register of Deeds office and return a copy of the signed and filed restriction to the Department for our records. The Department must also receive documentation of proper abandonment of any and all monitoring wells (unless maintained by Ansul), if you do not intend to perform long term monitoring at your site. Once all this information has been received, this case will be conditionally closed.

This soil and groundwater use deed restriction and the maintenance of the cap are options that the Department can offer in order to conditionally close this site. If you choose not to accept these options, you will need to perform additional investigation and cleanup of the remaining contamination. Within **14 days** of receipt of this notice, please submit a letter to the Department documenting your intentions.

If you have any additional relevant information concerning this matter that has not been formerly provided to the Department, you should submit this information to the Department for reevaluation.

The Department appreciates the actions you and your environmental consultant have undertaken to restore the environment at this site. If you have any questions, please contact me in Green Bay at (920) 492-5871.

Sincerely,



Scott C. Miller
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Noel Versch, ECCI, Inc., P.O. Box 11417, Green Bay, WI 54307-1417
Thomas P. McElligott, Quarles & Brady, LLP, 411 East Wisconsin Avenue,
Milwaukee, WI 53202-4497
Pamela Barker, Godfrey & Kahn SC, 333 Main Street, Green Bay, WI 54301
John Buck, The Manitowoc Company

335 72 337878
Know All Men by These Presents:

THAT THE **THE ANSUL COMPANY** a corporation duly organized and existing under the laws of Wisconsin and having its principal office in the City of Marinette and State of Wisconsin, party of the first part, in consideration of the sum of One Dollar (\$1.00) and other consideration

to it duly paid, the receipt whereof is hereby confessed and acknowledged, does hereby sell, release, sell, convey and guarantee unto **MARINETTE MARINE CORPORATION** a corporation,

party of the second part, and to its successors and assigns, forever all the right, title, interest, claim and demand, which said party of the first part has in and to the following described real estate situated in the County of Marinette in the State of Wisconsin

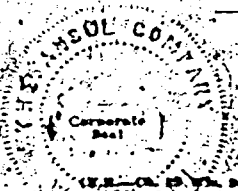
to-wit:
All that portion of Government Lot Two (2), Section Five (5), Township Thirty (30) North, Range Twenty-four (24) East lying westerly of a line described as follows, to-wit: Commencing at a point on the Northwesterly line of the Chicago, Milwaukee, St. Paul and Pacific Railroad right of way thirty-five (35) feet Northwesterly of the intersection of the Northwesterly line of Stanton Street being the point of beginning; thence East thirty-two Degrees, thirty-two minutes, forty-five seconds (32° 32' 45") East four hundred thirty-eight and 42/100 (438.42) feet; thence North Seventy-four Degrees, twenty-six minutes, forty-five seconds (74° 26' 45") East fifty-two and 36/100 (52.36) feet; thence North thirty-two Degrees, thirty-two minutes, forty-five seconds (32° 32' 45") East four hundred twenty-seven and 4/10 (427.4) feet more or less to the Kinnelon River.

As Date and to hold, the same together with all and singular the appurtenances and privileges thereunto belonging or in anywise thereunto appertaining, and all the estate, right, title, interest and claim whatsoever, of the said party of the first part, either in law or equity, either in possession or expectancy, to the only proper use, benefit and behoof of said party of the second part, its successors and assigns forever.

In Witness Whereof, the said party of the first part hath caused these presents to be signed by **Ray Twining** its Vice-President, countersigned by **Edmund C. Carns** its secretary and its corporate seal to be hereunto affixed, this 21st day of November, 19 68

In Presence of
Irene Bresnahan
Irene Bresnahan
Ruth Reindl
Ruth Reindl
By Ray Twining
Vice-President
Ray Twining

Countersigned by: Edmund C. Carns
Secretary
Edmund C. Carns



State of ~~Wisconsin~~
Marinette County

Personally came before me this 21st day of November 1958 Ray Twining, the Vice President of The Ansel Company, a corporation and Edmund C. Carns, the secretary thereof, to the intent to be the parties to as such officers executed the above and foregoing instrument in the name of such corporation, and the corporate seal thereto and acknowledged said instrument to be the duly authorized act of said corporation.



Thomas E. Heenan
Notary Public, Marinette County, Wisconsin
My commission expires April 9, 1960
(To be signed in presence of a Witness)

This instrument was drafted by Atty. John L. Fallon, Attorney at Law

RECORDED
1958 NOV 29 PM 3:41
Ray Twining
REGISTER OF DEEDS
OF MARINETTE COUNTY, WIS.

337878	THE ANSEL COMPANY	TO WHOM IT MAY COME	MARINETTE MARINE CORPORATION	QUITCLAIM DEED	REGISTRY OFFICE, Marinette County, Wis.	Received for Record this 21st day of November 1958 and returned in Vol. 1958 by Deeds Page 1958	1470
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345807
RESOLUTION NO. 18

Read & Approved
to be adopted 5/4/65
VOL 356 PAGE 366 42

WHEREAS, the Board of Public Works of the City of Marinette has recommended to the City Council and the City Plan Commission has concurred that a portion of Ely Street north of the railroad tracks be vacated, and

WHEREAS, the Board of Public Works recommends that the closing of that portion of Ely Street north of the railroad tracks is in the public interest.

NOW, THEREFORE, BE IT RESOLVED, that the vacation of that portion of Ely Street north of the railroad tracks is in the public interest of the City of Marinette.

BE IT FURTHER RESOLVED, that since the public interest requires it, that that part of Ely Street north of the railroad tracks described as follows:

That part of Ely Street in Government Lot 5 in Section 6 of Township 30 North of Range 24 East described as follows, to-wit: Commencing at a 3 1/4 inch pipe at the intersection of the Northeasterly line of the Chicago, Milwaukee, St. Paul and Pacific Railroad right of way and the Northeasterly line of Ely Street and running North 30° 30' East along the said Northeasterly line of Ely Street 65 feet to the place of beginning; thence from said place of beginning deflecting to the left 108° 49' and running 63.39 feet to the Northwesterly line of Ely Street; thence deflecting to the right 108° 49' and running North 30° 30' East along the said Northwesterly line of said Ely Street parallel with the said Northeasterly line of Ely Street to the harbor line of the Menominee River as established by the City of Marinette; thence running Southwesterly along said harbor line to the said Northeasterly line of Ely Street; thence running South 30° 30' West along the said Northeasterly line of Ely Street to the place of beginning

be and the same is hereby vacated and discontinued.

Dated this 4th day of May, 1965.

Resolution introduced and adoption moved by Alderman Carl Smith
Motion for adoption seconded by Alderman Hubert K. ...

On roll call the resolution unanimously adopted.

Edward A. Molestke
Mayor

Attest:

5212 1/2 S - 1103261

John E. Buckert
City Clerk

RECORDED



16D

345808

VOL 356 PAGE 368

RESOLUTION NO. 18
YACHT ALLEY - BLOCK 4 N. LUDINGTONS 3RD ADD.
TO THE MAYOR AND COMMON COUNCIL OF THE CITY OF MARINETTE:

I herewith submit the following resolution and move its adoption:

WHEREAS, the alley running east and west between Madison Avenue and the Chicago & Northwestern Railroad right-of-way has not been used or worked nor money expended thereon for more than five years, and

WHEREAS, said alley was abandoned for more than five years from the date of the recording of the plat by which it was dedicated.

Now, therefore,

BE IT RESOLVED that the alley running east and west through Block 4 in N. Ludington's Third Addition to the City of Marinette be and the same is hereby vacated and discontinued as an alley.

Dated this 17 day of April, 1962.

Adopted unanimously
John R. Doyle
Alderman

Seconded by
Wm. J. ...
Alderman

ATTEST: *(Resolution adopted unanimously)*

John E. ...
City Clerk

1962 JUN - 5 PM
RECORDED

398339

RECORDED

456 403

NOV 23 AM 1951

WARRANTY DEED

THIS INDENTURE, Made by the CITY OF MARINETTE, a municipal corporation organized and existing under the laws of the State of Wisconsin, hereby conveys and warrants to MARINETTE MARINE CORPORATION, a Wisconsin corporation, having its principal place of business at Ely Street, Marinette, Marinette County, Wisconsin, for the sum of One Dollar (\$1.00) and other good and valuable consideration, the following tract of land in Marinette County, State of Wisconsin:

That part of Government Lot Five (5) of Section Six (6), Township Thirty (30) North, Range Twenty-Four (24) East, described as follows: Commencing at the Southeast corner of said Section Six (6); thence North Zero Degrees Forty-Seven Minutes Forty-Four Seconds (0° 47' 44") East, One Thousand Two Hundred Twenty-Eight & 26/100 (1,228.26) feet; thence South Eighty-Seven Degrees Thirty Minutes (87° 30') West, Seven Hundred Forty-Five & 80/100 (745.80) feet; thence North Thirty-Five Degrees Thirty Minutes (35° 30') West, Three Hundred Eighty & 82/100 (380.82) feet; thence North Eleven Degrees Thirty Minutes (11° 30') West, Seven Hundred Thirty-Nine & 86/100 (739.86) feet; thence North Two Degrees Zero Minutes (2° 00') West, Seventy-Seven & 20/100 (77.20) feet, to the North line of Mann Street, as the POINT OF BEGINNING; thence continuing North Two Degrees Zero Minutes (2° 00') West, along the Government Meander Line (and said line extended on the same course), Five Hundred Ninety-Eight & 57/100 (598.57) feet, to an iron pipe; thence South Eighty-Five Degrees Twelve Minutes (85° 12') East, Five Hundred Thirty & 58/100 (530.58) feet; thence South Thirty Degrees Twenty-Eight Minutes (30° 28') West, (on a course parallel with and Four Hundred Twenty & 30/100 (420.30) feet perpendicularly distant West from the partition line referred to in the Deed recorded in Volume Ten (10) of Deeds, Page 323, Oconto County Records), Six Hundred Seven & 88/100 (607.68) feet, to the North line of Mann Street; thence South Eighty-One Degrees Thirty-Two Minutes (81° 32') West, on said North line, Two Hundred Two & 04/100 (202.04) feet, to the POINT OF BEGINNING; together with all land lying between the North line of said premises and the Harbor Line of the Menominee River; situate in the City of Marinette, Marinette County, Wisconsin;

AND

That part of the old slough (now filled) that formerly existed between Government Lots Two (2) and Three (3) of Section Six (6), (on the West), and Government Lot Five (5) of Section Six (6), (on the East), lying in Township

THANKS
12:10
AL

- 2 -

Thirty (30) North, Range Twenty-Four (24) East, described as follows: Commencing at the Southeast corner of said Section Six (6); thence North Zero Degrees Forty-Seven Minutes Forty-Four Seconds (0° 47' 44") East, One Thousand Two Hundred Twenty-Eight & 26/100 (1,228.26) feet; thence South Eighty-Seven Degrees Thirty Minutes (87° 30') West, Seven Hundred Forty-Five & 80/100 (745.80) feet; thence North Thirty-Five Degrees Thirty Minutes (35° 30') West, Three Hundred Eighty & 82/100 (380.82) feet; thence North Eleven Degrees Thirty Minutes (11° 30') West, Seven Hundred Thirty-Nine & 86/100 (739.86) feet; thence North Two Degrees Zero Minutes (2° 00') West, Seventy-Seven & 20/100 (77.20) feet, to the North line of Mann Street, at the POINT OF BEGINNING; thence South Eighty-One Degrees Thirty-Two Minutes (81° 32') West, Twenty-One & 65/100 (21.65) feet; thence North Thirteen Degrees Twenty-Six Minutes (13° 26') West, along and over the sanitary outfall sewer line, Five Hundred Seventy-Three & 17/100 (573.17) feet, to a cross cut mark on the head wall of the outfall line; thence North Seventy-One Degrees Forty-Nine Minutes (71° 49') East, One Hundred Forty & 71/100 (140.71) feet, to the Government Meander Line; thence South Two Degrees Zero Minutes (2° 00') East, along the Government Meander Line, Five Hundred Ninety-Eight & 57/100 (598.57) feet, to the POINT OF BEGINNING, together with all land lying between the North line of said premises and the Harbor Line of the Menominee River; situate in the City of Marinette, Marinette County, Wisconsin.

Subject to all reservations, restrictions and easements of record;

AND

Excepting and reserving to the City of Marinette that portion of land described as follows:

That part of Government Lot Five (5) of Section Six (6), Township Thirty (30) North, Range Twenty-Four (24) East, described as: Commencing at the POINT OF BEGINNING described above; thence South Eighty-One Degrees Thirty-Two Minutes (81° 32') West, Twenty-One & 65/100 (21.65) feet; thence North Thirteen Degrees Twenty-Six Minutes (13° 26') West, along and over the sanitary outfall sewer line, Five Hundred Seventy-Three & 17/100 (573.17) feet, to a cross cut mark on the headwall of the outfall line; thence North Seventy-One Degrees Forty-Nine Minutes (71° 49') East, One Hundred Forty & 71/100 (140.71) feet, to the Government Meander Line; thence South Eighty-Five Degrees Twelve Minutes (85° 12') East, One Hundred Four & 88/100 (104.88) feet; thence South Four Degrees Twenty-Eight Minutes Thirty Seconds (4° 28' 30") West, Five Hundred Eighty-Five & 57/100 (585.57) feet, to the North line of Mann Street; thence South Eighty-One Degrees Thirty-Two Minutes (81° 32') West, on said

North line of Mann Street, Thirty-Eight & 35/100 (38.35) feet, to the POINT OF BEGINNING, together with all land lying between the North line of said premises and the Harbor Line of the Menominee River; situate in the City of Marinette, Marinette County, Wisconsin.

IN WITNESS WHEREOF, the CITY OF MARINETTE has hereunto caused these presents to be signed by Edward J. Parsek, its Mayor, and countersigned by John E. Brickert, its City Clerk, at Marinette, Wisconsin, and its corporate seal to be hereunto affixed, this 23rd day of December, 1976.

SIGNED AND SEALED IN PRESENCE OF:

THE CITY OF MARINETTE BY:

Margaret Harding
Margaret Harding

Edward J. Parsek
Edward J. Parsek, Mayor

COUNTERSIGNED:

Joyce A. Goetsch
Joyce A. Goetsch

John E. Brickert
John E. Brickert, City Clerk

STATE OF WISCONSIN)
: ss.
MARINETTE COUNTY)

Personally came before me, this 23rd day of December, 1976, EDWARD J. PARSEK, Mayor, and JOHN E. BRICKERT, City Clerk of the above-named municipal corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such Mayor and City Clerk of said municipal corporation, and acknowledged that they executed the foregoing instrument as such Mayor and City Clerk of said municipal corporation, by its authority.

F. H. Jabas
F. H. Jabas
Notary Public, Marinette County, Wis.
My Commission Is Permanent

THIS INSTRUMENT WAS DRAFTED BY:
TOPEL, JABAS & FALLER, S.C.
1851 Riverside Avenue, Marinette, Wis. 54143

4.00
Atty:
Chuck
Severson
Marinette
Wisconsin

CERTIFIED SURVEY MAP 1705 VOL 11 PAGE 129

SURVEY IN PART OF GOVERNMENT LOT 2 OF SECTION 5 AND PART OF GOVERNMENT LOT 5 OF SECTION 6, ALL BEING LOCATED IN T30N, R24E, CITY OF MARINETTE, MARINETTE COUNTY, WISCONSIN

Thomas J. McGuire
 THOMAS J. MCGUIRE RLS DATE: 3-28-2000



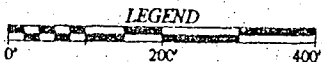
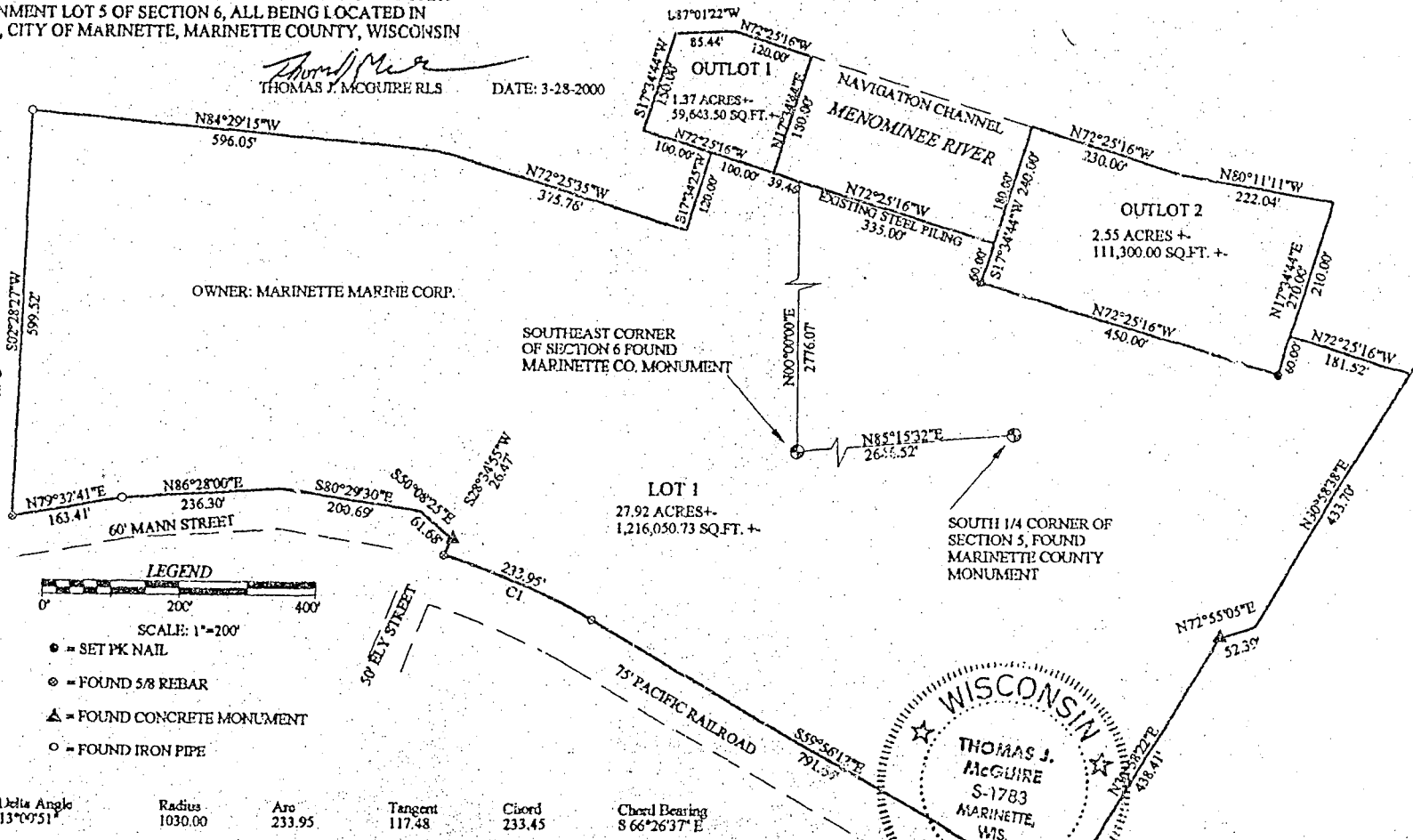
SECTION LINE BETWEEN 5 AND 6 ASSUM. NORTH

Thomas J. McGuire
 REGISTER OF DEEDS OF MARINETTE COUNTY, WIS.

FILED

599908

200 APR 24 PM 2:07

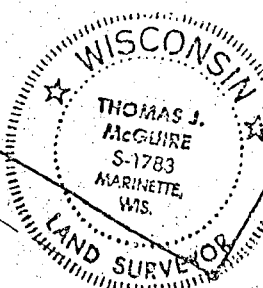


LEGEND

- = SET PK NAIL
- ⊙ = FOUND 5/8 REBAR
- ▲ = FOUND CONCRETE MONUMENT
- = FOUND IRON PIPE

Curve	Delta Angle	Radius	Arc	Tangent	Chord	Chord Bearing
1	13°09'51"	1030.00	233.95	117.48	233.45	8 66°26'37" E

SHEET 1 OF 2



2

SURVEYORS CERTIFICATE:

I, Thomas J. McGuire, Registered land Surveyor, do hereby certify that I have surveyed, divided and mapped all that part of Government lot 2 of Section 5 and part of Government Lot 5 of Section 6, All being located in T30N, R24E, City of Marinette, Marinette County, Wisconsin. described as follows:

Commencing at the Southeast corner of said Section 6; thence N00° 00' 00"E along Section line, a distance of 2776.07 feet to the **POINT OF BEGINNING**; thence N72° 25' 16"W, a distance of 39.46 feet; thence N17° 34' 44"E, a distance of 180.00 feet; thence N72° 25' 16"W, a distance of 120.00 feet; thence S87° 01' 22"W, a distance of 85.44 feet; thence S17° 34' 44"W, a distance of 150.00 feet; thence S72° 24' 51"E, a distance of 103.28 feet; thence S17° 34' 25"W, a distance of 120.00 feet; thence N72° 25' 35"W, a distance of 375.76 feet; thence N84° 29' 15"W, a distance of 596.05 feet; thence S02° 28' 27"W, a distance of 599.52 feet; thence N79° 32' 41"E, a distance of 153.41 feet; thence N86° 28' 00"E, a distance of 236.30 feet; thence S80° 29' 30"E, a distance of 200.69 feet; thence S50° 08' 25"E, a distance of 61.68 feet; thence S28° 34' 55"W, a distance of 26.47 feet to the point of curvature of a non-tangent curve, concave to the Southwest, having a radius of 1030.00 feet, a central angle of 13° 00' 51", and a chord of 233.45 feet bearing S66° 26' 37"E; thence Southeasterly along said curve, a distance of 233.95 feet; thence S59° 56' 12"E, a distance of 791.64 feet; thence N30° 58' 22"E, a distance of 438.41 feet; thence N72° 55' 03"E, a distance of 52.39 feet; thence N30° 58' 38" E, a distance of 433.70 feet; thence N72° 25' 16"W, a distance of 181.52 feet; thence N17° 34' 44"E, a distance of 210.00 feet; thence N80° 11' 11"W, a distance of 222.04 feet; thence N72° 25' 16"W, a distance of 230.00 feet; thence S17° 34' 44"W, a distance of 180.00 feet; thence N72° 25' 16"W, a distance of 295.54 feet to the **POINT OF BEGINNING**.

TOGETHER WITH: All riparian rights

I FURTHER CERTIFY:

That I have made such survey & plat by the direction of Marinette Marine Corp., owner, that the plat is a correct representation of the exterior boundaries of the land surveyed and division thereof. That I have complied with the provisions of Chapter 236,34 of the Wisconsin Statutes, dated this 28th day of March, 2000

Thomas J. McGuire
Thomas J. McGuire RLS

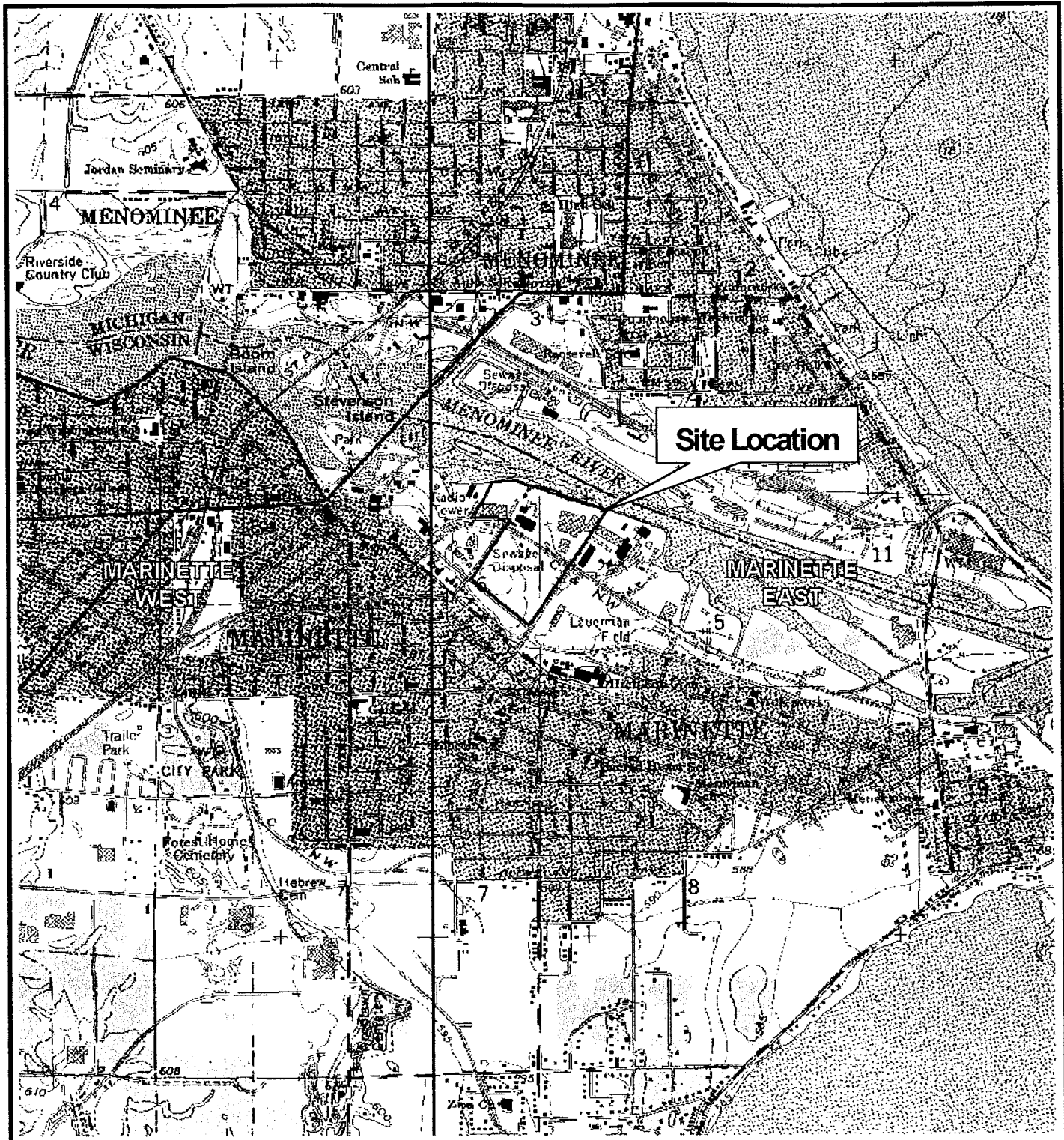
CITY OF MARINETTE APPROVAL:

This certified survey was reviewed and approved on this date:

James M. Aulen
City Clerk



FILED
599908
2000 APR 24 PM 2:07
Thomas J. McGuire
REGISTERED LAND SURVEYOR
OF MARINETTE, WISCONSIN



SOURCE: USGS 7 1/2 Minute Topographic Quadrangles provided by DeLorme
 Marinette East, Wisconsin-Michigan, dated 1976.
 Marinette West, Wisconsin-Michigan, dated 1976.

ENSR
 Consulting • Engineering • Remediation

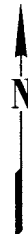
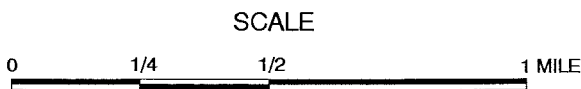
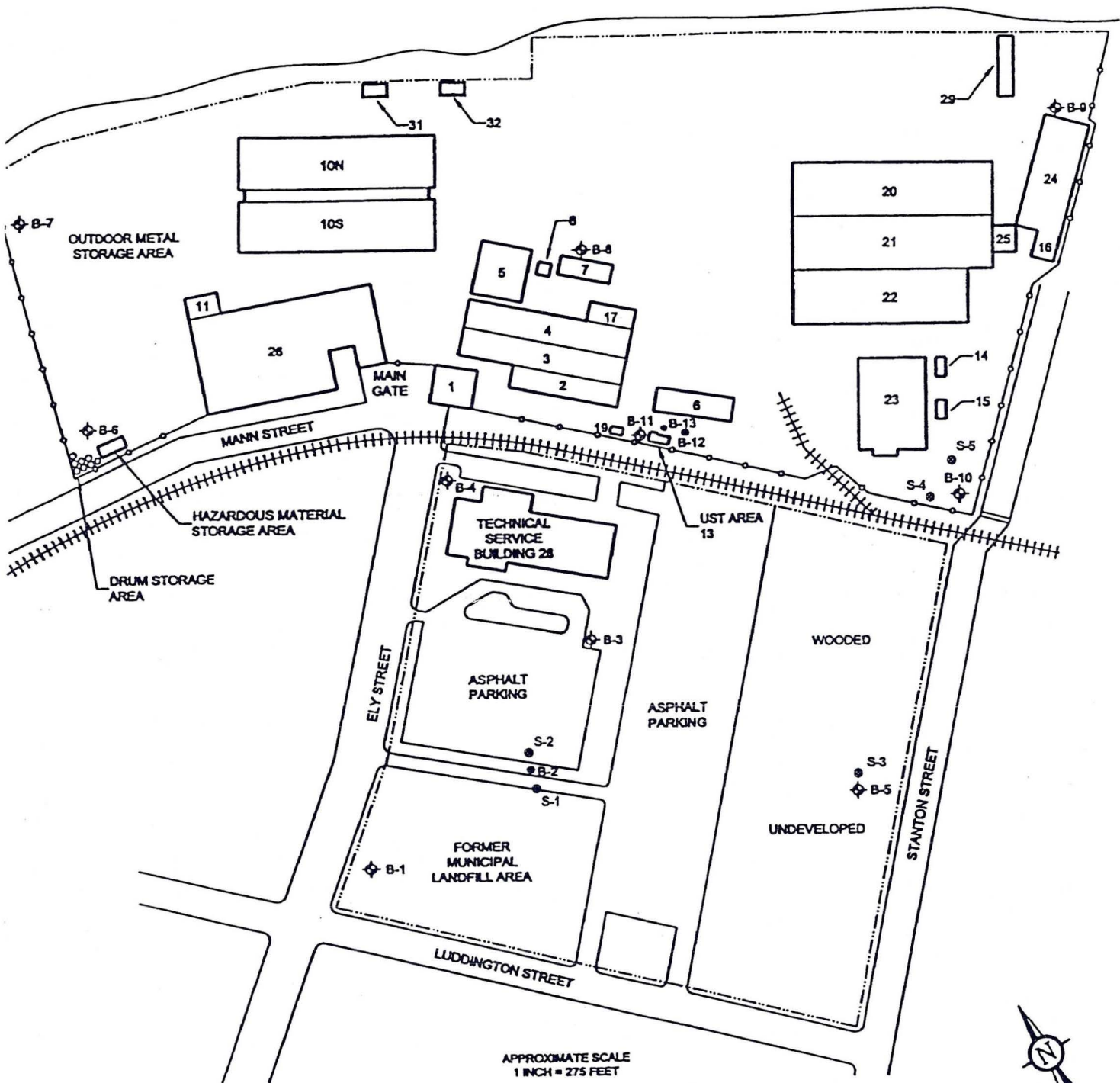


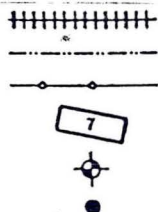
FIGURE 1-1
SITE LOCATION MAP
 Marinette Marine Corporation
 1600 Ely Street
 Marinette, Wisconsin

DRAWN: MLJ/5380	DATE: SEPTEMBER 2000	PROJECT NO: 4425-002	REV: 0
FILE NO.: FIG1.DOC	CHECKED: JRC/5319		

MENOMINEE RIVER



APPROXIMATE SCALE
1 INCH = 275 FEET

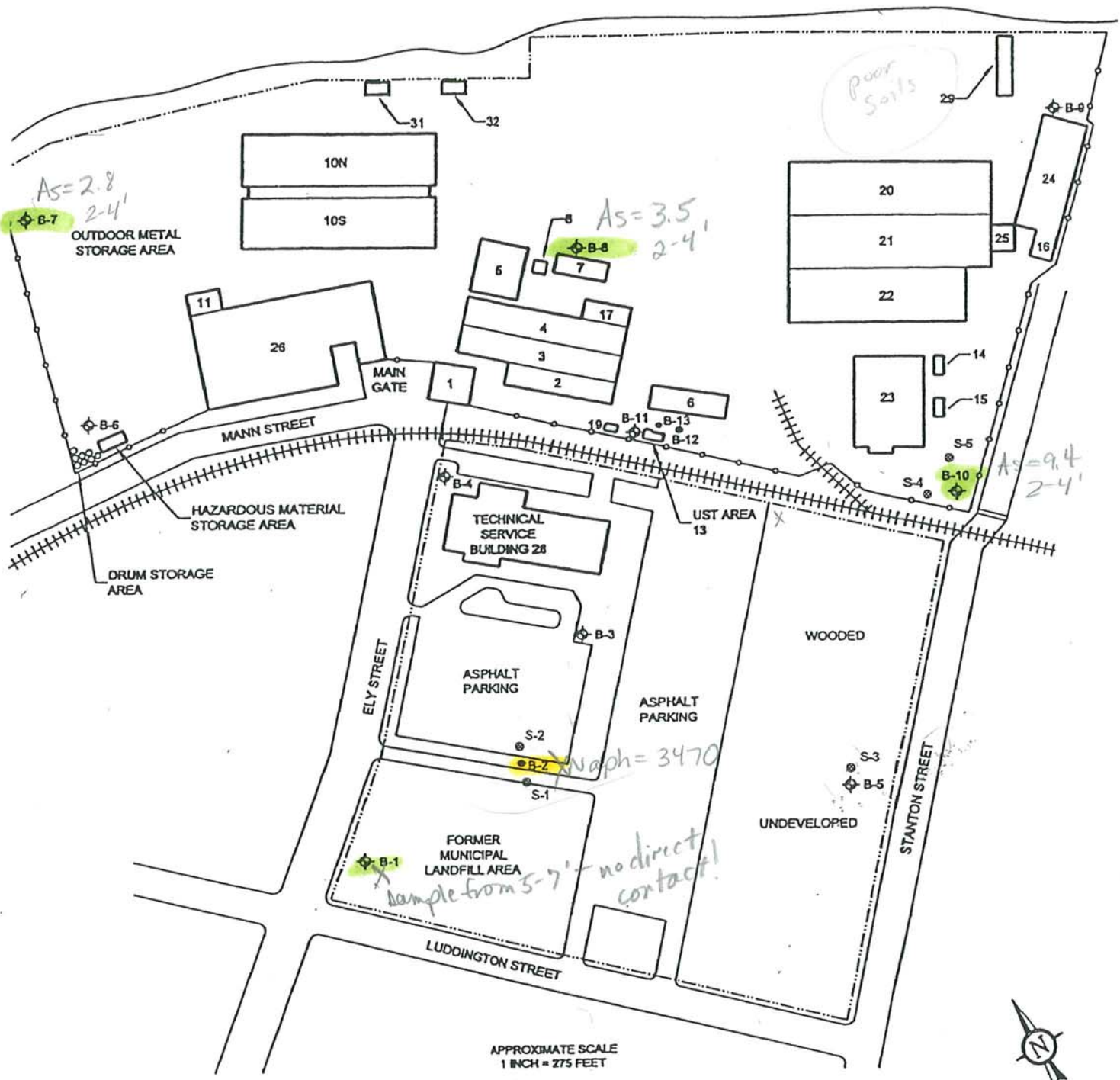


- = RAILROAD TRACKS
- = PROPERTY BOUNDARY
- = FENCE AND PROPERTY BOUNDARY
- = BUILDING WITH BUILDING NUMBER
- = MONITORING WELL LOCATION
- = BORING LOCATION

Marinette Marine Corporation	
FIGURE 2	
SITE DETAIL MAP	
SOURCE: ENSR Phase II ESA, Oct. 2000	DATE: Jan. 10, 2001
Environmental Compliance Consultants, Inc.	BY: N. Versch

Soil

MENOMINEE RIVER



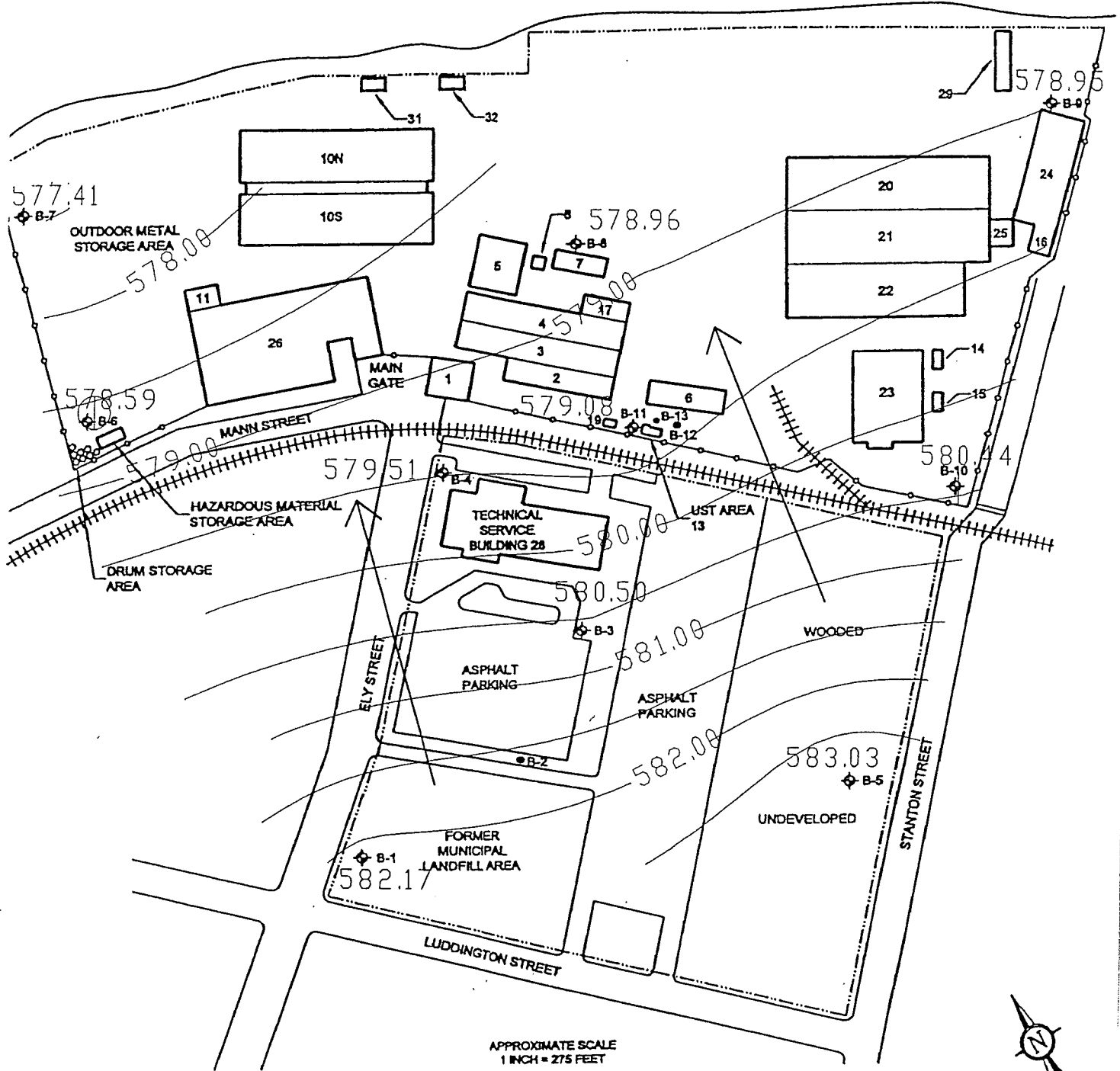
- +++++ = RAILROAD TRACKS
- - - - - = PROPERTY BOUNDARY
- - - - - = FENCE AND PROPERTY BOUNDARY
- [Box with number] = BUILDING WITH BUILDING NUMBER
- ⊕ = MONITORING WELL LOCATION
- = BORING LOCATION

> TABLE 1 values NR 746

> NR 720 (T-2, direct contact)

Marinette Marine Corporation	
FIGURE 2	
SITE DETAIL MAP	
SOURCE: ENSR Phase II ESA, Oct. 2000	DATE: Jan. 10, 2001
Environmental Compliance Consultants, Inc.	BY: N. Versch

MENOMINEE RIVER



APPROXIMATE SCALE
1 INCH = 275 FEET



- +++++ = RAILROAD TRACKS
- - - - - = PROPERTY BOUNDARY
- - - - - = FENCE AND PROPERTY BOUNDARY
- [7] = BUILDING WITH BUILDING NUMBER
- ⊕ = MONITORING WELL LOCATION
- = BORING LOCATION

Marinette Marine Corporation	
FIGURE 4	
GROUNDWATER FLOW MAP, DEC. 2000	
SOURCE: ENSR Phase II ESA, Oct. 2000	DATE: Jan. 10, 2001
Environmental Compliance Consultants, Inc.	BY: N. Versch

TABLE 3-2

Comparison of Soil Analytical Results to Residual Contaminant Levels (RCL)

Marinette Marine Corporation
1600 Ely Street
Marinette, Wisconsin

Handwritten: 74' no RCL

Boring:	B1	B-2	B3	B4	B6	B-7	B-8	B-9
Depth:	5' - 7'	6' - 8'	7.5' - 8'	7.5 - 9	4' - 5'	2' - 4'	2' - 4'	3' - 5'
Date:	9/9/00	9/9/00	9/9/00	9/9/00	9/10/00	9/9/00	9/9/00	9/9/00
METALS in mg/kg								
Arsenic	3.2 ⁽⁴⁾	271	<1.2 ⁽⁵⁾	1.9	1.1	2.8	3.5	<1.1
Barium	26	160	7.5	60	7.8	21	36	8.3
Cadmium	<1.2	10	<1.2	<1.1	<1.1	<1.1	<1.1	<1.1
Chromium	12	21	6	14	7.4	15	11	4.6
Lead	64	440	<1.2	131	<1.1	76	52	1.8
Mercury	0.41	<0.13	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11
Selenium	<1.2	2	<1.2	<1.1	<1.1	<1.1	1.7	<1.1
PVOCs in ug/kg								
1,2,4-Trimethylbenzene	--	--	--	--	--	--	--	--
SVOCs (ACID COMPOUNDS) in mg/kg								
None Detected	<	<	<	<	<	<	<	<
SVOCs (BASE NEUTRAL COMPOUNDS) in mg/kg								
Anthracene	<2.0	<560	<0.40	<0.36	<0.37	<0.35	<0.36	<1.8
Benzo(a)anthracene	<2.0	<560	<0.40	<0.36	<0.37	<0.35	<0.36	<1.8
Benzo(b)fluoranthene	<2.0	<560	<0.40	<0.36	<0.37	<0.35	<0.36	<1.8
Benzo(k)fluoranthene	<2.0	<560	<0.40	<0.36	<0.37	<0.35	<0.36	<1.8
Benzo(a)pyrene	<2.0	<560	<0.40	<0.36	<0.37	<0.35	<0.36	<1.8
Bis(2-ethylhexyl)phthalate	<2.0	<560	<0.40	1	<0.37	<0.35	<0.36	<1.8
Chrysene	<2.0	<560	<0.40	<0.36	<0.37	<0.35	<0.36	<1.8
Di-n-octyl phthalate	<2.0	<560	<0.40	0.64	<0.37	<0.35	<0.36	<1.8
Fluoranthene	<2.0	<560	<0.40	<0.36	<0.37	<0.35	<0.36	<1.8
Indeno(1,2,3-cd)pyrene	<2.0	<560	<0.40	<0.36	<0.37	<0.35	<0.36	<1.8
Phenanthrene	<2.0	<560	<0.40	<0.36	<0.37	<0.35	<0.36	<1.8
Pyrene	<2.0	<560	<0.40	<0.36	<0.37	<0.35	<0.36	<1.8
VOCs in ug/kg								
sec-Butylbenzene	<30	37	<31	<27	<28	<34	<27	<33
1,4-Dichlorobenzene	<30	37	<31	<27	<28	<34	<27	<33
Ethylbenzene	<30	55	<31	<27	<28	<34	<27	<33
Hexachlorobutadiene	<42	<47	<43	<38	<40	<49	<38	<46
Methyl-t-butyl ether	<30	<33	<31	<27	<28	<34	<27	<33
Naphthalene	55	3,470	<31	32	<28	<34	<27	<33
n-Propylbenzene	<30	48	<31	<27	<28	<34	<27	<33
Toluene	45	<33	<31	<27	<28	<34	<27	<33
1,2,4-Trimethylbenzene	<30	360	<31	<27	28	<34	<27	<33
1,3,5-Trimethylbenzene	<30	60	<31	<27	<28	<34	<27	<33
Xylenes, Total	<42	333	<43	<38	<40	<49	<38	<46

Notes

- Residual Contaminant Level (RCL), according to WDNR, NR 720.09, or PAH guidance document.
- Direct Contact. (for Industrial Use) For metals, according to NR 720, Table 2. For SVOCs, according to WDNR document: Soil Cleanup Levels for PAH, Interim Guidance, April 1997.
- Groundwater Pathway. For SVOCs, according to WDNR document: Soil Cleanup Levels for PAHs, Interim Guidance, April 1997. For VOCs, according to NR 720, Table 1.
- Bold number indicates that the concentration exceeds an RCL, Direct Contact or Groundwater Pathway.
- < Indicates that the concentration was not detected above the listed method detection level.
- Indicates not sampled or not analyzed for this compound
- NL Indicates that the parameter does not currently have a RCL.

Handwritten: Direct Contact #5 Not a petrochem tank site

Handwritten: TABLE 1 values for INDICATORS of Residuals in Soil

TABLE 3-2

Comparison of Soil Analytical Results to
Residual Contaminant Levels (RCL)
Marinette Marine Corporation
1600 Ely Street
Marinette, Wisconsin

	Boring: Depth: Date:	B-10	B-11	B12	B12 Dup	B-13	Residual Contaminant Level (RCL) ⁽¹⁾	
		2' - 4' 9/9/00	2' - 4' 9/9/00	5' - 6' 9/9/00	5' - 6' 9/9/00	2.5' - 4' 9/9/00	Direct contact ⁽²⁾	Grnd. Water Pathway ⁽³⁾
METALS in mg/kg								
Arsenic		9.4	-- ⁽⁶⁾	--	--	--	1.6	NL ⁽⁷⁾
Barium		163	--	--	--	--	NL	NL
Cadmium		5.4	--	--	--	--	510	NL
Chromium		258	--	--	--	--	200	NL
Lead		353	1.5	2.5	3.6	1.4	500	NL
Mercury		<0.14	--	--	--	--	NL	NL
Selenium		<1.4	--	--	--	--	NL	NL
PVOCs in ug/kg								
1,2,4-Trimethylbenzene		--	43 <45	<45	<28		NL	NL
SVOCs (ACID COMPOUNDS) in								
None Detected		<	--	--	--	--		
SVOCs (BASE NEUTRAL COMPO								
Anthracene		1.2	--	--	--	--	30,000	3,000
Benzo(a)anthracene		2.3	--	--	--	--	3.9	17
Benzo(b)fluoranthene		2.6	--	--	--	--	3.9	360
Benzo(k)fluoranthene		1.1	--	--	--	--	39	870
Benzo(a)pyrene		2.3	--	--	--	--	0.4	48
Bis(2-ethylhexyl)phthalate		<0.90	--	--	--	--	NL	NL
Chrysene		1.9	--	--	--	--	390	37
Di-n-octyl phthalate		<0.90	--	--	--	--	NL	NL
Fluoranthene		5.4	--	--	--	--	40,000	500
Indeno(1,2,3-cd)pyrene		0.9	--	--	--	--	3.9	680
Phenanthrene		3.3	--	--	--	--	390	1.8
Pyrene		4.5	--	--	--	--	30,000	8,700
VOCs in ug/kg								
sec-Butylbenzene		<41	--	--	--	--	NL	NL
1,4-Dichlorobenzene		<41	--	--	--	--	NL	NL
Ethylbenzene		<41	--	--	--	--	NL	2,900
Hexachlorobutadiene		<57	--	--	--	--	NL	NL
Methyl-t-butyl ether		<41	--	--	--	--	NL	NL
Naphthalene		<41	--	--	--	--	NL	400
n-Propylbenzene		<41	--	--	--	--	NL	NL
Toluene		<41	--	--	--	--	NL	1,500
1,2,4-Trimethylbenzene		<41	--	--	--	--	NL	NL
1,3,5-Trimethylbenzene		<41	--	--	--	--	NL	NL
Xylenes, Total		<57	--	--	--	--	NL	4,100

Notes

1. Residual Contaminant Level (RC)
2. Direct Contact. (for Industrial Us Soil Cleanup Levels for PAH, Int)
3. Groundwater Pathway. For SV April 1997. For VOCs, accordin
4. Bold number indicates that the c
5. < Indicates that the concentratio
6. -- Indicates not sampled or not
7. NL Indicates that the parameter

PROTECTIVE #
OF G.W. PATHWAY

TABLE 4
MARINETTE MARINE CORPORATION
GROUNDWATER ANALYTICAL RESULTS

Sample ID: Collection Date:	B-1				B-3		B-4		B-5		B-6		NR 140.10		
	10-Sep-00	10-Sep-00	22-Dec-00	22-Dec-00	10-Sep-00	22-Dec-00	10-Sep-00	22-Dec-00	10-Sep-00	22-Dec-00	11-Sep-00	22-Dec-00	PAL	ES	
Metals (ug/L)	DUF				DUF										
Arsenic	3	<2.2	5.6	5	70	99	<2.2	1.3	<2.2	0.66	NA	NA	5	50	
Barium	300	150	190	190	270	190	160	91	100	110	NA	NA	400	2000	
Cadmium	<0.14	<0.14	<0.044	<0.044	0.14	0.2	0.46	<0.044	<0.14	<0.044	NA	NA	0.5	5	
Lead	1.5	<1.2	<0.18	<0.18	1.8	0.22	2.4	<0.18	<1.2	<0.18	NA	NA	1.5	15	
Mercury	0.14	<0.049	<0.021	<0.021	0.2	<0.021	<0.049	<0.021	<0.049	<0.021	NA	NA	0.2	2	
PVOCs (ug/L)															
Benzene													0.5	5	
Ethylbenzene													140	700	
Toluene													200	1000	
Xylene, -m, -p															
Xylene, -o															
Xylenes, total													1000	10000	
SVOCs (ug/L)															
Acenaphthene	<2.3	<2.3	<5.7	<5.7	<2.3	<5.7	<2.3	<5.9	<2.3	<5.7	<2.3	<5.7			
2,4-Dimethylphenol	<0.36	<0.36	<6.9	<6.9	<0.36	<6.9	<0.36	<7.1	<0.37	<6.9	<0.36	<6.9			
VOCs (ug/L)															
Benzene	0.57	0.43	<0.29	<0.29	0.85	<0.29	<0.10	<0.29	<0.10	<0.29	2.4	0.47	0.5	5	
sec-Butylbenzene	<0.25	<0.25	<0.20	<0.20	0.29	<0.20	<0.25	<0.20	<0.25	<0.20	<0.25	<0.20			
Chlorobenzene	9.5	7	1.1	1.2	1	2.3	0.44	<0.19	<0.25	<0.19	<0.25	0.21			
Chloroethane	<0.25	<0.25	<0.46	<0.46	<0.25	<0.46	<0.25	<0.46	<0.25	<0.46	<0.25	<0.46	80	400	
4-Chlorotoluene	<0.25	<0.25	<0.21	<0.21	<0.25	<0.21	<0.25	<0.21	<0.25	<0.21	0.36	<0.21			
1,2-Dichlorobenzene	0.31	<0.25	<0.20	<0.20	<0.25	<0.20	<0.25	<0.20	<0.25	<0.20	<0.25	<0.20	60	600	
1,4-Dichlorobenzene	0.95	0.64	<0.31	<0.31	0.28	<0.31	0.36	<0.31	<0.25	<0.31	<0.25	<0.31	15	75	
1,1-Dichloroethane	<0.25	<0.25	<0.17	<0.17	<0.25	<0.17	<0.25	<0.17	<0.25	<0.17	<0.25	<0.17	85	850	
Di-isopropyl ether	<0.25	<0.25	<0.23	<0.23	<0.25	<0.23	<0.25	<0.23	<0.25	<0.23	<0.25	<0.23			
Ethylbenzene	<0.25	<0.25	<0.57	<0.57	<0.25	<0.57	<0.25	<0.57	<0.25	<0.57	0.45	<0.57	140	700	
Isopropylbenzene	<0.25	<0.25	<0.19	<0.19	0.25	<0.19	<0.25	<0.19	<0.25	<0.19	<0.25	<0.19			
p-Isopropyltoluene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25			
Naphthalene	<0.25	<0.25	<0.27	<0.27	2.9	<0.27	<0.25	<0.27	<0.25	<0.27	0.74	<0.27	8	40	
Toluene	<0.10	<0.10	<0.13	<0.13	0.19	<0.13	0.46	<0.13	0.18	<0.13	2.7	0.66	200	1000	
1,2,4-Trimethylbenzene	5	5.4	6.3	7.4	4.5	0.77	<0.10	<0.34	0.69	<0.34	3	1			
1,3,5-Trimethylbenzene	0.8	0.66	0.53	0.77	1.3	<0.29	<0.10	<0.29	0.14	<0.28	0.55	<0.29			
Total Trimethylbenzenes	5.8	6.06	6.83	8.17	5.8	0.77	ND	ND	0.83	ND	3.55	1	96	480	
Xylenes, -m, -p			<0.35	<0.35			<0.35	<0.35			<0.35		0.43		
Xylene, -o			<0.28	<0.28			<0.28	<0.28			<0.28		0.36		
Total Xylenes	<0.25	<0.25	ND	ND	0.63	ND	<0.25	ND	0.43	ND	2.6	0.79	1000	10000	

NR 140.10 Preventive Action Limit (PAL) exceedance = Bold Text

NR 140.10 Enforcement Standard (ES) exceedance = Shaded Text

ND = Detected below laboratory Limits of Detection (LOD)

NA = Not Analyzed

Sampling activities on September 10 and 11, 2000, performed by ENSR. Sampling activities on December 22, 2000, performed by ECCL.

TABLE 4 cont.
MARINETTE MARINE CORPORATION
GROUNDWATER ANALYTICAL RESULTS

DRAFT COPY

Sample ID: Collection Date:	B-7		B-8		B-9		B-10		B-11		NR 140.10	
	11-Sep-00	22-Dec-00	11-Sep-00	22-Dec-00	11-Sep-00	22-Dec-00	11-Sep-00	22-Dec-00	11-Sep-00	22-Dec-00	PAL	ES
Metals (ug/L)												
Arsenic	<2.2	1.8	<2.2	2.1	27	15	1900	570	NA	NA	5	50
Barium	95	150	160	83	170	170	54	120	NA	NA	400	2000
Cadmium	<0.14	<0.044	0.24	<0.044	<0.14	<0.044	0.17	0.14	NA	NA	0.5	5
Lead	<1.2	<0.18	1.5	<0.18	1.4	<0.18	2	0.38	<1.2	<0.18	1.5	15
Mercury	<0.049	<0.021	<0.049	<0.021	0.051	<0.021	<0.049	<0.021	NA	NA	0.2	2
PVOCs (ug/L)												
Benzene									<0.13	<0.35	0.5	5
Ethylbenzene									<0.22	<0.37	140	700
Toluene									<0.20	<0.38	200	1000
Xylene, -m, -p										<0.76		
Xylene, -o										<0.38		
Xylenes, total									<0.23	ND	1000	10000
SVOCs (ug/L)												
Acenaphthene	<2.3	<5.7	<2.3	<8.1	<2.3	<5.7	2.7	<5.7	NA	NA		
2,4-Dimethylphenol	<0.36	<6.9	<0.36	<6.7	0.83	<6.9	<0.36	<6.9	NA	NA		
VOCs (ug/L)												
Benzene	0.39	0.4	<0.10	<0.29	0.88	0.49	<0.10	<0.29			0.5	5
sec-Butylbenzene	<0.25	<0.20	<0.25	<0.20	<0.25	0.52	<0.25	<0.20				
Chlorobenzene	<0.25	<0.19	<0.25	<0.19	3.7	0.4	<0.25	<0.19				
Chloroethane	<0.25	<0.46	<0.25	<0.46	7.1	5.1	<0.25	<0.46			80	400
4-Chlorotoluene	<0.25	<0.21	<0.25	<0.21	<0.25	<0.21	<0.25	<0.21				
1,2-Dichlorobenzene	<0.25	<0.20	<0.25	<0.20	<0.25	<0.20	<0.25	<0.20			60	600
1,4-Dichlorobenzene	<0.25	<0.31	<0.25	<0.31	<0.25	<0.31	<0.25	<0.31			15	75
1,1-Dichloroethane	<0.25	<0.17	<0.25	<0.17	0.52	0.32	<0.25	<0.17			85	850
Di-isopropyl ether	<0.25	<0.23	<0.25	<0.23	0.45	<0.23	<0.25	<0.23				
Ethylbenzene	<0.25	<0.57	<0.25	<0.57	<0.25	<0.57	<0.25	<0.57			140	700
Isopropylbenzene	<0.25	<0.19	<0.25	<0.19	<0.25	0.29	<0.25	<0.19				
p-Isopropyltoluene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	9.6	<0.25				
Naphthalene	<0.25	<0.27	<0.25	<0.27	<0.25	<0.27	<0.25	<0.27			8	40
Toluene	<0.10	<0.13	0.2	<0.13	0.18	0.23	<0.10	<0.13			200	1000
1,2,4-Trimethylbenzene	<0.10	<0.34	<0.10	<0.34	1.4	0.53	<0.10	<0.34				
1,3,5-Trimethylbenzene	<0.10	<0.29	<0.10	<0.29	0.28	0.29	<0.10	<0.29				
Total Trimethylbenzenes	ND	ND	ND	ND	1.68	0.82	ND	ND			96	480
Xylenes, -m, -p		<0.35		<0.35		<0.35		<0.35				
Xylene, -o		<0.28		<0.28		<0.28		<0.28				
Total Xylenes	<0.25	ND	<0.25	ND	<0.25	ND	<0.25	ND			1000	10000

NR 140.10 Preventive Action Limit (PAL) exceedence = Bold Text

NR 140.10 Enforcement Standard (ES) exceedence = Shaded Text

ND = Detected below laboratory Limits of Detection (LOD)

NA = Not Analyzed

Sampling activities on September 10 and 11, 2000, performed by ENSR. Sampling activities on December 22, 2000, performed by ECCI.