GIS REGISTRY
Cover Sheet

May, 2009
(RR 5367)

Source Property Information

CLOSURE DATE: Sep 1, 2009

BRRTS #: **06-71-540825**

FID #: 471031110

ACTIVITY NAME: Mercury Marine Plt 6

DATCP #:

PROPERTY ADDRESS: 1018 Murdock Ave

COMM #:

MUNICIPALITY: Oshkosh, WI

PARCEL ID #: 1218770000

***WTM COORDINATES:**

X: **636138** Y: **397317**

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

WTM COORDINATES REPRESENT:

- ○ Approximate Center Of Contaminant Source
- ◉ Approximate Source Parcel Center

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")*

- ☒ Soil Contamination > *RCL or **SSRCL *(232)*
  - ☐ Contamination in ROW
  - ☐ Off-Source Contamination

  (***note:*** *for list of off-source properties see "Impacted Off-Source Property")*

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 or economic development corporation)*

Monitoring Wells:

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

◉ Yes ○ No ○ N/A

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

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Wisconsin Department of Natural Resources
Oshkosh Service Center
625 E CTY Y, Suite 700
Oshkosh, Wisconsin 54901
Telephone 920-424-3050
FAX 920-424-4404

September 1, 2009

Mr. Craig Dousharm
Mercury Marine
W6250 Pioneer Road
Fond du Lac WI 54936-1939

Subject: A *Certificate of Completion* for a property owned by Brunswick Corporation, Mercury Marine Division, 1018 West Murdock Avenue, Oshkosh, Wisconsin DNR WDNR BRRTS ID# 06-71-540825

Dear Mr. Dousharm:

The Department on Natural Resources ("the Department") is pleased to provide Brunswick Corporation, Mercury Marine Division with a *Certificate of Completion* for remedial actions taken at 1018 West Murdock Avenue, Oshkosh, Wisconsin under the guidelines of s. 292.15(2), Wis. Stats.

The Department appreciates the work undertaken by Brunswick Corporation, Mercury Marine Division, to investigate and restore to the extent practicable the contamination associated with the Property. The exemption provided by the *Certificate of Completion* applies to any successor or assignee of Brunswick Corporation, Mercury Marine Division, if the successor or assignee complies with the appropriate conditions, pursuant to s. 292.15(3), Wis. Adm. Code.

If you have any questions or concerns regarding this letter or the *Certificate of Completion*, please contact me at 920-424-7890 or via email at kevin.mcknight@wisconsin.gov.

Sincerely,

Kevin D. McKnight
Hydrogeologist
Remediation & Redevelopment Program

Attachment: *Certificate of Completion*

cc: File
Michael Prager – RR/3

State of Wisconsin
Department of Natural Resources

CERTIFICATE OF COMPLETION OF RESPONSE ACTIONS UNDER SECTION 292.15(2)(ae), WIS. STATS.

Whereas, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division,** has applied for an exemption from liability under s. 292.15, Wis. Stats., for the property located at **1018 West Murdock Avenue, Oshkosh, Wisconsin**, further described in the legal description found on Attachment A ("the Property");

Whereas, an environmental investigation of the Property has been conducted and has determined that contamination exists at the Property;

Whereas, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division,** has submitted to the Wisconsin Department of Natural Resources ("WDNR") investigation reports and a remedial action plan for the Property which comply with the requirements set forth in chs. NR 700-754, Wis. Adm. Code, consisting of the documents and reports listed in Attachment B;

Whereas, in accordance with s. 292.15(2)(ae), Wis. Stats., the WDNR has determined that an environmental investigation has been conducted which adequately identified and evaluated the nature and extent of the hazardous substance discharges on the Property and WDNR has approved of the remedial action plan for the Property;

Whereas, residual contamination remains at the Property at locations specified in the March 24, 2009 WDNR closure letter, and if soil or groundwater is excavated or managed in the future, the person undertaking the excavation or management must sample the materials at the time of management or excavation in accordance with state and federal laws and rules. If sampling confirms that contamination is present, the person undertaking those actions will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable state and federal laws and rules. In addition, all current and future owners and occupants of the Property need to be aware that excavation or management of the contaminated soil or groundwater may pose an inhalation or other direct contact hazard and

as a result special precautions may need to be taken to prevent a direct contact health threat to humans;

Whereas, a Partial Certificate of Completion that was issued on August 15, 2005 (Attachment C) determined that the response action was complete for the chlorinated solvent contamination on the Property (Bureau for Remediation and Redevelopment Tracking System # 02-71-243330) and provided a limited exemption from liability pursuant to s. 292.15(2)(am), Wis. Stats. This full Certificate of Completion issued pursuant to s. 292.15(2)(ae), Wis. Stats., applies to all discharges of hazardous substances on the Property and is being issued because the remediation of all contamination has been completed;

Whereas, the Property contains soil contamination at depth that exceeds industrial and non-industrial residual contaminant levels ("RCLs") under ch. NR 720, Wis. Adm. Code, and groundwater contamination that exceeds a groundwater quality enforcement standard under ch. NR 140, Wis. Adm. Code, will be included on the WDNR's Geographical Information System Registry of Closed Remediation Sites ("the GIS Registry") pursuant to s. 292.12(3), Wis. Stats. **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division** has submitted to the WDNR all the information necessary to be included on the Registry pursuant to s. NR 726.05(2)(a)3. and s. NR 726.05(3)(a)4., Wis. Adm. Code;

Whereas, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division,** has paid to WDNR the appropriate insurance fee and has submitted a complete insurance application form to obtain coverage under the state's master insurance contract in accordance with s. 292.15(2)(ae)3m., Wis. Stats., and ch. NR 754, Wis. Adm. Code;

Whereas, while residual contamination remains at the Property at depth, the approval of the response action is based on a non-industrial land use classification, per ch. NR 720, Wis. Adm. Code. This would allow for industrial or non-industrial use of the Property, consistent with the limitations specified in the document. As a result, the response action would not need to be re-evaluated to determine if it is protective based on future land uses; and

Whereas, on March 24, 2009, the WNDR determined that response actions necessary to restore the environment to the extent practicable with respect to the discharges and to minimize the harmful effects from the discharges to air, land and waters of the state were completed, except with respect to groundwater contaminated with benzene, ethylbenzene, naphthalene, toluene, trimethylbenzene, trichloroethene, 1,1 dichloroethene, cis-1,2 dichloroethene and vinyl chloride above the ch. NR 140, Wis. Adm. Code, groundwater quality enforcement standard that the WDNR has determined will be brought

into compliance through natural attenuation, in accordance with administrative rules promulgated by the WDNR.

Therefore, based upon the information that has been submitted to the WDNR, the WDNR hereby certifies that the response actions set forth in the WDNR approved remedial action plan for the Property and any other necessary response actions have been completed, except with respect to benzene, ethylbenzene, naphthalene, toluene, trimethylbenzene, trichloroethene, 1,1 dichloroethene, cis-1,2 dichloroethene and vinyl chloride contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards that WDNR has determined will be brought into compliance through natural attenuation, in accordance with rules promulgated by WDNR.

Upon issuance of this Certificate, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division,** and the persons qualified for protection under s. 292.15(3), Wis. Stats., are exempt from the provisions of ss. 289.05(1), (2), (3) and (4), 289.42(1), 289.67, 291.25(1) to (5), 291.29, 291.37, 292.11(3), (4), and (7)(b) and (c) and 292.31(8), Wis. Stats., with respect to the existence of hazardous substances on or originating from the Property, the release of which occurred prior to the date the WDNR approved the environmental investigation required under s. 292.15(2)(ae)1., Wis. Stats. However, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division,** and a person otherwise qualified for protection under s. 292.15(3), Wis. Stats., who owns or controls the Property would no longer qualify for this liability exemption if that person fails to maintain or monitor the Property as required by this Certificate of Completion, the August 15, 2005 partial Certificate of Completion, the March 24, 2009 closure letter, the July 18, 2005 closure letter, s. 292.12, Wis. State., and rules promulgated by the WDNR. Any releases of a hazardous substance to or from the Property that occur after the date that the environmental investigation was approved will be the responsibility of the current Property owner and any other person who possesses or controls that discharge and any person who caused the discharge.

If natural attenuation fails, the insurance coverage which **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division,** obtained under s. 292.15(2)(ae)3m., Wis. Stats., may be used to cover the costs of complying with s. 292.11(2), Wis. Stats., with respect to benzene, ethylbenzene, naphthalene, toluene, trimethylbenzene, trichloroethene, 1,1 dichloroethene, cis-1,2 dichloroethene and vinyl chloride contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards.

The protection from liability provided under s. 292.15(2), Wis. Stats., does not apply to any person who has obtained a Certificate of Completion by fraud or misrepresentation, or by the knowing failure to disclose material information or under circumstances in which **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division,** knew or

should have known about more discharges of hazardous substances than was revealed by the investigation approved by the WDNR.

Nothing in this Certificate or in s. 292.15, Wis. Stats., affects the authority of the WDNR to exercise any powers or duties under applicable laws other than ss. 289.05(1), (2), (3) and (4), 289.42(1), 289.67, 291.25(1) to (5), 291.29, 291.37, 292.11(3), (4), and (7)(b) and (c) and 292.31(8), Wis. Stats., with respect to any release or threatened release of contaminants at the Property, or the right of the WDNR to seek relief available against any person who is not entitled to protection from liability under s. 292.15, Wis. Stats., with respect to such release or threatened release.

SIGNED AND CERTIFIED this 27 day of August, 2009.

Matthew J. Frank, Secretary
Wisconsin Department of Natural Resources

ATTACHMENT A
LEGAL PROPERTY DESCRIPTION
Mercury Marine Plant 6 (former)

The South 190 feet of the Southwest ¼ of the Southeast ¼ of Section 11, T18N R16E lying North of West Murdock Avenue, East of vacated Cedar Street and West of Beech Street. Also Lots 3,4,5,6,7,8,9,12,13 and 14 of Block 6 and Lots 3,4,7 and 8 of Block 7 of Eichstadt Subdivision. Also, the South 285 feet of vacated Cedar Street lying North of West Murdock Avenue. EXCEPTING there from the North 55 feet of Lots 3 and 12 of Block 6 and the North 55 feet of Lots 3 and 7 of Block 7 of Eichstadt Subdivision. All lying in the City of Oshkosh, Winnebago County, Wisconsin.

ATTACHMENT B
INVESTIGATION AND REMEDIAL ACTION PLAN REPORTS
Mercury Marine Plant 6 (former)

1. "Work Plan for a Subsurface Site Assessment at Mercury Marine Plant 6" SIGMA Environmental Services Inc., April 1998

2. "Site UST Closure Assessment" SIGMA Environmental Services Inc., May 4, 1999

3. "Mercury Marine Plant 6-Soil Biofeasibility Results" Facsimile Transmittal, SIGMA Environmental Services Inc., November 23, 2003

4. "Subsurface/Hydrogeologic Investigation Report" SIGMA Environmental Services Inc, February 2000

5. "Pre-Assessment Soil Quality Results" SIGMA Environmental Services Inc., February 22, 2000

6. "Subsurface Investigation Report and Request for Case Closure" SIGMA Environmental Services, Inc., September 2003

7. "Progress Report #1" REI, February 5, 2003 (Petroleum Release)

8. "Request for Closure, Chlorinated Impacts" SIGMA Environmental Services, Inc., March 15, 2005

9. "Phase 1 Environmental Site Assessment" SIGMA Environmental Services Inc., March 2005

10. "Groundwater Monitoring Summary Report" SIGMA Environmental Services Inc., May 2, 2006

11. "Groundwater Monitoring Summary Report" SIGMA Environmental Services Inc., December 19, 2006

12. "Remediation Summary Report" SIGMA Environmental Services Inc., December 22, 2006

13. Remediation Activities Summary Report Update and Case File Closure Request" SIGMA Environmental Services Inc., July 3, 2007

14. " Remediation Activities Update and Case File Closure Request" SIGMA Environmental Services Inc., June 10, 2008

15. "Groundwater Sampling Results" SIGMA Environmental Services Inc., December 9, 2008

16. "Monitoring Well Abandonment Documentation and GIS Submittal" SIGMA Environmental Services Inc., March 19, 2009

ATTACHMENT C
Partial Certificate of Completion
Mercury Marine Plant 6 (former)

See attached copy of the August 15, 2005 Partial Certificate of Completion

State of Wisconsin
Department of Natural Resources

PARTIAL CERTIFICATE OF COMPLETION OF RESPONSE ACTIONS UNDER SECTIONS 292.15(2)(ae) and (am), WIS. STATS.

Whereas, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division,** has applied for an exemption from liability under s. 292.15, Wis. Stats., for the property located at **1018 West Murdock Avenue, Oshkosh Wisconsin**, further specifically described in the legal description found on Attachment A ("the Property");

Whereas, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division,** submitted to the WDNR a request for a Partial Certificate of Completion under ss. 292.15(ae) and (am), Wis. Stats., which allows the WDNR to grant such an exemption even though not all of the Property has been satisfactorily restored or that not all of the harmful effects from a discharge has been minimized, if certain requirements are met;

Whereas, an environmental investigation of the Property has been conducted and the WDNR has determined that a hazardous substance release exists at the Property;

Whereas, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division** has submitted to the Wisconsin Department of Natural Resources ("WDNR") environmental investigation reports for the Property which comply with the requirements set forth in chs. NR 700-754, Wis. Adm. Code, consisting of the documents and reports listed in Attachment B;

Whereas, in accordance with ss. 292.15(2)(ae) and (am), Wis. Stats., the WDNR has determined that an environmental investigation has been conducted which adequately identified and evaluated the nature and extent of the hazardous substance discharges and releases on the Property, and any that may have migrated off the Property;

Whereas, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division** has paid to WDNR the appropriate insurance fee and has submitted a complete insurance application form to obtain coverage under the state's master insurance contract in accordance with s. 292.15(2)(ae)3m., Wis. Stats., and ch. NR 754, Wis. Adm. Code;

Whereas, there are ch. NR 140, Wis. Adm. Code., enforcement standard exceedances on the Property that will be included on the WDNR's geographic information system registry of closed remediation sites and the voluntary party has submitted all the information to the WDNR necessary to be included on this registry pursuant to s. NR 726.05(3)(a)4., Wis. Adm. Code;

Whereas, on **May 17, 2005**, WDNR determined that response actions necessary to restore the environment to the extent practicable with respect to the discharges and minimize the harmful effects from the discharges to the air, land, and waters of the state were completed for the soil and groundwater at the portion of the Property that is contaminated with chlorinated solvents consisting of the following compounds: **Trichloroethene, 1,1 Dichloroethene, cis-1,2 Dichloroethene and Vinyl Chloride**, which are specifically documented in the "Request for Closure, Chlorinated Impacts" report dated March 15, 2005, and identified as case number 02-71-243330;

Whereas, the WDNR has determined that groundwater contaminated with **Trichloroethene, 1,1 Dichloroethene, cis-1,2 Dichloroethene and Vinyl Chloride** contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards will be brought into compliance through natural attenuation, in accordance with rules promulgated by WDNR;

Whereas, WDNR has determined that public health, safety, or the environment will not be endangered by the hazardous substances remaining on or originating from the Property after completion of the response actions taken, as described in the previous paragraph, given the manner in which the Property will be developed and used and any other relevant factors;

Whereas, WDNR has determined that the activities associated with any proposed use or development of the Property will not aggravate or contribute to the discharge of a hazardous substance and will not unduly interfere with, or increase the costs of, restoring the Property and minimizing the harmful effects of the discharge of a hazardous substance; and

Whereas, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division** agrees to cooperate with WDNR to address any problems caused by the hazardous substances remaining on the Property and such cooperation shall include allowing access to the Property or allowing WDNR or its authorized representatives to undertake activities on the Property, including placement of borings, equipment and structures on the Property.

Therefore, based upon the information that has been submitted to the WDNR, the WDNR hereby certifies that the response actions have been completed for the soil and groundwater at the portion of the Property that is contaminated with chlorinated solvents consisting of the following compounds: **Trichloroethene, 1,1 Dichloroethene, cis-1,2 Dichloroethene and Vinyl Chloride**, which are specifically documented in the "Request for Closure, Chlorinated Impacts" report dated March 15, 2005, and identified as case number 02-71-243330.

Upon issuance of this Partial Certificate of Completion, **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division** and the persons qualified for protection under s. 292.15(3), Wis. Stats., are exempt from the provisions ss. 291.37(2), and 292.11(3), (4), and (7)(b) and (c), Wis. Stats., with respect to soil and groundwater at the portion of the Property that is contaminated with chlorinated solvents consisting of the following compounds: **Trichloroethene, 1,1 Dichloroethene, cis-1,2 Dichloroethene and Vinyl Chloride**, which are specifically documented in the "Request for Closure, Chlorinated Impacts" report, dated March 15, 2005, and identified as case number 02-71-243330 and shall not apply to any other hazardous substances other than the four listed chlorinated solvents.

Remaining hazardous substances releases on or originating from the Property and any releases or discharges of a hazardous substance to or from the Property that occur after the date that the environmental investigation was approved will be the responsibility of the current Property owner, any other person who possesses or controls that discharge and any person who caused the discharge.

Brunswick Corporation, a Delaware Corporation, Mercury Marine Division or a person otherwise qualified for protection under s. 292.15(3), Wis. Stats., who owns or controls the Property would no longer qualify for this liability exemption if that person fails to maintain and monitor the Property as required by rules promulgated by the WDNR. The protection from liability provided under s. 292.15(2), Wis. Stats., does not apply to any person who has obtained a Certificate of Completion by fraud or misrepresentation, or by the knowing failure to disclose material information or under circumstances in which **Brunswick Corporation, a Delaware Corporation, Mercury Marine Division** knew or should have known about more discharges of hazardous substance releases than was revealed by the environmental investigation approved by the WDNR.

Nothing in this Partial Certificate of Completion or in s. 292.15, Wis. Stats., affects the authority of the WDNR to exercise any powers or duties under applicable laws other than ss. 291.37(2) and 292.11(3), (4), and (7)(b) and (c), Wis. Stats., with respect to soil and groundwater at the Property that is contaminated with chlorinated solvents consisting of the following compounds: **Trichloroethene, 1,1 Dichloroethene, cis-1,2 Dichloroethene and Vinyl Chloride**, which are specifically documented in the "Request for Closure, Chlorinated Impacts" report dated March 15, 2005, and identified as case number 02-71-243330. Nor does the Partial Certificate of Completion affect the right of the WDNR to seek relief available against any person who is not entitled to protection from liability under s. 292.15, Wis. Stats., with respect to such release or threatened release.

SIGNED AND CERTIFIED this 15th day of August, 2005.

Scott Hassett

Scott Hassett, Secretary
Wisconsin Department of Natural Resources

ATTACHMENT A
LEGAL PROPERTY DESCRIPTION
Mercury Marine Plant 6

The South 190 feet of the Southwest ¼ of the Southeast ¼ of Section 11, T18N R16E lying North of West Murdock Avenue, East of vacated Cedar Street and West of Beech Street. Also Lots 3,4,5,6,7,8,9,12,13 and 14 of Block 6 and Lots 3,4,7 and 8 of Block 7 of Eichstadt Subdivision. Also, the South 285 feet of vacated Cedar Street lying North of West Murdock Avenue. EXCEPTING therefrom the North 55 feet of Lots 3 and 12 of Block 6 and the North 55 feet of Lots 3 and 7 of Block 7 of Eichstadt Subdivision. All lying in the City of Oshkosh, Winnebago County, Wisconsin.

ATTACHMENT B
INVESTIGATION AND REMEDIAL ACTION PLAN REPORTS
Mercury Marine Plant 6

1. "Work Plan for a Subsurface Site Assessment at Mercury Marine Plant 6", SIGMA Environmental Services Inc., April 1998.

2. "Site UST Closure Assessment" SIGMA Environmental Services Inc., May 4, 1999.

3. "Mercury Marine Plant 6-Soil Biofeasibility Results" Facsimile Transmittal, SIGMA Environmental Services Inc., November 23, 2003.

4. "Subsurface/Hydrogeologic Investigation Report" SIGMA Environmental Services Inc, February 2000.

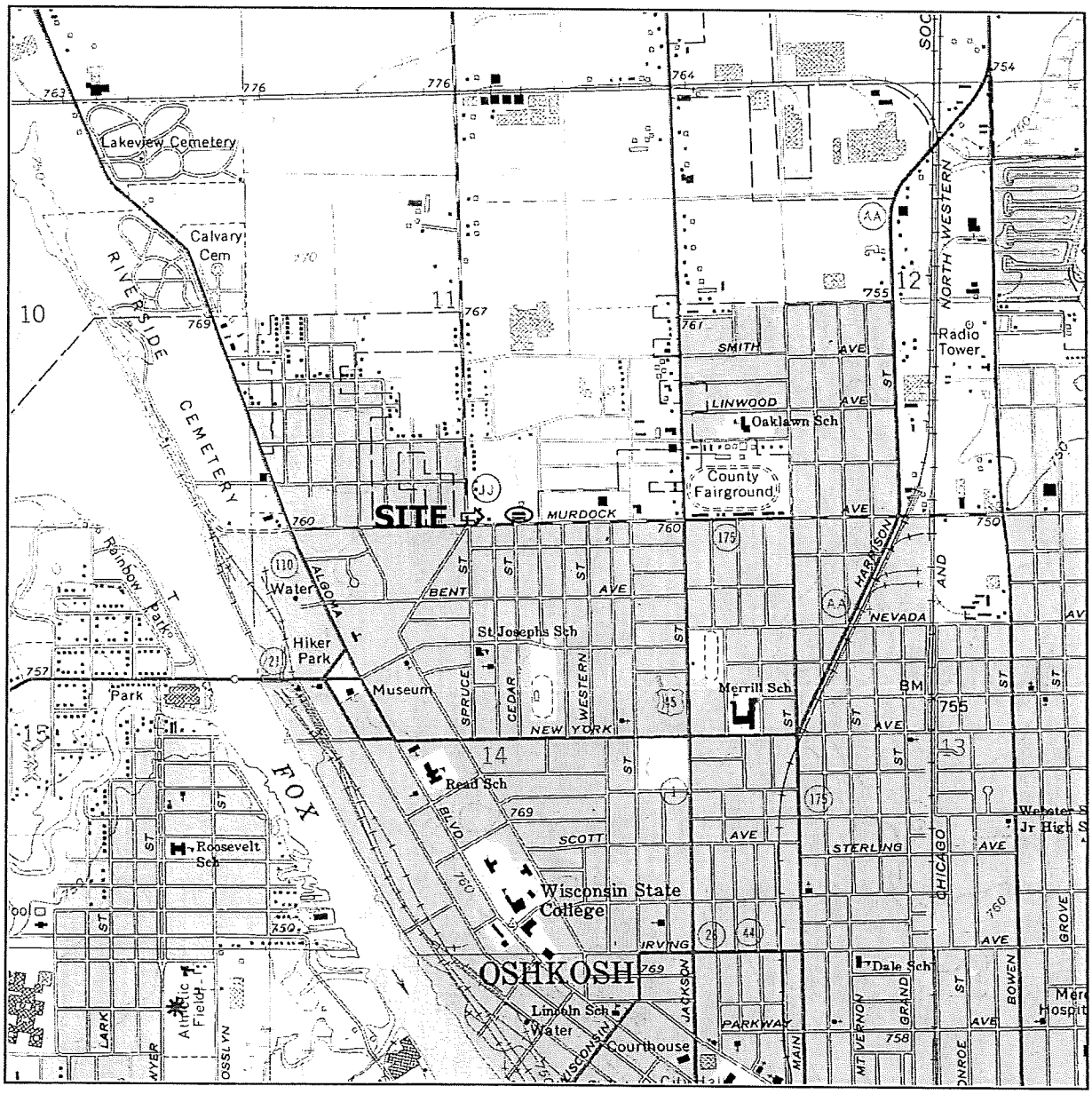
5. "Pre-assessment Soil Quality Results", SIGMA Environmental Services Inc., February 22, 2000.

6. "Subsurface Investigation Report and Request for Case Closure", SIGMA Environmental Services, Inc., September 2003.

7. "Progress Report #1" REI, February 5, 2003 (Petroleum Release)

8. "Request for Closure, Chlorinated Impacts", SIGMA Environmental Services, Inc., March 15, 2005.

9. "Phase 1 Environmental Site Assessment" SIGMA Environmental Services Inc., March 2005.



SE ¼ of the SE ¼ Sec. 11, T18N, R16E. Adapted from U.S.G.S. 7.5 minute series, Oshkosh, Wisconsin, quadrangle (dated 1961, photorevised 1975).

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

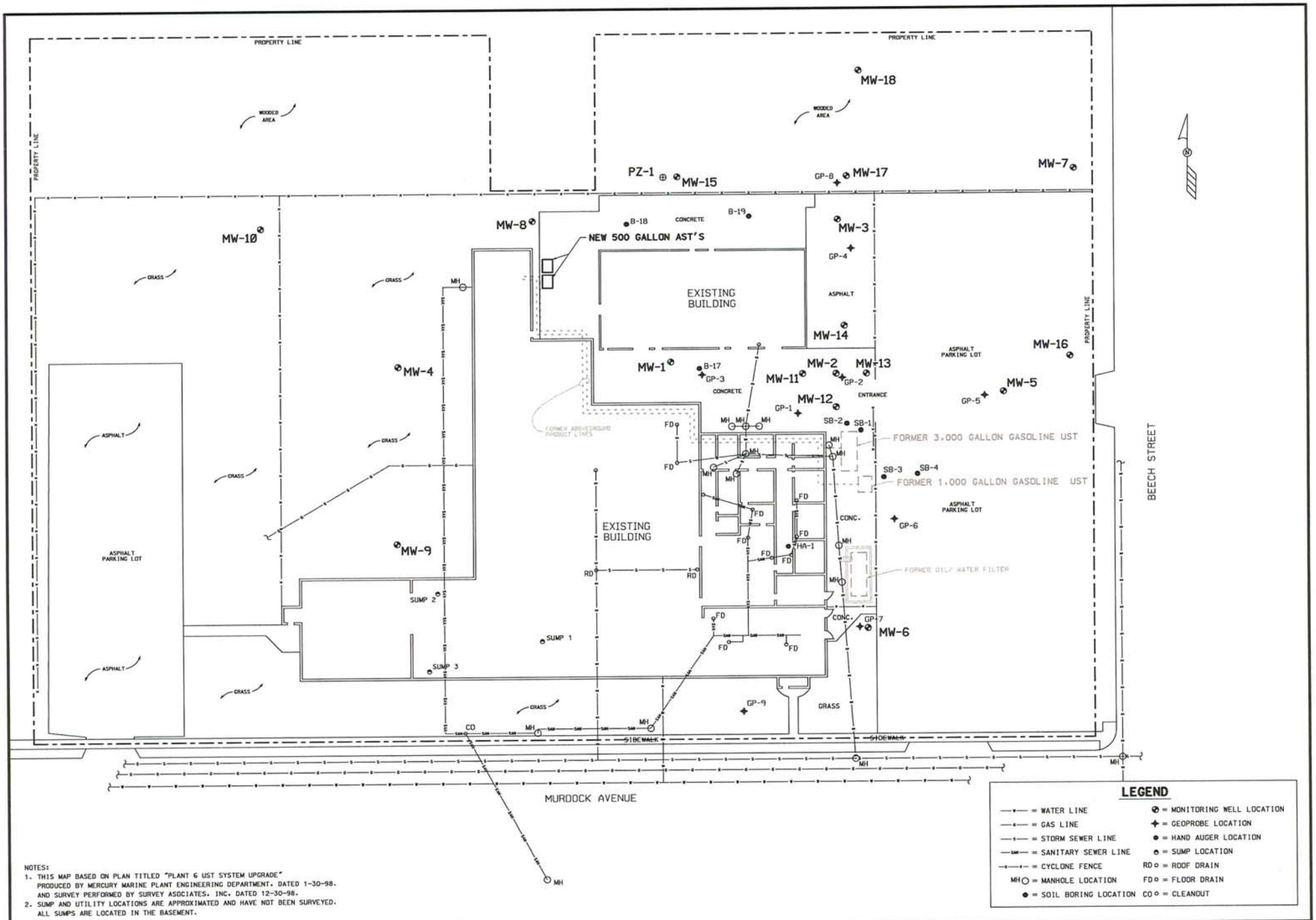
CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

N

Figure 1. Site Location Map
Mercury Marine
1018 Murdock Avenue, Oshkosh, Wisconsin

SIGMA
ENVIRONMENTAL SERVICES INC.

8551fig1.ppt



NOTES:
1. THIS MAP BASED ON PLAN TITLED "PLANT 6 UST SYSTEM UPGRADE" PRODUCED BY MERCURY MARINE PLANT ENGINEERING DEPARTMENT. DATED 1-30-98. AND SURVEY PERFORMED BY SURVEY ASOCIATES. INC. DATED 12-30-98.
2. SUMP AND UTILITY LOCATIONS ARE APPROXIMATED AND HAVE NOT BEEN SURVEYED. ALL SUMPS ARE LOCATED IN THE BASEMENT.

SIGMA ENVIRONMENTAL SERVICES INC.
220 EAST RYAN ROAD
OAK CREEK, WISCONSIN 53154
PHONE : (414) 768 - 7144
1-800-732-4671

SCALE - 1" = 30'- 0" (0' 15' 30' 45' 60')

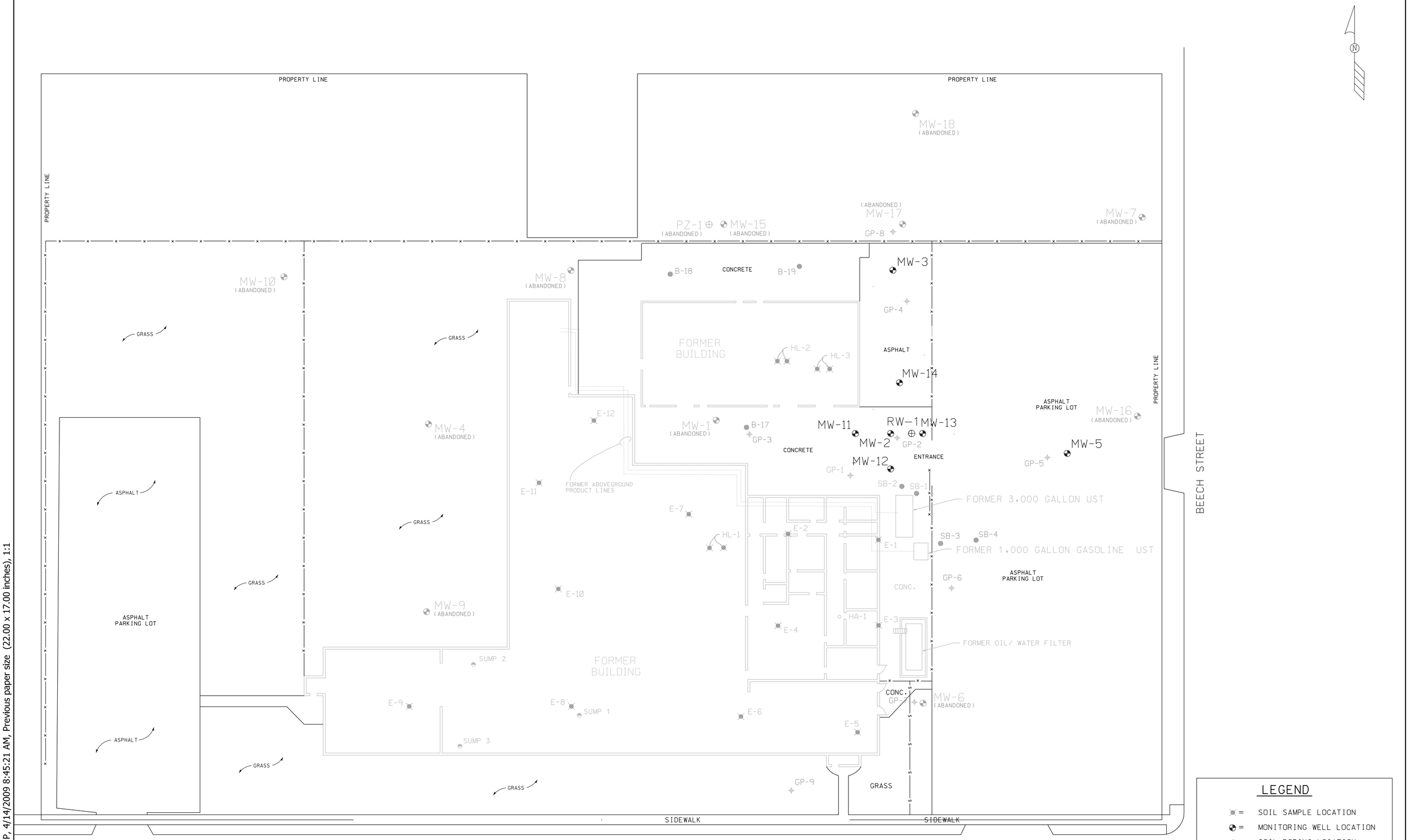
NO	DATE	REVISIONS	BY	APVD

	NAME:	DATE:
DRAWN BY:	BEB	5-4-01
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
SITE PLAN MAP

DRAWING NUMBER
4641-008

FIGURE 2



NOTES:
1. THIS MAP BASED ON PLAN TITLED "PLANT 6 UST SYSTEM UPGRADE" PRODUCED BY MERCURY MARINE PLANT ENGINEERING DEPARTMENT, DATED 1-30-98. AND SURVEY PERFORMED BY SURVEY ASOCIATES, INC, DATED 12-30-98.
2. SUMP LOCATIONS ARE APPROXIMATED AND HAVE NOT BEEN SURVEYED. ALL SUMPS ARE LOCATED IN THE BASEMENT.

LEGEND

- = SOIL SAMPLE LOCATION
- = MONITORING WELL LOCATION
- = SOIL BORING LOCATION
- = SEWER LINE LOCATION
- = CYCLONE FENCE LOCATION
- = GEOPROBE LOCATION
- = HAND AUGER LOCATION
- = SUMP LOCATION

THE SIGMA GROUP
Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, Wisconsin 53233
Phone: 414-643-4200
Fax: 414-643-4210

SCALE – 1" = 30' 0' 15' 30' 45' 60'

NO	DATE	REVISIONS	BY	APVD

	NAME:	DATE:
DRAWN BY:	SJGJ	02/23/09
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6

1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN

SITE PLAN MAP

DRAWING NUMBER
7272-014

FIGURE 2

K:\mercury_marine\7272\7272-014.dwg, F1 SPMP, 4/14/2009 8:45:21 AM, Previous paper size (22.00 x 17.00 inches), 1:1

GIS REGISTRY
Cover Sheet

July, 2008
(RR 5367)

Source Property Information

CLOSURE DATE: Jul 18, 2005

BRRTS #: **02-71-243330**

FID #: 471031110

ACTIVITY NAME: Mercury Marine Plant 6 Chlorinated Solvents Release

DATCP #:

PROPERTY ADDRESS: 1018 Murdock Ave

COMM #:

MUNICIPALITY: Oshkosh, WI 54901

PARCEL ID #: 1218770000

***WTM COORDINATES:**

X: **636178** Y: **397331**

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

WTM COORDINATES REPRESENT:

- (●) Approximate Center Of Contaminant Source
- ( ) Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- [x] Groundwater Contamination > ES *(236)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  *(**note:** for list of off-source properties see "Impacted Off-Source Property")*

- [x] Soil Contamination > *RCL or **SSRCL *(232)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  *(**note:** for list of off-source properties see "Impacted Off-Source Property")*

Land Use Controls:

- [ ] Soil: maintain industrial zoning *(220)*

  *(**note:** soil contamination concentrations between residential 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 or economic development corporation)*

Monitoring wells properly abandoned? *(234)*

(●) Yes ( ) No ( ) N/A

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

GIS Registry Checklist

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 #: 02-71-243330 PARCEL ID #: 1218770000

ACTIVITY NAME: Mercury Marine Plant 6 Chlorinated Solvents Release WTM COORDINATES: X: 636178 Y: 397331

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

- [x] **Closure Letter**
- [ ] **Maintenance Plan** (*if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.*)
- [x] **Conditional Closure Letter**
- [x] **Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

- [x] **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:**
- [x] **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 8.5 x 14 inches unless the map is submitted electronically.

- [x] **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 **Title: Site Location Map**
- [x] **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 Plan Map**
- [x] **Soil Contamination Contour Map:** For sites closing with residual soil contamination, <u>this map is to show the location of all contaminated soil and a single contour</u> 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 #: 4 **Title: Soil Quality Map**

BRRTS #: 02-71-243330 ACTIVITY NAME: Mercury Marine Plant 6 Chlorinated Solvents Release

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 #: 4 **Title: Geologic Cross Section A to A'**

Figure #: 5 **Title: Geologic Cross Section B to B'**

☒ **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 #: 5 **Title: Groundwater Quality Map**

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

Figure #: 3 **Title: Groundwater Contour Map 2-21-2002**

Figure #: **Title:**

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

Tables must be no larger than 8.5 x 14 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 #: 2 **Title: Soil Quality Results**

☒ **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 #: 3 **Title: Groundwater Quality Results BTEX and Detects only**

☒ **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 #: 1 **Title: Groundwater Elevations**

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 #: 02-71-243330 ACTIVITY NAME: Mercury Marine Plant 6 Chlorinated Solvents Release

NOTIFICATIONS

Source Property

- ☐ **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.

- ☐ **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

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 E. CTY Y, Suite 700
Oshkosh, Wisconsin 54901-9731
Telephone 920-424-3050
FAX 920-424-4404

July 18, 2005

Tom Baumgartner
Director, Environmental Compliance
Mercury Marine
W6250 Pioneer Road
Fond du Lac WI 54936-1939

SUBJECT: Final Case Closure By Closure Committee with conditions met
Mercury Marine Plant 6, Chlorinated Solvent Release, 1018 Murdock, Oshkosh, WI
WDNR BRRTS #: 02-71-243330

Dear Mr. Baumgartner:

On April 19, 2005, the Northeast Region Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On April 27, 2005, you were notified that the Closure Committee had granted conditional closure to this case.

On May 17, 2005 the Department received correspondence indicating that you have complied with the conditions of closure. Conditions of closure included the abandonment of site monitoring wells used only for the chlorinated solvent case. Based on the correspondence and data provided, it appears that your case 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://dnr.wi.gov/org/aw/rr/gis/index.htm. If your property is listed on the GIS Registry due to groundwater contamination exceeding ch. NR 140 standards at the time of closure, and you intend to construct or reconstruct a well, you will need Department approval. Department approval is required before construction or reconstruction of a well on a property listed on the GIS Registry, in accordance with s. NR 812.09(4)(w). To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at the web address listed above.

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 920-424-7890.

Sincerely,

Kevin D. McKnight

Digitally signed by Kevin D. McKnight
DN: CN = Kevin D. McKnight, C = US, O = Wisconsin Department of Natural Resources, OU = Remediation and Redevelopment Program
Date: 2005.07.18 09:23:12 -05'00'

Kevin D. McKnight
Hydrogeologist
Remediation & Redevelopment Program

cc: file
Mark Krueger-SIGMA-via email

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 E. CTY Y, Suite 700
Oshkosh, Wisconsin 54901-9731
Telephone 920-424-3050
FAX 920-424-4404

April 27, 2005

Tom Baumgartner
Director, Environmental Compliance
Mercury Marine
W6250 Pioneer Road
Fond du Lac WI 54936-1939

Subject: Conditional Closure Decision with Requirements to Achieve Final Closure
Mercury Marine Plant 6 Chlorinated Release, 1018 Murdock Ave,Oshkosh Wisconsin
WDNR BRRTS # 02-71-243330

Dear Mr. Baumgartner:

On April 19, 2005, the Northeast Region Closure Committee reviewed your request for closure of the case described above. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the chlorinated solvent contamination on the site appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

MONITORING WELL ABANDONMENT

The monitoring wells which are not related to the remaining petroleum remediation case at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to Kevin McKnight on Form 3300-5B found at www.dnr.state.wi.us/org/water/dwg/gw/ or provided by the Department of Natural Resources.

When the above conditions have been satisfied, please submit a letter to let me know that applicable conditions have been met, and your case will be closed. 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 GIS Registry. To review the site on the GIS Registry web page, visit http://maps.dnr.state.wi.us/brrts.

Please be aware that the 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 to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 920-424-7890.

Sincerely,

Kevin D. McKnight

Digitally signed by Kevin D. McKnight
DN: CN = Kevin D. McKnight, C = US, O = Wisconsin Department of Natural Resources, OU = Remediation and Redevelopment Program
Date: 2005.04.27 10:10:30 -05'00'

Kevin D. McKnight
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: file
Mark Krueger-via email
Craig Dousharm-via email

RE: Mercury Marine
1018 W. Murdock Avenue
Oshkosh, WI 54901

LEGAL DESCRIPTION

Lots Three (3), Four (4), Five (5), Six (6), Seven (7), Eight (8), Nine (9), Twelve (12), Thirteen (13) and Fourteen (14) of Block Six (6) AND Lots Three (3), Four (4), Seven (7) and Eight (8) of Block Seven (7) in EICHSTADT SUBDIVISION, in the Twelfth Ward, City of Oshkosh, Winnebago County, Wisconsin.

A parcel of land lying in the South West ¼ of the SOUTH EAST ¼ of Section Eleven (11), Township Eighteen (18) North of Range Sixteen (16) East, in the Twelfth Ward, City of Oshkosh, Winnebago County, Wisconsin, being described as the South One Hundred Ninety (190) feet lying North of Murdock Avenue, East of vacated Cedar Street and West of Beech Street.

AND, the South Two Hundred Eighty-five (285) feet of vacated Cedar Street lying North of Murdock Avenue, being located in the South East ¼ of Section Eleven (11), Township Eighteen (18) North of Range Sixteen (16) East, in the Twelfth Ward, City of Oshkosh, Winnebago County, Wisconsin.

EXCEPTING THEREFROM THE FOLLOWING TWO (2) DESCRIBED PARCELS:

1) The North Fifty-five (55) feet of Lots Three (3) and Twelve (12) of Block Six (6) and that portion of the West ½ of vacated Cedar Street lying East of and within the extended Northerly and Southerly boundary lines of said North Fifty-five (55) feet of Lot Twelve (12) of Block Six (6), all being located in EICHSTADT SUBDIVISION, in the Twelfth Ward, City of Oshkosh, Winnebago County, Wisconsin.

2) The North Fifty-five (55) feet of Lots Three (3) and Seven (7) of Block Seven (7) and that portion of the East ½ of vacated Cedar Street lying West of and within the extended Northerly and Southerly boundary lines of said North Fifty-five (55) feet of Lot Three (3) of Block Seven (7), all being located in EICHSTADT SUBDIVISION, in the Twelfth Ward, City of Oshkosh, Winnebago County, Wisconsin.

TAX KEY NO. 912-1877

WARRANTY DEED

KIEKHAEFER CORPORATION, a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located in the County of Fond du Lac, State of Wisconsin, Grantor, hereby conveys and warrants to KIEKHAEFER CORPORATION, a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, and duly qualified to do business in the State of Wisconsin, located in the County of Fond du Lac, State of Wisconsin, Grantee, for the sum of $10.00 and other good and valuable consideration, the following tracts of land in Winnebago County, Wisconsin:

Lot 10 of Block "D" in the Plat of the WESTERN ADDITION to Oshkosh, in the 1st Ward, City of Oshkosh; excepting therefrom that portion conveyed to the Oshkosh City Railroad Company, as described in Volume 86 on page 193, Winnebago County Registry.

Lot 11, of Block "D" in Plat of the WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh, excepting therefrom that portion heretofore conveyed to the Oshkosh City Railroad Company by Deed recorded in Volume 86 on page 193, Winnebago County Registry.

Lot 12 of Block "D" in PLAT OF THE WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh.

Lots eight (8) and nine (9) of Block "D" in PLAT OF WESTERN ADDITION to City of Oshkosh, in the First Ward, City of Oshkosh.

Lots 3, 4, 5, 6, 7, 8, 9, 12, 13 and 14, of Block 6, and Lots 3 and 7 of Block 7, all in PLAT OF EICHSTADT SUBDIVISION, in the Town of Oshkosh.

A piece of land lying in the Southeast One-Quarter (SE 1/4) of Section Eleven (11), Town Eighteen North (T.18N.), Range Sixteen East (R.16E.), Town of Oshkosh, Winnebago County, State of Wisconsin, described as follows: Starting at an iron pin in the center of the concrete highway on Murdock Street at the intersection with Elmwood Avenue, Spruce Street, and Vinland Street Road; thence Easterly on center line of Murdock Street, six-hundred seventeen and fifty-two hundredths feet (617.52') to a point five tenths feet (.5') east of the East line of Cedar Street extended;

thence North at right angles thirty feet (30') to the North line of Murdock Street which is the point of beginning; thence two hundred thirty-seven and sixty-two hundredths feet (237.62') along the North line of Murdock Street to a point five feet (5') west of the West line of Beech Street extended; thence North at right angles one hundred ninety feet (190'); thence West at right angles two hundred thirty-seven and sixty-two hundredths feet (237.62'); thence South at right angles one-hundred ninety feet (190') to the point of beginning; being of an area of one and three hundredths acres (1.03acres) more or less, and:

Lots four (4) and eight (8), Block seven (7), Eichstadt Subdivision.

This conveyance is made subject to:

1. A quitclaim conveyance of a twelve (12) foot wide strip to the Oshkosh City Railroad Company recorded in Volume 86, page 193, Winnebago County Registry.
2. Protective restrictions dated September 29, 1947 as amended by document dated February 27, 1952, which include a reservation of easement over portions of the lots for utilities. See Plat of Subdivision and documents No. 151110 and No. 191589 recorded in Winnebago County.
3. Setback line established in deed from Harold J. Eichstadt and Marcella M. Eichstadt, his wife, to Kiekhaefer Corporation dated April 28, 1956 and recorded November 2, 1956 as Document No. 239647.
4. Restrictions contained in deed recorded June 19, 1947 in Volume 559, page 313 of Deeds, document No. 146586 in Winnebago County and purported amendments thereto contained in deed dated June 18, 1952 and recorded as document No. 153539 in said County.
5. Suit commenced in the Circuit Court of Winnebago County, State of Wisconsin by Harold J. Eichstadt and Marcella M. Eichstadt, his wife, vs. Kiekhaefer Corporation, et al., Case No. 28309 involving the enforcement of the above-mentioned protective restrictions relating to the Plat of Eichstadts Subdivision.
6. Indenture of Mortgage dated December 1, 1956, made by Kiekhaefer Corporation to Marshall & Ilsley Bank, as trustee, recorded January 17, 1957, as Document No. 241516.
7. Property taxes, general and special, for 1961 and subsequent years.
8. All applicable zoning and building laws and ordinances and all other governmental restrictions and regulations as may be imposed by or under any laws or ordinances or any governmental body or officer.

IN WITNESS WHEREOF, the said Grantor, acting pursuant to the authorization of its Board of Directors and Stockholders, has caused this deed to be signed by E. C. Kiekhaefer, its President, and countersigned by Robert C. Anderegg, its Secretary, and its corporate seal to be hereunto affixed this 29th day of September, 1961.

KIEKHAEFER CORPORATION,
a Wisconsin corporation

By: E. C. Kiekhaefer
President
E. C. Kiekhaefer

Countersigned
By: Robert C. Anderegg
Secretary
Robert C. Anderegg

Signed and sealed in the presence of:

John G. Cavanaugh

Emory S. Naylor, Jr.

This instrument was drafted by Thomas F. Finch.

STATE OF Illinois
COUNTY OF Cook } SS.

On this the 29th day of September, 1961, before me, Gertrude Ludwig, the undersigned officer, personally appeared E. C. Kiekhaefer and Robert C. Anderegg who acknowledged themselves to be, respectively, the President and Secretary of KIEKHAEFER CORPORATION, a Wisconsin corporation, and that they as such President and Secretary, respectively, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by themselves as President and Secretary, respectively.

Gertrude Ludwig
Notary Public
Gertrude Ludwig

My commission expires: May 24, 1964

292223

FIDELITY TITLE

Kiekhaefer Corp
to
Kiekhaefer Corp

Register's Office
Winnebago County, Wis.
Received for record this 2
day of Oct A.D. 1961
at 1:41 o'clock P.M. and
recorded in Vol 990 of RECORDS
on page 54
Register of Deeds

BRUNSWICK CORPORATION
623 SOUTH WABASH AVENUE
CHICAGO 5, ILLINOIS

FEDERAL DOCUMENTARY STAMPS WILL BE AFFIXED TO THIS DEED AFTER RECORDATION.

QUIT CLAIM DEED

THIS INDENTURE, made by KIEKHAEFER CORPORATION, a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located in the County of Fond du Lac, State of Wisconsin, Grantor, hereby Quit Claims to KIEKHAEFER CORPORATION, a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, and duly qualified to do business in the State of Wisconsin, located in the County of Fond du Lac, State of Wisconsin, Grantee, for the sum of $10.00 and other good and valuable consideration, the following tract of land in Winnebago County, Wisconsin:

A parcel of land in Winnebago County, Wisconsin, described as follows: That land comprising the vacated portion of Cedar Street extending 265 feet North from the North line of Murdock Street as shown in the Plat of Eichstadt Subdivision in the Town of Oshkosh.

IN WITNESS WHEREOF, the said Grantor acting pursuant to the authorization of its Board of Directors and stockholders has caused this Deed to be signed on its behalf by E. C. Kiekhaefer, its President, and countersigned by Robert C. Anderegg, its Secretary, and its corporate seal to be hereunto affixed this 29th day of September, 1961.

KIEKHAEFER CORPORATION,
a Wisconsin corporation

(CORPORATE SEAL)

By E. C. Kiekhaefer
President
E. C. Kiekhaefer

Countersigned
By Robert C. Anderegg
Secretary
Robert C. Anderegg

Signed and sealed in
the presence of:

John W. Cavanaugh

Thomas F. Finch

VOL. 990 PAGE 56

This instrument was drafted by Thomas F. Finch.

STATE OF Illinois
COUNTY OF Cook } SS.

On this 29th day of September, 1961, before me, Gertrude Ludwig, the undersigned officer, personally appeared E. C. Kiekhaefer and Robert C. Anderegg who acknowledged themselves to be, respectively, the President and Secretary of Kiekhaefer Corporation, a Wisconsin corporation, and that they as such President and Secretary, respectively, being authorized to do so, executed the foregoing instrument for the purpose therein contained by signing the name of the corporation by themselves as President and Secretary, respectively.

Gertrude Ludwig, Notary Public
Gertrude Ludwig

My Commission Expires:
May 4, 1964

292224

Kiekhaefer Corp.
Kiekhaefer Corp.

Register's Office
Winnebago County, Wis.
Received for record this 5
day of Oct. A.D. 1961
at 2:00 o'clock P.M. and
recorded in Vol. 990 of RECORDS
on Page 56
Rowena K. Tuttle
Register of Deeds

BRUNSWICK CORPORATION
623 SOUTH WABASH AVENUE
CHICAGO 5, ILLINOIS

FEDERAL DOCUMENTARY STAMPS WILL BE AFFIXED TO THIS DEED AFTER RECORDATION.

DOCUMENT NO.

VOL. 864 PAGE 385

This Indenture, Made by DR. CLARENCE S. GONSTEAD and ALVIRA GONSTEAD, husband and wife, grantors of Dane County, Wisconsin, hereby conveys and warrants to KIEKHAEFER CORPORATION, a Wisconsin Corporation, grantee of Ozaukee County, Wisconsin, for the sum of One Dollar and other valuable consideration - the following tract of land in Winnebago County, State of Wisconsin:

A piece of land lying in the Southeast One-Quarter (SE¼) of Section Eleven (11), Town Eighteen North (T.18N.), Range Sixteen East (R.16 E.), Town of Oshkosh, Winnebago County, State of Wisconsin, described as follows:

Starting at an iron pin in the center of the concrete highway on Murdock Street at the intersection with Elmwood Avenue, Spruce Street, and Vinland Street Road; thence Easterly on center line of Murdock Street, six-hundred seventeen and fifty-two hundredths feet (617.52') to a point five tenths feet (.5') east of the East line of Cedar Street extended; thence North at right angles thirty feet (30') to the North line of Murdock Street which is the point of beginning; thence two hundred thirty-seven and sixty-two hundredths feet (237.62') along the North line of Murdock Street to a point five feet (5') west of the West line of Beech Street extended; thence North at right angles one hundred ninety feet (190'); thence West at right angles two hundred thirty-seven and sixty-two hundredths feet (237.62'); thence South at right angles one-hundred ninety feet (190') to the point of beginning; being of an area of one and three hundredths acres (1.03 acres) more or less.

and

Lots four (4) and eight (8), Block seven (7), Eichstadt Subdivision.

Together with all rights appurtenant thereto and the Easterly one-half of vacated Cedar Street abutting the above-described lands.

The conveyance of the above described lands is subject to all legal covenants, restrictions and easements of record and is made pursuant to a certain Lease and Agreement between the parties hereto recorded in the Register of Deeds office for said County July 17, 1952, in Vol. 679 of Deeds, page 635.

The lands above described have been purportedly annexed to the City of Oshkosh, Wisconsin; such annexation being now the subject of litigation.

(This instrument was drafted by Darel E. Simon)

IN WITNESS WHEREOF, the said grantors have hereunto set their hands and seals this 22nd day of April, A. D., 19 58

SIGNED AND SEALED IN PRESENCE OF

Warren E. Kuehling
Warren E. Kuehling

Hazel Borstad
Hazel Borstad

Dr. Clarence S. Gonstead (SEAL)
Dr. Clarence S. Gonstead

Alvira Gonstead (SEAL)
Alvira Gonstead

(SEAL)

(SEAL)

STATE OF WISCONSIN,
Dane County, } ss.

Personally came before me, this 22nd day of April, A. D., 1958 the above named Dr. Clarence S. Gonstead and Alvira Gonstead, husband and wife, to me known to be the persons who executed the foregoing instrument and acknowledged the same.

Received for Record this day of A. D., 19 at o'clock M.

(SEAL)

Warren E. Kuehling
Notary Public Warren E. Kuehling
Dane County, Wis.
My commission expires Aug 3 A. D., 19 58

Register of Deeds,

Deputy Register of Deeds.

WARRANTY DEED—STATE OF WISCONSIN, FORM NO. 9

NO. 254219

Dr. Clarence Gonstead

TO

Kiekhaefer Corp.

WARRANTY DEED

REGISTER'S OFFICE,
STATE OF WISCONSIN,
WINNEBAGO County.

Received for Record this 30th day of April A. D., 19 38 at 3:02 o'clock P M., and recorded in Vol. 864 of Deeds on Page 385

Bernice L. Fuller
Register of Deeds.

Deputy.

RETURN TO
HARRY H. SCHMITT ABSTRACT CO.

chg
1.50

VOL 864 PAGE 386

WARRANTY DEED

STATE OF WISCONSIN — FORM No. 9

Section 237.16 Wisconsin Statutes

VOL 831 PAGE 585

This Indenture,

Made by Harold J. Eichstadt and Marcella M. Eichstadt, his wife,

grantor s, of Winnebago County, Wisconsin, hereby conveys and warrants to Kiekhaefer Corporation, a Wisconsin corporation, with principal place of business at Cedarburg, Wisconsin,

grantee, of Ozaukee County, Wisconsin, for the sum of One Dollar ($1.00) and other valuable consideration- - - - - Dollars, the following tract of land in Winnebago County, State of Wisconsin:

Lots Three (3), Four (4), Five (5), Six (6), Seven (7), Eight (8), Nine (9), Twelve (12), Thirteen (13) and Fourteen (14) of Block Six (6) and Lots Three (3) and Seven (7) of Block Seven (7), PLAT OF EICHSTADT SUBDIVISION, Town of Oshkosh, together with that land comprising the vacated portion of Cedar Street extending 265 Feet North from the North line of Murdock Street, Town of Oshkosh.

Subject, however, to the condition that in the event said Lots 5 and 6 of Block 6 aforesaid are used by Grantee, its successors or assigns for factory, manufacturing or laboratory purposes, said Grantee, its successors or assigns shall not build within 15 feet of the West line of said Lots 5 and 6 of Block 6, such setback building line of 15 feet being hereby established.

This deed given subject to protective covenants recorded November 29, 1947, in Volume 556, at page 599, et seq. and following, Document No. 151110, and amendments to protective covenants recorded in Volume 679, page 269, Document No. 191589, Winnebago County Registry.

In Witness Whereof, the said grantor s have hereunto set their hands and seals this 28th day of April, A. D., 19 56

SIGNED AND SEALED IN PRESENCE OF

Harry E. Meyer Jr.
Harry E. Meyer, Jr.

Frances Bartel
Frances Bartel

Harold J. Eichstadt (SEAL)
Harold J. Eichstadt

Marcella M. Eichstadt (SEAL)
Marcella M. Eichstadt

(SEAL)

(SEAL)

State of Wisconsin,
Winnebago County. } ss.

Personally came before me, this 28th day of April, A. D., 19 56

the above named Harold J. Eichstadt and Marcella M. Eichstadt, his wife,

to be known to be the persons who executed the foregoing instrument and acknowledged the same.

Harry E. Meyer Jr.
Harry E. Meyer, Jr.
Notary Public, Winnebago County, Wis.
My commission expires February 16, A. D., 19 58

(Section 59.51 (1) of the Wisconsin Statutes provides that all instruments to be recorded shall have plainly printed or typewritten thereon the names of the grantors, grantees, witnesses and notary)

No. 239647

Harold J. Eichstadt and
Marcella M. Eichstadt, his wife,
TO
Kiekhaefer Corporation, a
Wisconsin corporation,

Premises See description on
reverse side.

Warranty Deed

This Instrument should be immediately placed upon record to avoid future trouble and litigation.

REGISTER'S OFFICE,
State of Wisconsin,
WINNEBAGO County, }

Received for Record this 2nd day of November, A.D. 1956, at 8:06 o'clock A.M., and recorded in Vol. 831 of Deeds on page 583.

Bernice L. Fuller
Register of Deeds

Deputy.

EDGARTON LAW OFFICES
509 EMPIRE BUILDING
FOND DU LAC, WISCONSIN

Paid $1.50

239647

VOL 831 PAGE 586

(Continued)

HIGHWAY ORDER

Pursuant to Resolution duly adopted by the Town Board of the Town of Oshkosh, Winnebago County, Wisconsin, at a meeting of said Board duly noticed and held pursuant to such notice on March 8, 1956, at the Town Hall in the Town of Oshkosh, Winnebago County, Wisconsin:

IT IS HEREBY ORDERED by the Town Board of Supervisors, Town of Oshkosh, Winnebago County, Wisconsin, that that portion of Cedar Street in the PLAT OF EICHSTADT SUBDIVISION, in the Town of Oshkosh, Winnebago County, Wisconsin, extending 265 feet North from the North line of Murdock Street, on which the following described lands abut:

> Lots Nine (9), Thirteen (13) and Fourteen (14) of Block Six (6) and Lot Four (4) of Block Seven (7), PLAT OF EICHSTADT SUBDIVISION, Town of Oshkosh, Winnebago County, Wisconsin.
>
> Commencing at the intersection of the North line of Murdock Street with the East line of Cedar Street, the point of beginning, thence North along the East line of Cedar Street 190 Feet; thence East parallel with the North line of Murdock Street 237.6 Feet to the West line of Beech Street, thence South along the West line of Beech Street 190 Feet to the intersection of said East line with the North line of Murdock Street, thence West along the North line of Murdock Street 237.6 Feet to the place of beginning, being part of the Southeast 1/4, Section 11-18-16, Town of Oshkosh, Winnebago County, Wisconsin,

is hereby authorized and directed to be and is hereby discontinued.

That this order is granted as the Town Board deems the issuance of such order best for the public good, and is given pursuant to authorization and procedure contained in Chapter 80 of the Wisconsin Statutes, in such case made and provided.

Dated this 8th day of March, 1956.

TOWN BOARD OF SUPERVISORS
TOWN OF OSHKOSH
WINNEBAGO COUNTY, WISCONSIN.

By: Art Rickman
Chairman

Guy Grundy
Supervisor

Forrest Williams
Supervisor

Register of Deeds
Winnebago County, Wis.
Received for record
March 22 1956
at 10:00 A.M. and recorded
in Vol. 14 of Misc. Records
on page 22
Register of Deeds

0315535

STATE OF WISCONSIN)

COUNTY OF WINNEBAGO) SS

CITY OF OSHKOSH)

I, Donna C. Serwas, Clerk for the City of Oshkosh, Winnebago County, Wisconsin, do hereby certify that the annexed resolution is a true and correct copy of the original on file in my office, adopted by the Common Council of the City of Oshkosh, Wisconsin, at a regular meeting held on September 4, 19 86.

Witness my hand and the Corporation seal of the City of Oshkosh, Wisconsin, this 9th day of September, 19 86.

Donna C. Serwas

City Clerk of the City of Oshkosh
Winnebago County, Wisconsin

SEPTEMBER 4, 1986 # 260 RESOLUTION

(CARRIED_____LOST_____LAID OVER_____WITHDRAWN_____)

PURPOSE: FINAL RESOLUTION VACATING PORTION OF COLUMBIA AVENUE & CEDAR STREET

INITIATED BY: HAROLD EICHSTADT & MERCURY MARINE

PLAN COMMISSION RECOMMENDATION: Approved 8-0

WHEREAS, pursuant to Section 66.296(2) of Wisconsin Statutes, the Common Council has heretofore initiated proceedings on July 17, 1986 at a regular meeting of the Common Council to vacate and discontinue the following described portion of Columbia Avenue and Cedar Street:

COLUMBIA AVENUE
That portion of Columbia Avenue lying east of the easterly right-of-way line of Walnut Street and west of the westerly right-of-way line of Beech Street, 12th Ward, City of Oshkosh, Winnebago County, Wisconsin.

CEDAR STREET
That portion of Cedar Street extending 225 feet from the south right-of-way line of Columbia Avenue, 12th Ward, City of Oshkosh, Winnebago County, Wisconsin.

WHEREAS, a public hearing on the passage of such resolution has been set by the Common Council, which hearing was set for 7:00 PM in the Council Chambers of the City Hall, Oshkosh, Wisconsin, on the 4th day of September, 1986, and written notice of such meeting was duly served on the owners of all of the frontage of the lots and lands abutting upon that portion thereof sought to be discontinued as provided by law; and

WHEREAS, a public hearing was duly held pursuant to said notice at the time and place therefore affixed and all persons so served and interested were then and there given an opportunity to be heard; and

WHEREAS, a proper notice of the pendency of said petition for vacation and discontinuance and map covering the proposed vacation was duly filed in the Office of the Register of Deeds for Winnebago County, as required by the Wisconsin Statutes; and

WHEREAS, the lots and lands abutting on said street affected by this resolution are all in the 12th Ward, City of Oshkosh, the description of said street heretofore set out in this Resolution.

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Oshkosh that it is hereby declared that since public interest requires it, the following described street in the 12th Ward, City of Oshkosh, Winnebago County, Wisconsin, is hereby vacated and discontinued, reserving unto the City of Oshkosh the right to maintain, service, repair, add or replace all sanitary sewer, storm sewer, water and gas mains and fittings in said vacated street:

COLUMBIA AVENUE
That portion of Columbia Avenue lying east of the easterly right-of-way line of Walnut Street and west of the westerly right-of-way line of Beech Street, 12th Ward, City of Oshkosh, Winnebago County, Wisconsin.

CEDAR STREET
That portion of Cedar Street extending 225 feet from the south right-of-way line of Columbia Avenue, 12th Ward, City of Oshkosh, Winnebago County, Wisconsin.

BE IT FURTHER RESOLVED that the City Clerk record a certified copy of this Resolution accompanied with a map showing the location of said vacated street in the Office of the Register of Deeds for Winnebago County.

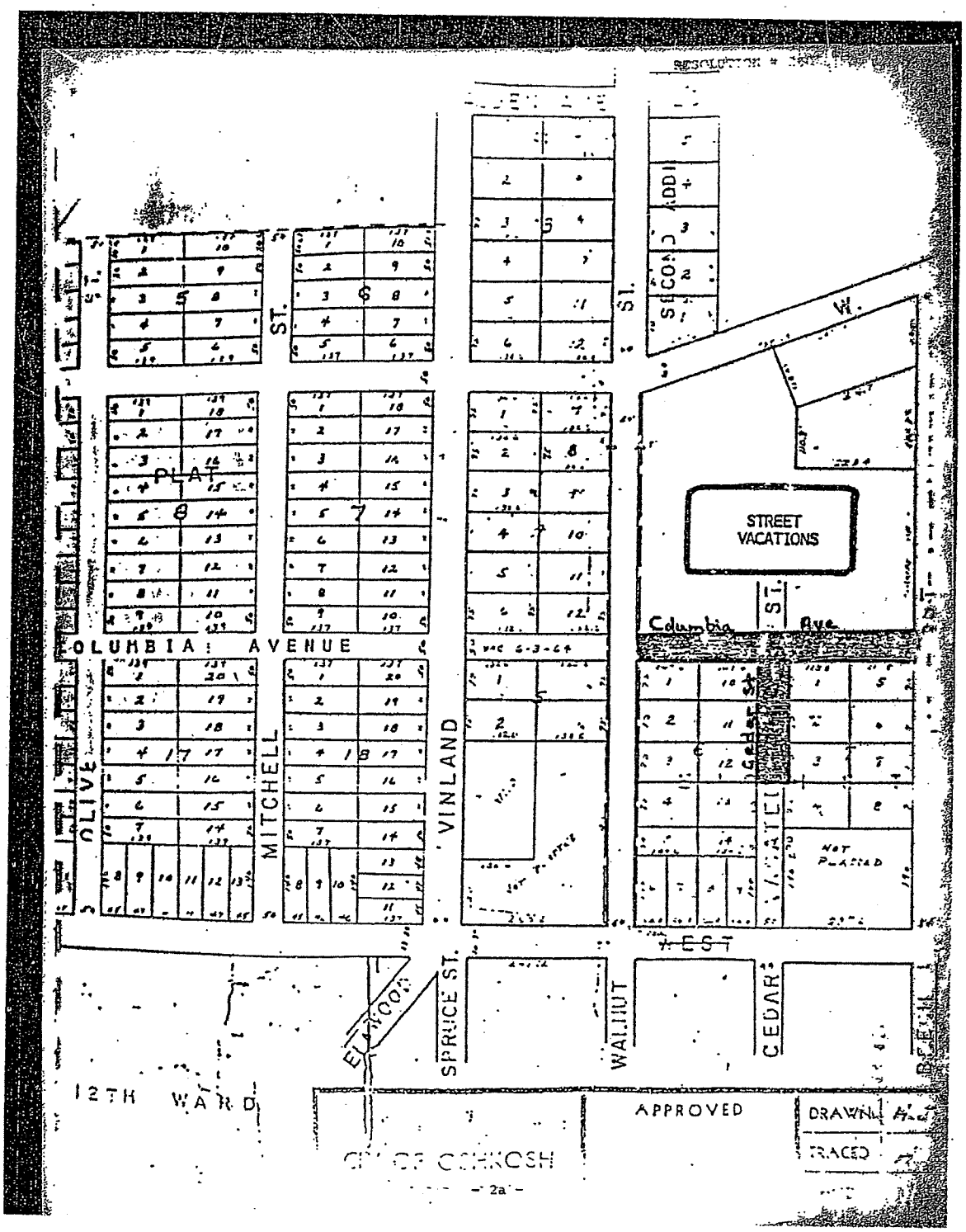
661612 11/11

FILE

Register's Office
Winnebago County, Wis.
Received for record this 10th
day of Sept. A.D., 1986
at 8:40 o'clock A M. and
recorded in Vol. 154-C of R.P.
on page 10.
Marjorie Dahms
Register of Deeds

Oshkosh C. Clerk

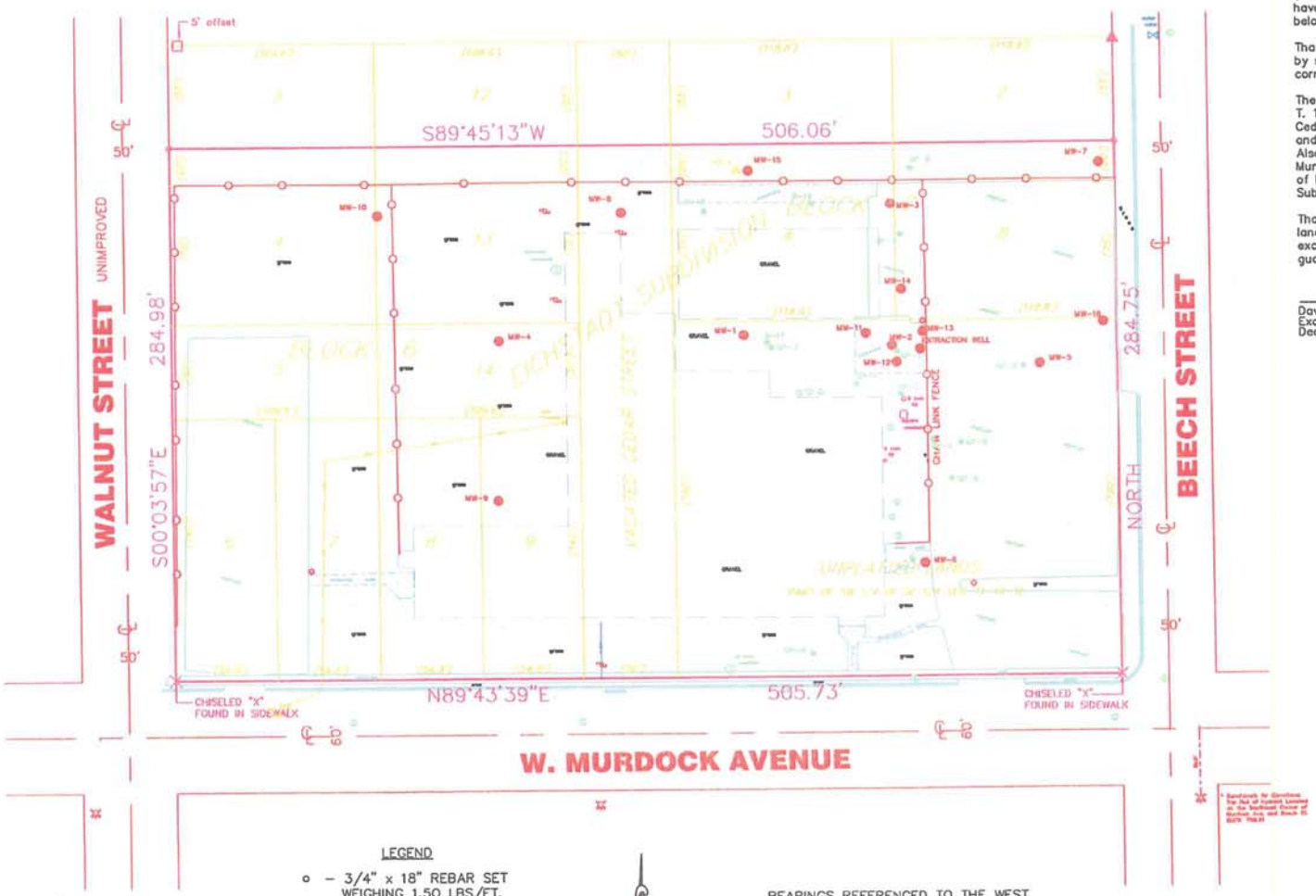
Ubg 10


STREET VACATIONS
COLUMBIA AVENUE
Columbia Ave.
OLIVE
MITCHELL
VINLAND
ST.
SECOND ADDI
PLAT
NOT PLATTED
WEST
ELMWOOD
SPRUCE ST.
WALNUT
CEDAR
12TH WARD
APPROVED
DRAWN
TRACED
CITY OF OSHKOSH
2a

MERCURY

PLANT 6 - 1018 W. MURDOCK AVE. - OSHKOSH, WI.

144,111 sq.ft. - 3.30 acres



LEGEND

o – 3/4" x 18" REBAR SET WEIGHING 1.50 LBS/FT.

▲ – 1" IRON PIPE FOUND IN PLACE.

□ – 1.5" REBAR FOUND.

(75')– PLAT DISTANCE

BEARINGS REFERENCED TO THE WEST RIGHT-OF-WAY LINE OF BEECH STREET, ASSUMED NORTH.

1" = 1

2 0 3 4

SCALE FEET

PROPERTY SURVEY FOR:

MERCURY MARINE

SURVEYOR'S CERTIFICATE

I, David H. Jacob, Registered Land Surveyor, hereby certify that on this date I have completed a survey for Mercury Marine of a parcel of land described below.

That I have marked the corners or boundaries of said parcel on the ground by setting iron stakes as shown on the map and that the following is the correct description as surveyed and staked out.

The South 190 feet of the Southwest 1/4 of the Southeast 1/4 of Section 11, T. 18 N.–R. 16 E. lying North of West Murdock Avenue, East of vacated Cedar Street and West of Beech Street. Also Lots 3, 4, 5, 6, 7, 8, 9, 12, 13, and 14 of Block 6 and Lots 3, 4, 7 and 8 of Block 7 of Eichstadt Subdivision. Also, the South 285 feet of vacated Cedar Street lying North of West Murdock Avenue. EXCEPTING therefrom the North 55 feet of Lots 3 and 12 of Block 6 and the North 55 feet of Lots 3 and 7 of Block 7 of Eichstadt Subdivision. All lying in the City of Oshkosh, Winnebago County, Wisconsin.

That such survey is a correct representation of all the exterior boundaries of land surveyed and principal buildings thereon. This survey is made for the exclusive use of the owners and those who purchase, mortgage, or guarantee title thereto, within one year from the date hereon.

David H. Jacob, RLS
Excel Engineering, Inc.
December 30, 2004.

PROJECT NO. 409540

EXCEL ENGINEERING INC.
100 CAMELOT DRIVE
FOND DU LAC, WI 54935
PH: (920) 926-9800
FAX: (920) 926-9801

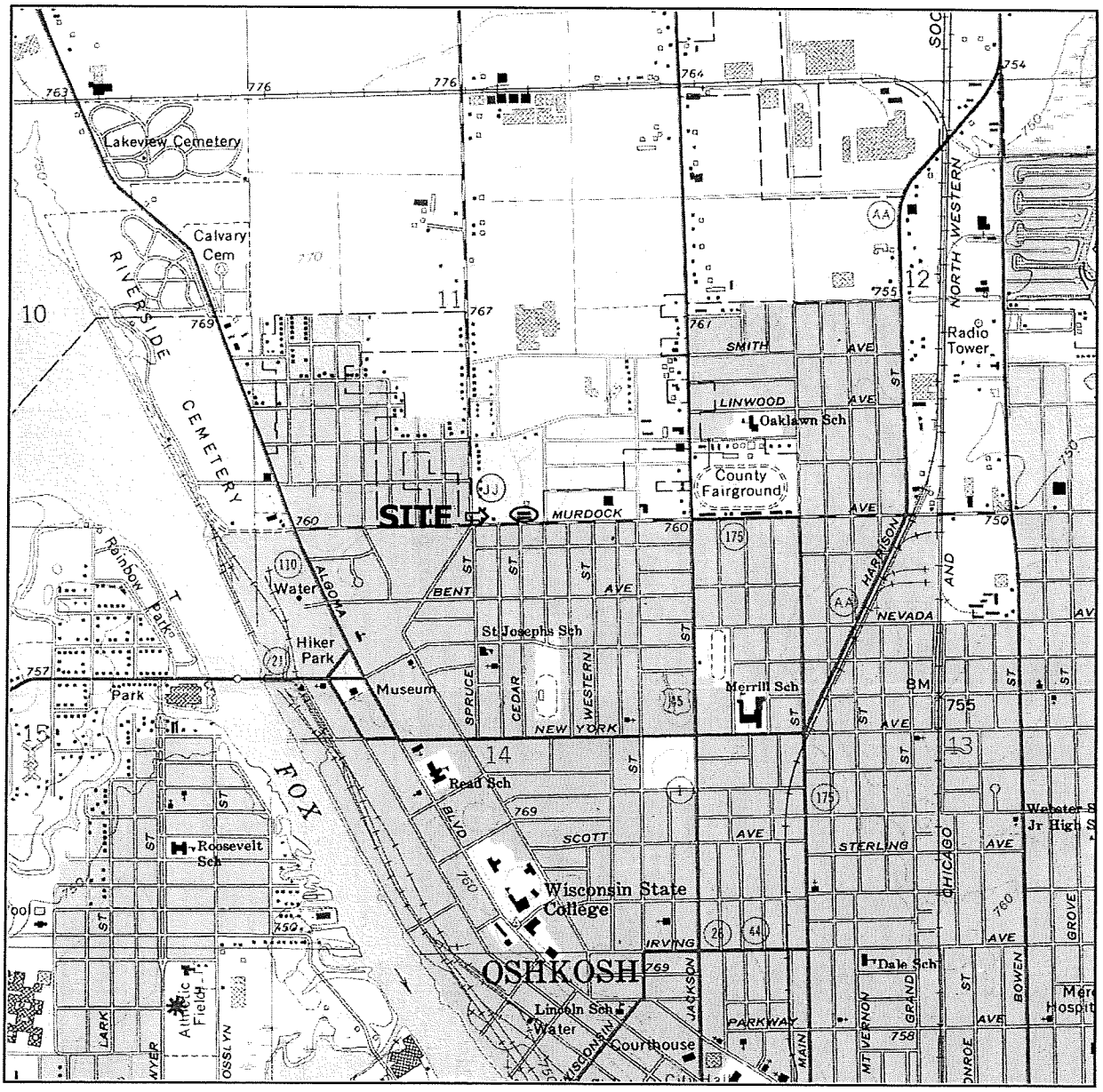
GIS Registry Packet
Mercury Marine
Plant 6 – Petroleum Investigation
1018 Murdock Avenue, Oshkosh, Wisconsin

STATEMENT BY RESPONSIBLE PARTY

Mr. Craig Dousharm, a representative of Mercury Marine, the responsible party for the petroleum release at the Plant 6 property located at 1018 Murdock Avenue, Oshkosh, Wisconsin, states that the legal description for the property to be listed in the GIS Registry provided to the Wisconsin Department of Natural Resources (WDNR) in this GIS Registry packet for WDNR BRRTS #03-71-182214 is complete and accurate to the best of my knowledge.

Craig F. Dousharm
Signature of Representative for Responsible Party

3/5/09
Date



SE ¼ of the SE ¼ Sec. 11, T18N, R16E. Adapted from U.S.G.S. 7.5 minute series, Oshkosh, Wisconsin, quadrangle (dated 1961, photorevised 1975).

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

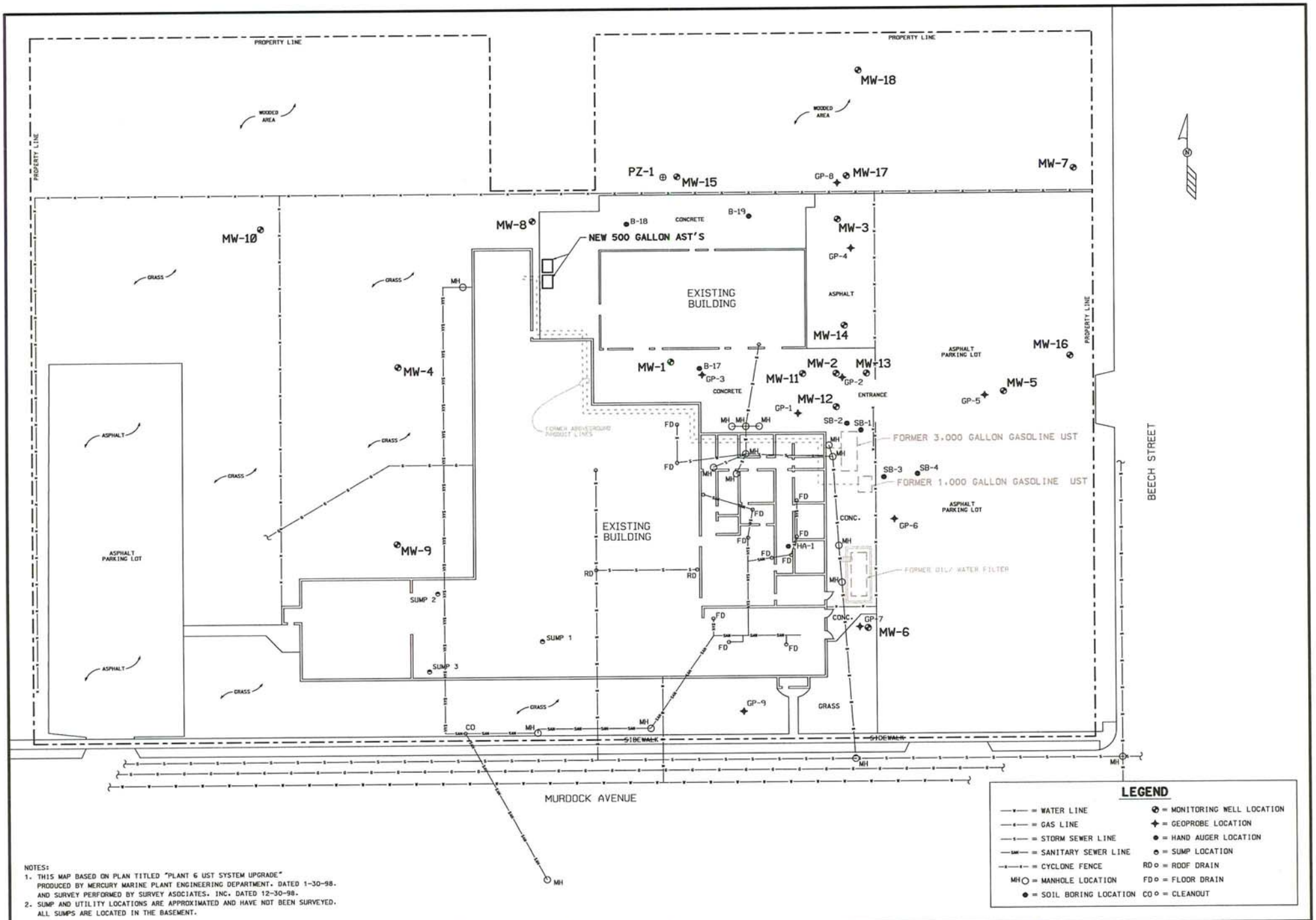
CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

N

Figure 1. Site Location Map
Mercury Marine
1018 Murdock Avenue, Oshkosh, Wisconsin

SIGMA
ENVIRONMENTAL SERVICES INC.

8551fig1.ppt



NOTES:
1. THIS MAP BASED ON PLAN TITLED "PLANT 6 UST SYSTEM UPGRADE" PRODUCED BY MERCURY MARINE PLANT ENGINEERING DEPARTMENT. DATED 1-30-98. AND SURVEY PERFORMED BY SURVEY ASOCIATES. INC. DATED 12-30-98.
2. SUMP AND UTILITY LOCATIONS ARE APPROXIMATED AND HAVE NOT BEEN SURVEYED. ALL SUMPS ARE LOCATED IN THE BASEMENT.

SIGMA ENVIRONMENTAL SERVICES INC.
220 EAST RYAN ROAD
OAK CREEK, WISCONSIN 53154
PHONE : (414) 768 - 7144
1-800-732-4671

SCALE - 1" = 30'- 0" (0' 15' 30' 45' 60')

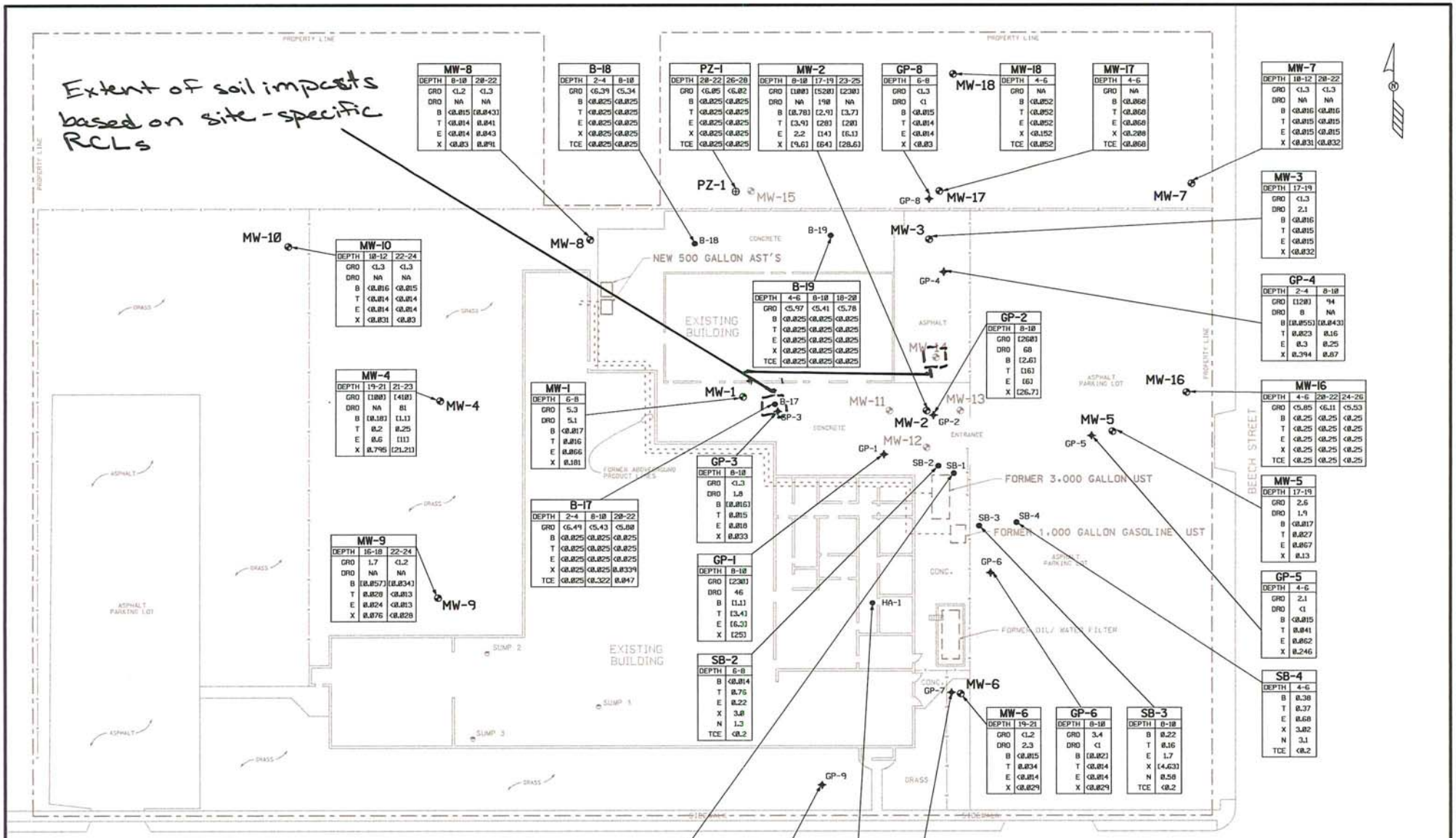
NO	DATE	REVISIONS	BY	APVD

	NAME:	DATE:
DRAWN BY:	BEB	5-4-01
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
SITE PLAN MAP

DRAWING NUMBER
4641-008

FIGURE 2



MW-8		
DEPTH	8-10	20-22
GRO	<1.2	<1.3
DRO	NA	NA
B	<0.015	[0.0431]
T	<0.014	0.041
E	<0.014	0.043
X	<0.03	0.091

B-18		
DEPTH	2-4	8-10
GRO	<6.39	<5.34
B	<0.025	<0.025
T	<0.025	<0.025
E	<0.025	<0.025
X	<0.025	<0.025
TCE	<0.025	<0.025

PZ-1		
DEPTH	20-22	26-28
GRO	<6.05	<6.02
B	<0.025	<0.025
T	<0.025	<0.025
E	<0.025	<0.025
X	<0.025	<0.025
TCE	<0.025	<0.025

MW-2			
DEPTH	8-10	17-19	23-25
GRO	[100]	[520]	[230]
DRO	NA	190	NA
B	[0.78]	[2.9]	[3.7]
T	[3.9]	[28]	[28]
E	2.2	[14]	[6.1]
X	[9.6]	[64]	[28.6]

GP-8	
DEPTH	6-8
GRO	<1.3
DRO	<1
B	<0.015
T	<0.014
E	<0.014
X	<0.03

MW-18	
DEPTH	4-6
GRO	NA
B	<0.052
T	<0.052
E	<0.052
X	<0.152
TCE	<0.052

MW-17	
DEPTH	4-6
GRO	NA
B	<0.068
T	<0.068
E	<0.068
X	<0.208
TCE	<0.068

MW-7		
DEPTH	10-12	20-22
GRO	<1.3	<1.3
DRO	NA	NA
B	<0.016	<0.016
T	<0.015	<0.015
E	<0.015	<0.015
X	<0.031	<0.032

MW-3	
DEPTH	17-19
GRO	<1.3
DRO	2.1
B	<0.016
T	<0.015
E	<0.015
X	<0.032

GP-4		
DEPTH	2-4	8-10
GRO	[120]	94
DRO	8	NA
B	[0.055]	[0.043]
T	0.023	0.16
E	0.3	0.25
X	0.394	0.67

MW-10		
DEPTH	10-12	22-24
GRO	<1.3	<1.3
DRO	NA	NA
B	<0.016	<0.015
T	<0.014	<0.014
E	<0.014	<0.014
X	<0.031	<0.03

B-19			
DEPTH	4-6	8-10	18-20
GRO	<5.97	<5.41	<5.78
B	<0.025	<0.025	<0.025
T	<0.025	<0.025	<0.025
E	<0.025	<0.025	<0.025
X	<0.025	<0.025	<0.025
TCE	<0.025	<0.025	<0.025

GP-2	
DEPTH	8-10
GRO	[260]
DRO	68
B	[2.6]
T	[16]
E	[6]
X	[26.7]

MW-4		
DEPTH	19-21	21-23
GRO	[100]	[410]
DRO	NA	81
B	[0.183]	[1.1]
T	0.2	0.25
E	0.6	[11]
X	0.795	[21.21]

MW-1	
DEPTH	6-8
GRO	5.3
DRO	5.1
B	<0.017
T	0.016
E	0.066
X	0.181

MW-16			
DEPTH	4-6	20-22	24-26
GRO	<5.85	<6.11	<5.53
B	<0.25	<0.25	<0.25
T	<0.25	<0.25	<0.25
E	<0.25	<0.25	<0.25
X	<0.25	<0.25	<0.25
TCE	<0.25	<0.25	<0.25

MW-5	
DEPTH	17-19
GRO	2.6
DRO	1.9
B	<0.017
T	0.027
E	0.067
X	0.13

GP-3	
DEPTH	8-10
GRO	<1.3
DRO	1.8
B	[0.016]
T	0.015
E	0.018
X	0.033

B-17			
DEPTH	2-4	8-10	20-22
GRO	<6.49	<5.43	<5.80
B	<0.025	<0.025	<0.025
T	<0.025	<0.025	<0.025
E	<0.025	<0.025	<0.025
X	<0.025	<0.025	0.0339
TCE	<0.025	<0.322	0.047

MW-9		
DEPTH	16-18	22-24
GRO	1.7	<1.2
DRO	NA	NA
B	[0.057]	[0.034]
T	0.028	<0.013
E	0.024	<0.013
X	0.076	<0.028

GP-1	
DEPTH	8-10
GRO	[230]
DRO	46
B	[1.1]
T	[3.4]
E	[6.3]
X	[25]

SB-2	
DEPTH	6-8
B	<0.014
T	0.76
E	0.22
X	3.8
N	1.3
TCE	<0.2

MW-5		
DEPTH	2-4	8-10
GRO	2.1	
DRO	<1	
B	<0.015	
T	0.041	
E	0.062	
X	0.246	

SB-4	
DEPTH	4-6
B	0.38
T	0.37
E	0.68
X	3.82
N	3.1
TCE	<0.2

MW-6		
DEPTH	19-21	
GRO	<1.2	
DRO	2.3	
B	<0.015	
T	0.034	
E	<0.014	
X	<0.029	

GP-6	
DEPTH	8-10
GRO	3.4
DRO	<1
B	[0.02]
T	<0.014
E	<0.014
X	<0.029

SB-3	
DEPTH	8-10
B	0.22
T	0.16
E	1.7
X	[4.63]
N	0.58
TCE	<0.2

SB-1	
DEPTH	2-4
B	<0.014
T	<0.013
E	<0.013
X	<0.044
N	<0.037
TCE	<0.02

GP-9	
DEPTH	8-10
GRO	<1.3
DRO	<1
B	<0.015
T	0.015
E	<0.014
X	<0.03

HA-1	
DEPTH	3-4
GRO	33
DRO	28
B	[0.71]
T	<0.032
E	1.4
X	0.4

GP-7	
DEPTH	4-6
GRO	<1.3
DRO	14
B	<0.016
T	<0.015
E	<0.015
X	<0.032

ANALYTICAL KEY

GRO = GASOLINE RANGE ORGANICS
DRO = DIESEL RANGE ORGANICS
B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
N = NAPHTHALENE
TCE = TRICHLOROETHYLENE
[ ] = EXCEEDS NR 720 SOIL CLEANUP GUIDELINES

ALL RESULTS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg)

LEGEND

= MONITORING WELL LOCATION
= SOIL BORING LOCATION
= SEWER LINE LOCATION
= CYCLONE FENCE LOCATION
= GEOPROBE LOCATION
= HAND AUGER LOCATION
= SUMP LOCATION

NOTES:
1. THIS MAP BASED ON PLAN TITLED "PLANT 6 UST SYSTEM UPGRADE" PRODUCED BY MERCURY MARINE PLANT ENGINEERING DEPARTMENT. DATED 1-30-98. AND SURVEY PERFORMED BY SURVEY ASOCIATES. INC. DATED 12-30-98.
2. SUMP LOCATIONS ARE APPROXIMATED AND HAVE NOT BEEN SURVEYED. ALL SUMPS ARE LOCATED IN THE BASEMENT.

SIGMA ENVIRONMENTAL SERVICES INC.
220 EAST RYAN ROAD
OAK CREEK, WISCONSIN 53154
PHONE : (414) 768 - 7144
1-800-732-4671

GRAPHIC SCALE 0' 15' 30' 45' 60'

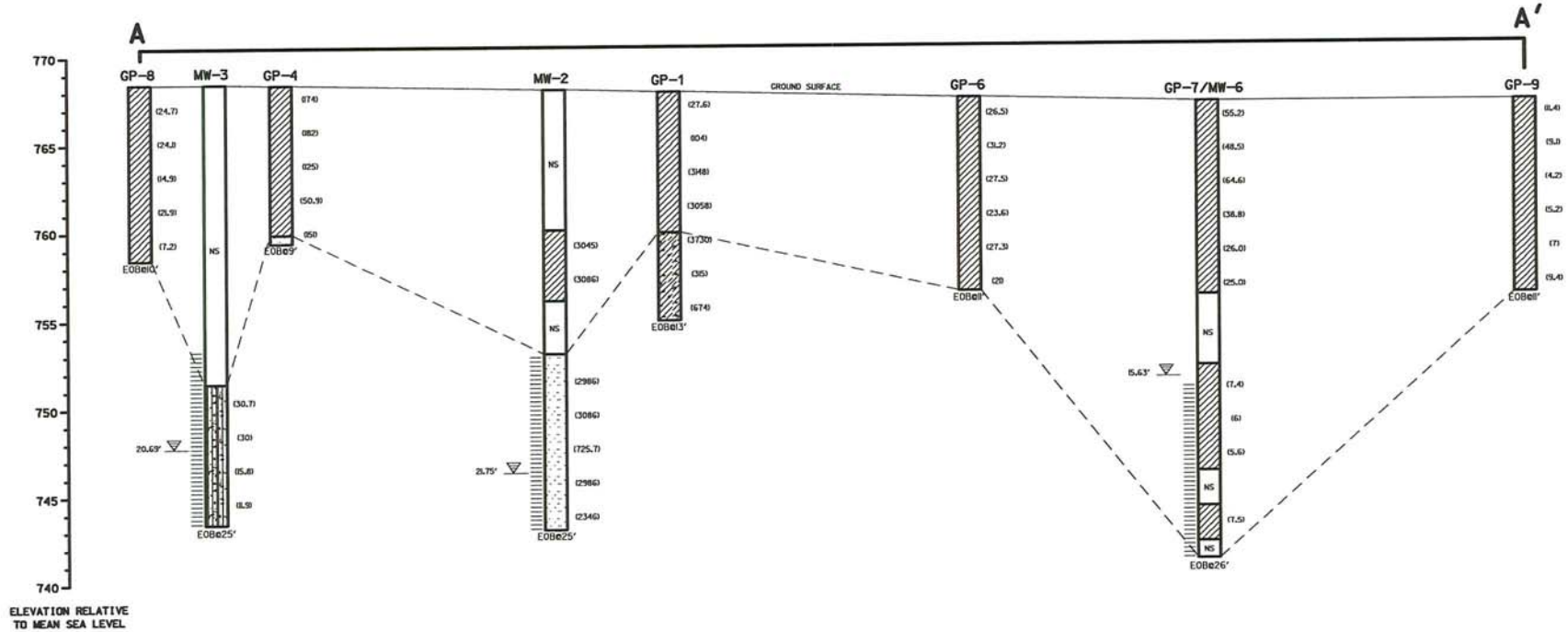
NO	DATE	REVISIONS	BY	APVD

	NAME:	DATE:
DRAWN BY:	BEB	8-7-03
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
SOIL QUALITY MAP

DRAWING NUMBER
5966-002

FIGURE 4



LEGEND

≡ = WELL SCREEN INTERVAL

▽ = STATIC WATER LEVEL (12-28-98)

NS = NOT SAMPLED

USCS SYMBOLS

SP – POORLY – GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.

SM – SILTY – SANDS, SAND – SILT MIXTURES.

CL – INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SAND CLAYS, SILTY CLAYS, LEAN CLAYS.

GC – CLAYEY GRAVELS, GRAVEL – SAND – CLAY MIXTURES.

NOTES:
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 5'
( ) = FIELD PHOTOIONIZATION DETECTION RESULTS, EXPRESSED AS INSTRUMENT UNITS AS ISOBUTYLENE (1ul).

SIGMA ENVIRONMENTAL SERVICES INC.
220 EAST RYAN ROAD
OAK CREEK, WISCONSIN 53154
PHONE : (414) 768 – 7144
1-800-732-4671

SCALE – SEE NOTE

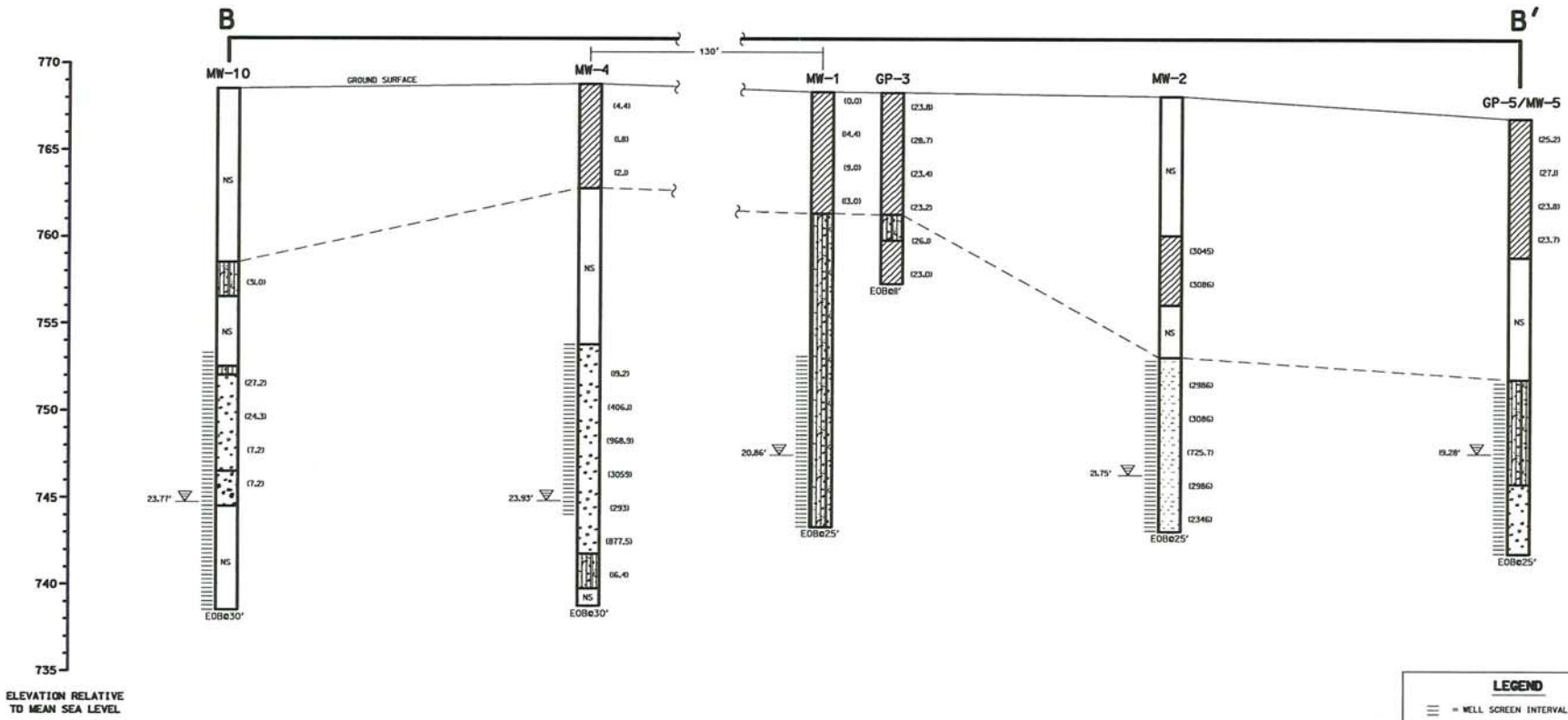
NO	DATE	REVISIONS	BY	APVD

	NAME:	DATE:
DRAWN BY:	TMM	2-15-99
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
GEOLOGIC CROSS SECTIONS A - A'

DRAWING NUMBER
4641-014

FIGURE 4



NOTES:
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 5'
( ) = FIELD PHOTOIONIZATION DETECTION RESULTS. EXPRESSED AS INSTRUMENT UNITS AS ISOBUTYLENE (1ul).

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SCALE - SEE NOTE

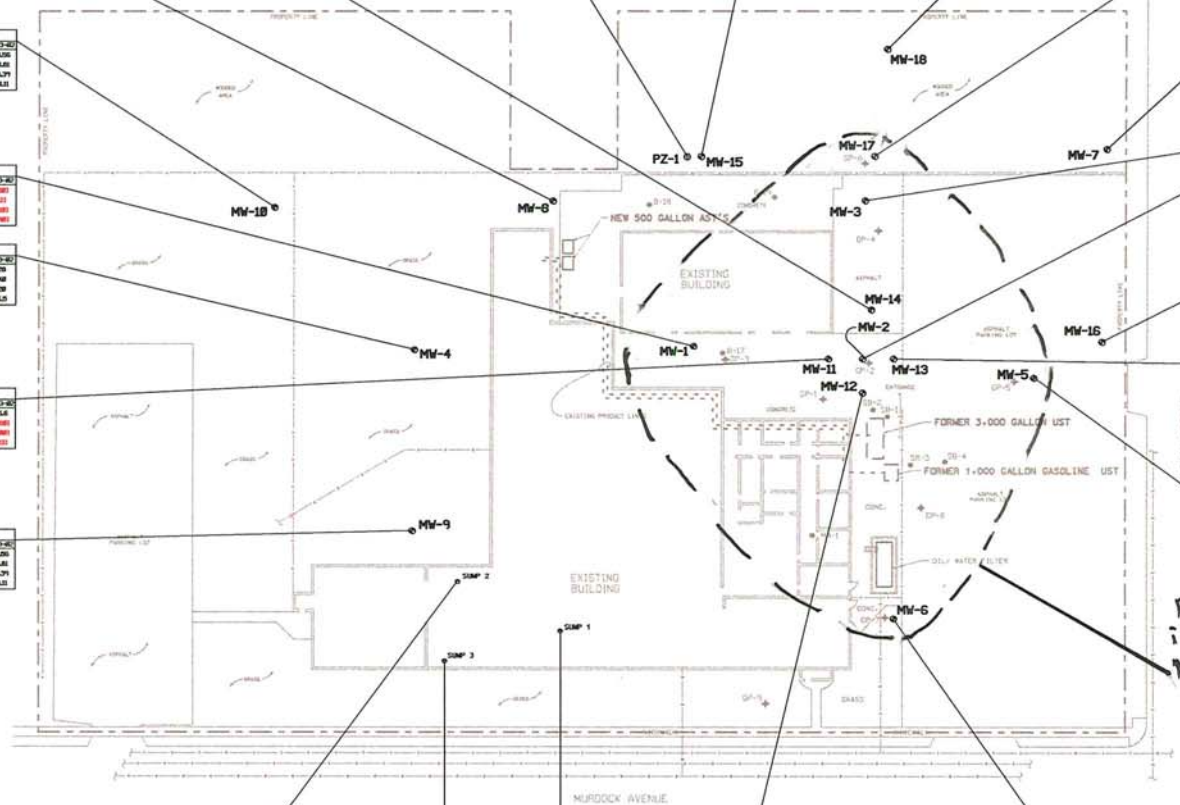
NO	DATE	REVISIONS	BY	APVD

	NAME:	DATE:
DRAWN BY:	TMM	2-15-99
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
GEOLOGIC CROSS SECTIONS B - B'

DRAWING NUMBER
4641-011

FIGURE 5



Extent of groundwater impacts based on NR 140 standards

MW-8

DATE	12-26-96	7-16-99	4-24-00	11-14-00	8-22-01	11-15-01	2-21-02	11-13-02
1,2-D	<0.54	<0.54	<.55	<0.55	<1.0	<0.55	<1.0	<0.56
cis-1,2-D	<0.31	<0.31	<.35	<0.25	<1.0	<0.73	<1.0	<0.81
TCE	<1.0	<0.44	0.93	0.727J	<1.0	<0.29	<1.0	<0.31
VC	<0.83	<0.83	<.11	<0.12	<1.0	<0.18	<1.0	<0.11

MW-14

DATE	7-16-99	4-24-00	11-14-00	5-24-01	8-22-01	11-15-01	2-21-02	5-9-02	11-13-02
1,2-D	<27	0.58	0.52	<0.5	<1.0	<0.55	<0.55	0.12	
cis-1,2-D	[56]	[16.4]	[33.4]	[38]	[29]	[18]	[29]	[16]	[7.6]
TCE	<22	[78.1]	[18]	[6]	[22]	[18]	[23]	[7]	[7]
VC	[36]	[17.1]	<1.2	<1.4	[24]	<0.98	<18	<0.18	[7.9]

PZ-1

DATE	4-24-00	11-14-00	5-24-01	8-22-01	11-15-01	2-21-02	11-13-02
1,2-D	<0.25	<0.55	<1.0	<0.55	<1.0	<0.55	<0.56
cis-1,2-D	<0.25	<0.25	<0.27	<1.0	<0.73	<1.0	<0.81
TCE	<1.4	0.286	<0.32	<1.0	<0.29	<1.0	<0.31
VC	<0.11	<0.12	<0.14	<1.0	<0.18	<1.0	<0.11

MW-15

DATE	4-24-00	11-14-00	5-24-01	8-22-01	11-15-01	2-21-02	11-13-02
1,2-D	<0.25	<0.55	<1.0	<0.55	<1.0	<0.55	<0.56
cis-1,2-D	<0.25	<0.25	<1.0	<0.73	<1.0	<0.81	
TCE	0.429	0.286	<1.0	<0.29	<1.0	<0.31	
VC	<0.11	<0.12	<1.0	<0.18	<1.0	<0.11	

MW-18

DATE	5-24-01	8-22-01	11-15-01	2-21-02	11-13-02
1,2-D	<1.0	<1.0	<0.55	<1.0	<0.56
cis-1,2-D	<1.0	<1.0	<0.73	<1.0	<0.81
TCE	<1.0	<1.0	<0.29	<1.0	<0.31
VC	<25	<1.0	<0.18	<1.0	<0.11

MW-17

DATE	1-18-01	2-6-01	8-22-01	11-15-01	2-21-02	11-13-02
1,2-D	<1.0	<1.0	<0.55	<1.0	<0.55	<0.56
cis-1,2-D	<1.0	<1.0	<0.73	<1.0	<0.81	
TCE	[36]	[29]	[22]	[8.7]	[14]	
VC	<1.0	<1.0	<0.18	<1.0	<0.11	

MW-7

DATE	12-26-96	7-16-99	4-24-00	11-14-00	8-22-01	11-15-01	2-21-02	11-13-02
1,2-D	<0.54	<0.54	NA	<0.55	<1.0	<0.55	<1.0	<0.56
cis-1,2-D	<0.31	<0.31	NA	<0.25	<1.0	<0.73	<1.0	<0.81
TCE	<0.44	<0.44	NA	<0.1	<1.0	<0.29	<1.0	<0.31
VC	<0.83	<0.83	NA	<0.12	<1.0	<0.18	<1.0	<0.11

MW-3

DATE	7-9-98	12-26-98	7-16-99	4-24-00	11-14-00	5-24-01	8-22-01	11-15-01	2-21-02	5-9-02	11-13-02
1,2-D	<0.54	<0.54	<0.54	<1.0	0.397J	<0.55	<1.0	<0.55	<1.0	1.1J	<0.56
cis-1,2-D	63	148	59	14.8	27	8.9	18	23	38	18	29
TCE	24	36	33	4.4	25.7J	13J	29J	15J	74	32J	18J
VC	<0.83	17J	25J	<0.44	13.6J	<0.29	<0.31	<0.32	<0.33	<0.29	14.4J

MW-2

DATE	7-9-98	5-24-01	8-22-01	5-9-02
1,2-D	<18	<170	<1.0	<25
cis-1,2-D	[140]	[460]	<1.0	[140]
TCE	[52]	<180	<1.0	[3.8]
VC	<38	<30	<1.0	[2.8]

MW-1

DATE	7-9-98	12-26-98	7-16-99	4-24-00	11-14-00	5-24-01	8-22-01	11-15-01	2-21-02	5-9-02	11-13-02
VC	[18]	63	[22]	61	[27]	[79]	<0.92	[140]	<4.5	[58]	
1,1-D	27	[54]	27	[25.3]	25	23	[8.6]	[7.3]	28	[25]	[12]
cis-1,2-D	[740]	[1400]	[2300]	[1,760]	[2,790]	[3,200]	[270]	[490]	[430]	[2,800]	[910]
TCE	[670]	[2800]	[320]	[444]	[280]	[120]	[70]	[140]	[300]	[8]	[490]

MW-16

DATE	4-24-00	11-14-00	8-22-01	11-15-01	2-21-02	11-13-02
1,2-D	<0.25	<0.55	<1.0	<0.55	<1.0	<0.56
cis-1,2-D	<0.25	<0.25	<1.0	<0.73	<1.0	<0.81
TCE	<0.48	0.286	<1.0	<0.29	<1.0	<0.31
VC	<0.11	<0.12	<1.0	<0.18	<1.0	<0.11

MW-4

DATE	7-9-98	12-26-98	7-16-99	4-24-00	11-14-00	5-24-01	8-22-01	11-15-01	2-21-02	5-9-02	11-13-02
1,2-D	<27	<54	<54	NA	<0.58	<4.2	<0.55	<17	<0.55	<17	<0.56
1,1-D	<28	<49	<59	NA	<0.58	<33	<0.55	<15	<0.55	[20]	<48
TCE	<22	<44	<44	NA	<0.69	[18]	<0.55	<13	<0.55	[22]	<29
VC	<32	<83	<83	NA	<0.18	<0.98	<0.55	<1.0	<0.55	<1.0	<5.5

MW-13

DATE	5-24-01	8-22-01	11-15-01	5-9-02
1,2-D	<55	FP	FP	<42
cis-1,2-D	[1,600]	FP	FP	[2300]
TCE	[370]	FP	FP	[250]
VC	[130]	FP	FP	<1.8

MW-5

DATE	7-9-98	12-26-98	7-16-99	4-24-00	11-14-00	5-24-01	8-22-01	11-15-01	2-21-02	5-9-02	11-13-02
1,2-D	<1	0.39	<2.7	<75	0.556	<25	<1.0	<4.2	<18	<42	<5.6
1,1-D	[55]	[32]	[32]	<75	[7.2]	<5.2	<1.0	<3.3	<18	<23	<5.5
VC	<3	[72]	[48]	<25	<0.12	<1.8	[36]	<0.98	[36]	<1.8	[25]
cis-1,2-D	[94]	[45]	[48]	[36.7]	[55]	[78]	[42]	[48]	[27]	[85]	[49]
TCE	[67]	[18]	[12]	[28]	[5.1]	[7]	<18	[36]	[12]	<44	[11]

MW-9

DATE	12-26-98	4-24-00	11-14-00	8-22-01	11-15-01	2-21-02	11-13-02
1,2-D	<0.54	NA	<0.55	<1.0	<0.55	<1.0	<0.56
cis-1,2-D	<0.31	NA	<0.25	<1.0	<0.73	<1.0	<0.81
TCE	<0.44	NA	<0.1	<1.0	<0.29	<1.0	<0.31
VC	<0.83	NA	<0.12	<1.0	<0.18	<1.0	<0.11

SUMP 2

DATE	4-24-00	11-13-01	4-24-00
cis-1,2-D	<0.31	<0.31	NA
PCE	<0.48	<0.48	NA
TCE	<0.44	<0.44	NA
VC	<0.83	<0.83	NA

SUMP 3

DATE	8-22-01	11-13-01	4-24-00
cis-1,2-D	<0.31	<0.31	NA
PCE	0.76	14.2J	NA
TCE	<0.44	0J	NA
VC	<0.83	<0.83	NA

SUMP 1

DATE	8-22-01	11-13-01	4-24-00
cis-1,2-D	<0.31	<0.31	NA
PCE	<0.48	<0.48	NA
TCE	<0.44	<0.44	NA
VC	<0.83	<0.83	NA

MW-12

DATE	5-24-01	8-22-01	11-15-01	5-9-02
1,2-D	<250	FP	FP	<95
cis-1,2-D	[330]	FP	FP	[380]
TCE	<28	FP	FP	<91
VC	[72]	FP	FP	[160]

MW-6

DATE	7-9-98	12-26-98	7-16-99	4-24-00	11-14-00	5-24-01	8-22-01	11-15-01	2-21-02	5-9-02	11-13-02
1,2-D	2.1	[25]	[33]	[18.4]	[5.8]	[5.3]	[3]	[3]	[3.5]	[5.5]	[2.7]
1,1-D	<0.54	<0.54	<0.54	<.75	<0.55	<0.55	<1.0	<0.55	<1.0	<0.55	<0.56
cis-1,2-D	<0.31	<0.31	<0.31	<.75	<0.55	<0.27	<1.0	<0.73	<1.0	<0.73	<0.81
TCE	<0.44	<0.44	<0.44	<2.8	0.397J	<0.32	<1.0	<0.29	<1.0	<0.29	<0.31
VC	<0.83	<0.83	<0.83	<.55	<0.12	<0.19	<1.0	<0.18	<1.0	<0.18	<0.11

ANALYTICAL KEY

1,2-D = 1,2 DICHLOROETHANE
VC = VINYL CHLORIDE
1,1-D = 1,1 DICHLOROETHENE
cis-1,2-D = cis-1,2 DICHLOROETHENE
TCE = TRICHLOROETHENE
PCE = TETRACHLOROETHENE
NA = NOT ANALYZED
FP = FREE PRODUCT PRESENT
[ ] = EXCEEDS NR140 ENFORCEMENT STANDARD
( ) = EXCEEDS NR 140 PREVENTIVE ACTION LIMIT
ALL CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER (ug/l)

LEGEND

- WATER LINE
- GAS LINE
- SEWER LINE
- CYCLONE FENCE
- MONITORING WELL LOCATION
- GEOPROBE LOCATION
- HAND AUGER LOCATION
- SUMP LOCATION
- SOIL BORING LOCATION

NOTES:
1. THIS MAP BASED ON PLAN TITLED "PLANT 6 UST SYSTEM UPGRADE" PRODUCED BY MERCURY MARINE PLANT ENGINEERING DEPARTMENT. DATED 1-30-96. AND SURVEY PERFORMED BY SURVEY ASSOCIATES, INC. DATED 12-30-98.
2. SUMP AND UTILITY LOCATIONS ARE APPROXIMATED AND HAVE NOT BEEN SURVEYED. ALL SUMPS ARE LOCATED IN THE BASEMENT.

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GRAPHIC SCALE
0' 15' 30' 45' 60'

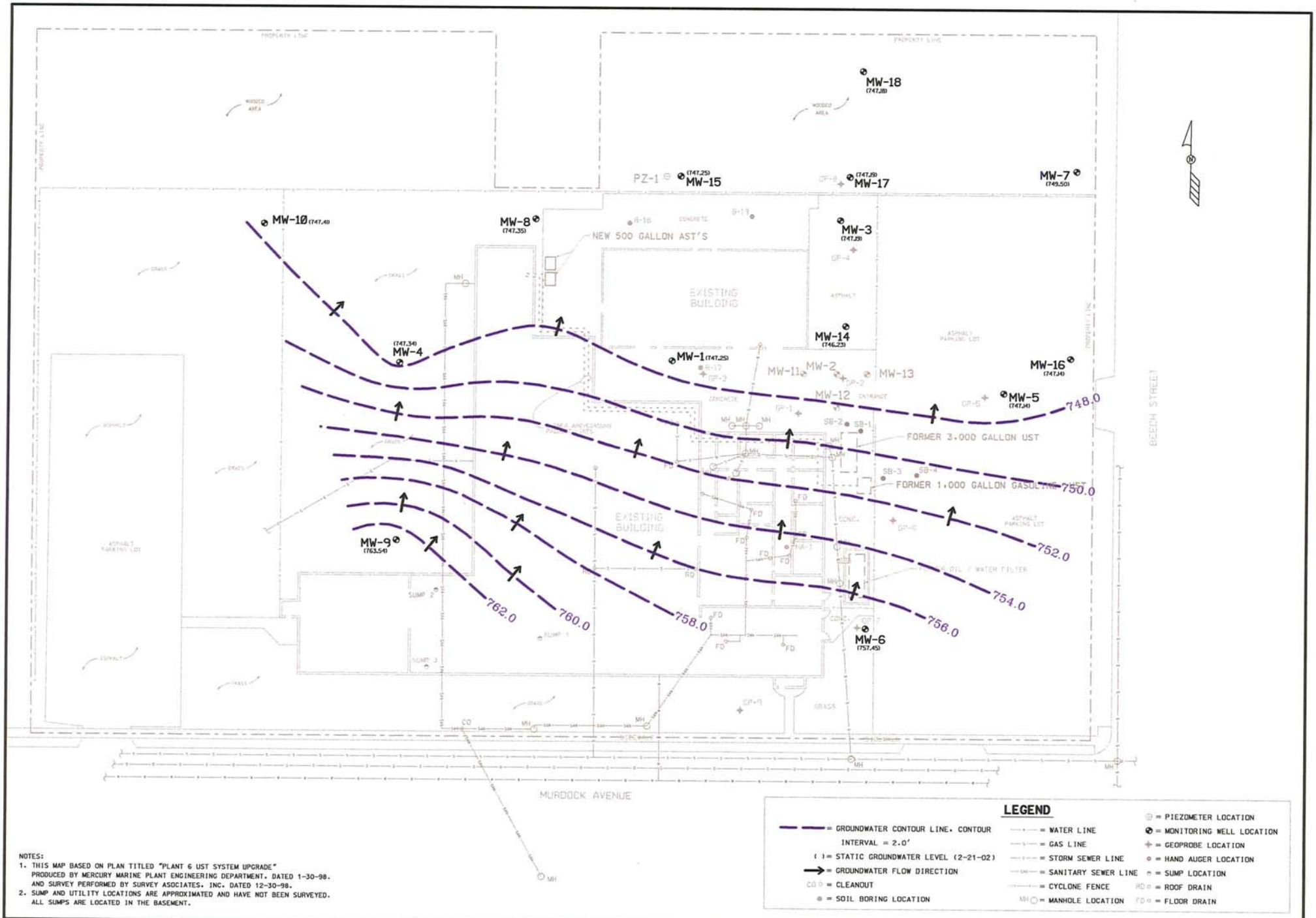
NO	DATE	REVISIONS	BY	APVD

NAME:		DATE:
DRAWN BY:	BEB	4-16-03
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
GROUNDWATER QUALITY MAP

DRAWING NUMBER
7272-002

FIGURE 5



NOTES:
1. THIS MAP BASED ON PLAN TITLED "PLANT 6 UST SYSTEM UPGRADE" PRODUCED BY MERCURY MARINE PLANT ENGINEERING DEPARTMENT. DATED 1-30-98. AND SURVEY PERFORMED BY SURVEY ASOCIATES. INC. DATED 12-30-98.
2. SUMP AND UTILITY LOCATIONS ARE APPROXIMATED AND HAVE NOT BEEN SURVEYED. ALL SUMPS ARE LOCATED IN THE BASEMENT.

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OAK CREEK. WISCONSIN 53154
PHONE : (414) 768 - 7144
1-800-732-4671

GRAPHIC SCALE 0' 15' 30' 45' 60'

NO	DATE	REVISIONS	BY	APVD

	NAME:	DATE:
DRAWN BY:	BEB	4-16-03
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
GROUNDWATER CONTOUR MAP (2-21-02)

DRAWING NUMBER
7272-001

FIGURE 3

Table 2
Preliminary Soil Sampling - Soil Quality Results
Mercury Marine Plant 6
Oshkosh, Wisconsin

Boring ID	6-SB-1	6-SB-2	6-SB-3	6-SB-4	NR 720 Soil	NR 746	NR 746	Site Specific
Depth (inches bgs)	24"-48"	72"-96"	96"-120"	48"-72"	Cleanup Levels	Table 1	Table 2	RCL
GRO	<1.1	500	440	470	100	**	**	**
DRO	<0.95	150	120	99	100	**	**	**
Lead	3.7	3.4	5.2	4.3	500	**	**	**
Volatile Organic Compounds								
Benzene	<0.014	<0.014	0.22"J"	0.38"J"	0.0055	8.5	1.1	**
Toluene	<0.013	0.76	0.16"J"	0.37"J"	1.5	38	**	**
Ethylbenzene	<0.013	0.22"J"	1.7	0.68	2.9	4.6	**	**
Total Xylenes	<0.044	3.0 "J"	4.63 "J"	3.02	4.1	42	**	**
1,2-DCA	<0.017	<0.17	<0.17	<0.17	0.0049	0.69	0.54	**
1,3,5-Trimethylbenzene	<0.011	1.3	1.1	0.71	**	11	**	**
1,2,4-Trimethylbenzene	<0.02	2.5	2.9	1.7	**	83	**	**
n-Butylbenzene	<0.015	2.3	1.5	0.87	**	**	**	**
sec-Butylbenzene	<0.015	0.16 "J"	1	0.58	**	**	**	**
Isopropylbenzene	<0.013	1.1	0.18"J"	0.18"J"	**	**	**	**
p-Isopropyltoluene	<0.015	<0.15	0.89	0.24"J"	**	**	**	**
Naphthalene	<0.037	1.3	0.58"J"	**3.1**	**	2.7	**	**
n-Propylbenzene	<0.0082	0.35	0.53	0.28	**	**	**	**
Vinyl Chloride	<0.026	<0.57	<0.26	<0.26	**	**	**	0.00062
Methylene Chloride	<0.057	<0.57	<0.57	<0.57	**	**	**	**
Trichloroethylene	<0.02	<0.2	<0.2	<0.2	**	**	**	0.11
Trichlorofluoromethane	<0.018	<0.18	<0.18	<0.18	**	**	**	**

Key: Preliminary Soil Samples collected on Janurary 28, 1998
NA = Not Analyzed
Site Specific RCL, values calculated using EPA Soil Screening Level Web Site for groundwater pathway
* = Includes Total Xylenes and Styrene (compound concentrations can not be differentiated, but per the laboratory [US Filter/Enviroscan], reported concentration likely reflects Total Xylene)
** = No Standard Established
[ ] = Exceeds NR 720 Soil Cleanup Guidelines and/or Site Specific RCLs
BOLD = Exceeds NR 746 Table 1 or Table 2 values
All results expressed in milligrams per kilogram (mg/kg)

Table 2- Cont'd
Soil Quality Results - Detections Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

Boring ID	GP-1	GP-2	GP-3	GP-4	GP-4	GP-5	GP-6	GP-7	GP-8	GP-9	HA-1	NR 720 Soil Cleanup Levels	NR 746 Table 1	NR 746 Table 2	Site Specific RCL
Depth (feet bgs)	8-10	8-10	8-10	2-4	8-10	4-6	8-10	4-6	6-8	8-10	3-4				
GRO	**230**	**260**	<1.3	**120**	94	2.1	3.4	<1.3	<1.3	<1.3	33	100	**	**	**
DRO	46	68	1.8	8	NA	<1	<1	14	<1	<1	20	100	**	**	**
Lead	4.2	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	**	**	**
Petroleum Volatile Organic Compounds															
Benzene	**1.1**	**2.6**	0.016	0.055	0.043	<0.015	0.02	<0.016	<0.015	<0.015	0.71	0.0055	8.5	1.1	**
Toluene	3.4	16	0.015	0.023	0.16	0.041	<0.014	<0.015	<0.014	0.015	<0.032	1.5	38	**	**
Ethylbenzene	**6.3**	**6**	0.018	0.3	0.25	0.062	<0.014	<0.015	<0.014	<0.014	1.4	2.9	4.6	**	**
Total Xylenes	**25**	**26.7**	0.033	0.394	0.87	0.246	<0.029	<0.032	<0.03	<0.03	0.4	4.1	42	**	**
1,3,5-Trimethylbenzene	**4.4**	**4.8**	0.014	1.8	0.94	0.036	<0.012	<0.013	<0.012	<0.012	1.3	**	0.69	0.54	**
1,2,4-Trimethylbenzene	15	16	<0.022	2.3	1.5	0.12	0.085	<0.023	<0.022	<0.022	4.1	**	83	**	**
Polycyclic Aromatic Hydrocarbons:															
Naphthalene	0.67	0.42	NA	0.053	NA	NA	NA	NA	NA	NA	0.26	**	**	**	**
Acenaphthylene	0.2	0.16	NA	<0.033	NA	NA	NA	NA	NA	NA	<0.034	**	**	**	**
Phenanthrene	<0.0016	0.037	NA	0.15	NA	NA	NA	NA	NA	NA	<0.0018	**	**	**	**
Dibenzo(a,h)anthracene	0.0035	<0.0032	NA	<0.0037	NA	NA	NA	NA	NA	NA	<0.0037	**	**	**	**
1-Methylnaphthalene	0.82	0.65	NA	0.12	NA	NA	NA	NA	NA	NA	0.16	**	**	**	**
2-Methylnaphthalene	1.9	1.4	NA	0.16	NA	NA	NA	NA	NA	NA	0.4	**	**	**	**

KEY: Geoprobe borings completed on 6/4/98
NA = Not Analyzed
Site Specific RCL, values calculated using EPA Soil Screening Level Web Site for groundwater pathway
* = Includes Total Xylenes and Styrene (compound concentrations can not be differentiated, but per the laboratory [US Filter/Enviroscan], reported concentration likely reflects Total Xylene)
** = No Standard Established
[ ] = Exceeds NR 720 Soil Cleanup Guidelines and/or Site Specific RCLs
BOLD = Exceeds NR 746 Table 1 or Table 2 values

All results expressed in milligrams per kilogram (mg/kg)

Table 2 (cont'd)
Soil Quality Results - Detections Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

Boring ID	MW-1	MW-2			MW-3	MW-4		MW-5	MW-6	MW-7		MW-8		MW-9		MW-10		MW-11	NR 720 Soil	NR 746	NR 746	Site Specific
Depth (feet bgs)	6-8	8-10	17-19	23-25	17-19	19-21	21-23	17-19	19-21	10-12'	20-22'	8-10'	20-22'	16-18'	22-24'	10-12'	22-24'	18-20'	Cleanup Levels	Table 1	Table 2	RCL
GRO	5.3	**100**	**520**	**230**	<1.3	**100**	**410**	2.6	<1.2	<1.3	<1.3	<1.2	<1.3	1.7	<1.2	<1.3	<1.3	**5900**	100	**	**	**
DRO	5.1	NA	190	NA	2.1	NA	81	1.9	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	**	**	**
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	**	**	**
Volatile Organic Compounds																						
Benzene	<0.017	0.78	**2.9**	**3.7**	<0.016	0.18	**1.1**	<0.017	<0.015	<0.016	<0.016	<0.015	0.043	0.057	0.034	<0.016	<0.015	**38**	0.0055	8.5	1.1	**
Toluene	0.016	3.9	28	20	<0.015	0.2	0.25	0.027	0.034	<0.015	<0.015	<0.014	0.041	0.028	<0.013	<0.014	<0.014	**97**	1.5	38	**	**
Ethylbenzene	0.066	2.2	**14**	**6.1**	<0.015	0.6	**11**	0.067	<0.014	<0.015	<0.015	<0.014	0.043	0.024	<0.013	<0.014	<0.014	**120**	2.9	4.6	**	**
Total Xylenes	0.181	9.6	64	28.6	<0.032	0.795	21.21	0.13	<0.029	<0.031	<0.032	<0.03	0.091	0.076	<0.028	<0.031	<0.03	**460**	4.1	42	**	**
1,2-DCA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0049	0.69	0.54	**
1,3,5-Trimethylbenzene	0.039	1.8	**12**	3.9	<0.013	2	9.4	0.046	<0.012	<0.012	<0.013	<0.012	0.044	0.022	<0.011	<0.012	<0.012	92	**	11	**	**
1,2,4-Trimethylbenzene	0.064	6	39	12	0.034	6.3	33	0.16	<0.022	<0.023	<0.024	<0.022	0.041	0.025	<0.021	<0.023	<0.022	240	**	83	**	**
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**
p-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	2.7	**	**
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**
Vinyl Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	0.00062
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**
Trichloroethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	0.11
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**

KEY:

Trip blank submitted with soil samples from MW-7, MW-8, MW-9, and MW-10 contained slight impacts of Ethylbenzene, Xylenes, 1,3,5-TMB, and 1,2,4-TMB.

NA = Not Analyzed
Site Specific RCL, values calculated using EPA Soil Screening Level Web Site for groundwater pathway
* = Includes Total Xylenes and Styrene (compound concentrations can not be differentiated, but per the laboratory [US Filter/Enviroscan], reported concentration likely reflects Total Xylene)
** = No Standard Established
*** = Acetone detected in soil sample and trip blank at concentrations of 0.5 mg/kg and 0.2 mg/kg, respectively. Likely lab contaminant.
[ ] = Exceeds NR 720 Soil Cleanup Guidelines and/or Site Specific RCLs
BOLD = Exceeds NR 746 Table 1 or Table 2 values
All results expressed in milligrams per kilogram (mg/kg)

Table 2 (cont'd)
Soil Quality Results - Detections Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

Boring ID	MW-12	MW-13	MW-14	MW-16			MW-17***	MW-18	B-17			B-18		B-19			PZ-1		Trip Blank	NR 720 Soil	NR 746	NR 746	Site Specific
Depth (feet bgs)	18-20'	18-20'	18-20'	4-6'	20-22'	24-26'	17-19'	22-24'	2-4'	8-10'	20-22'	2-4'	8-10'	4-6'	8-10'	18-20'	20-22'	26-28'		Cleanup Levels	Table 1	Table 2	RCL
GRO	**4400**	**6100**	33	<5.85	<6.11	<5.53	NA	NA	<6.49	<5.43	<5.80	<6.39	<5.34	<5.97	<5.41	<5.78	<6.05	<6.02	<1.1	100	NA	NA	**
DRO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	NA	NA	**
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	NA	NA	**
Volatile Organic Compounds																							
Benzene	**22**	**64**	0.4	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<0.014	0.0055	8.5	1.1	**
Toluene	**84**	**360**	0.58	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<0.013	1.5	38	**	**
Ethylbenzene	**110**	**130**	0.85	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	0.014	2.9	4.6	**	**
Total Xylenes	**360**	**590**	2.87*	<.025*	<.025*	<.025*	<0.208	<0.152	<.025*	<.025*	0.0339*	<.025*	<.025*	<.025*	<.025*	<.025*	<.025*	<.025*	0.029	4.1	42	**	**
1,2-DCA	NA	NA	<.014	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	0.0049	0.69	0.54	**
1,3,5-Trimethylbenzene	**140**	**96**	0.99	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	0.02	**	11	**	**
1,2,4-Trimethylbenzene	**329**	**280**	2.7	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	0.026	**	83	**	**
n-Butylbenzene	NA	NA	1.6	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	**
sec-Butylbenzene	NA	NA	0.091	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	**
Isopropylbenzene	NA	NA	0.074	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	**
p-Isopropyltoluene	NA	NA	0.097	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	**
Naphthalene	NA	NA	0.66	<.025	<.025	<.025	<0.29	<0.22	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	2.7	**	**
n-Propylbenzene	NA	NA	0.46	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	**
Vinyl Chloride	NA	NA	0.027	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	0.00062
Methylene Chloride	NA	NA	<0.0025	<.025	<.025	0.0344	<0.29	<0.22	<.025	<.025	0.0597	0.0359	<.025	<.025	0.0334	0.072	<.025	<.025	NA	**	**	**	**
Trichloroethylene	NA	NA	<0.0025	<.025	<.025	<.025	<0.068	<0.052	<.025	0.322	0.047	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	0.11
Trichlorofluoromethane	NA	NA	<27	<.025	<.025	<.025	<0.29	<0.22	<.025	<.025	0.0356	<.025	<.025	<.025	0.036	0.0681	<.025	<.025	NA	**	**	**	**

KEY:

Trip blank submitted with soil samples from MW-7, MW-8, MW-9, and MW-10 contained slight impacts of Ethylbenzene, Xylenes, 1,3,5-TMB, and 1,2,4-TMB.

NA = Not Analyzed

Site Specific RCL, values calculated using EPA Soil Screening Level Web Site for groundwater pathway

* = Includes Total Xylenes and Styrene (compound concentrations can not be differentiated, but per the laboratory [US Filter/Enviroscan], reported concentration likely reflects Total Xylene)

** = No Standard Established

*** = Acetone detected in soil sample and trip blank at concentrations of 0.5 mg/kg and 0.2 mg/kg, respectively. Likely lab contaminant.

[ ] = Exceeds NR 720 Soil Cleanup Guidelines and/or Site Specific RCLs

BOLD = Exceeds NR 746 Table 1 or Table 2 values

All results expressed in milligrams per kilogram (mg/kg)

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-1											Chapter NR 140	
		07/09/1998	12/28/1998	07/16/1999	04/24/2000	11/14/2000	05/24/2001	08/22/2001	11/15/2001	02/21/2002	05/09/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	<5.8	NA	NA	NA	NA	NA	NA	NA	NA	N/A	NA	**	**
Volatile Organic Compounds														
Benzene	µg/l	**360**	**410**	**1100**	**493**	**1610**	**1300**	**92**	**52**	**220**	**840**	**220**	5	0.5
n-Butylbenzene	µg/l	<18	9.9	<18	<15	36.4	<7	3.6	6.5	<20	29	<6.5	**	**
s-Butylbenzene	µg/l	--	--	--	--	--	--	--	5.4	<20	13	<6.2	**	**
Chloromethane	µg/l	--	--	--	--	--	<10	<1.0	<3.1	<20	<16	<2.7	3	0.3
Dibromochloromethane	µg/l	<17	<6.8	<17	<15	<15	<70	<1.0	<2.1	<20	<11	<2.3	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	--	--	--	<3.4	<20	<17	<5.7	1,000	200
1,1 Dichloroethane	µg/l	<24	<9.8	<24	<15	<15	<4.2	<1.0	<2.4	<20	<12	<8.7	850	85
1,2 Dichloroethane	µg/l	<22	<8.8	<22	<15	<15	<5.2	<1.0	<2.3	<20	<12	<5.5	5	0.5
1,1 Dichloroethene	µg/l	<27	**64**	<27	**21.3**	<15	<21	**8.6**	**7.5**	<20	**25**	**12**	7	0.7
cis-1,2 Dichloroethene	µg/l	**740**	**1400**	**2300**	**1760**	**2990**	**3200**	**690**	**450**	**420**	**2000**	**810**	70	7
trans-1,2 Dichloroethene	µg/l	<28	<11	<28	<15	<15	<8.8	4.8	<4.0	<20	<20	<8.0	100	20
Diisopropyl ether	µg/l	--	--	--	--	--	--	--	<3.0	<20	<15	<6.0	**	**
Ethylbenzene	µg/l	50	<7	**330**	**255**	**1090**	**1300**	110	98	**550**	**1800**	**260**	700	140
Isopropylbenzene	µg/l	<18	45	<18	39.5	48.7	31	31	32	<100	61	35	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	--	--	--	<2.8	<20	<14	<5.8	**	**
Methyl Tert Butyl Ether	µg/l	<14	<5.8	<14	<30	<30	<5	<5.0	<3.4	<100	<17	<8.7	60	12
Naphthalene	µg/l	<36	<14	<36	**116**	**166**	**160**	**47**	**64**	<100	**290**	**73**	40	8
n-Propylbenzene	µg/l	<20	23	36	64.1	110	94	39	52	75	180	68	**	**
Tetrachloroethene	µg/l	<24	<9.6	<24	<15	<15	<21	<1.0	<2.8	<20	14	<6.3	5	0.5
Toluene	µg/l	54	34	**250**	**266**	**2030**	**2600**	21	8.4	74	**2700**	61	1,000	200
1,1,1 Trichloroethane	µg/l	<18	<7.2	<18	<15	<15	<5.2	<1.0	<3.4	<20	<17	<6.5	200	40
Trichloroethene	µg/l	**870**	**2000**	**330**	**444**	**288**	**120**	**590**	**640**	**300**	**81**	**490**	5	0.5
Trichlorofluoromethane	µg/l	<22	<8.8	<22	<15	<15	<7.8	<1.0	<2.6	<20	<13	<8.5	**	**
1,2,4 Trimethylbenzene	µg/l	<18	<7.2	34	<40	120	410	2.6	4.5	<20	830	<6.9	**	**
1,3,5 Trimethylbenzene	µg/l	<19	8.5	<19	<15	27.5	110	6.6	<2.6	21	130	<6.4	**	**
Trimethylbenzene (Total)	µg/l	<19	8.5	34	<40	**147.5**	**520**	9.2	4.5	21	**960**	<1.33	480	96
Vinyl Chloride	µg/l	**110**	<13	**220**	<11	**224**	**700**	**78**	<0.90	**140**	<4.5	**150**	0.2	0.02
Xylenes	µg/l	73	19	329	78.5	737	**2460**	35.7	6.7	23	**4300**	34	10,000	1000
Polycyclic Aromatic Hydrocarbons:														
Acenaphthene	µg/l	<0.044	<0.044	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	<0.0041	<0.0041	NA	NA	NA	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	<0.0067	<0.0067	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	0.17	<0.045	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	<0.043	<0.043	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	7.2	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	<0.006	<0.006	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	<0.0026	<0.0026	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:														
Nitrate	µg/l	<4.1	NA	NA	<.3	NA	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	0.29	NA	NA	0.473	NA	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	62	NA	NA	13.4	NA	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:														
Dissolved Oxygen	mg/L	2.4	0.3	0.1	0.2	NA	NA	0.31	NA	0.72	NA	NA	**	**
Redox	mV	99.3	62.8	59.8	263.9	NA	NA	93.2	NA	82.9	NA	NA	**	**
pH	none	7.4	7.8	8.1	7.9	NA	NA	7.0	NA	7.0	NA	NA	**	**
Conductivity	µS	982	878	963	896	NA	NA	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	0	0.8	0	NA	NA	2	NA	2.6	NA	NA	**	**
Temperature	C	11.5	13.5	11.9	11.7	NA	NA	12.5	NA	12.7	NA	NA	**	**
Dissolved Gases:														
Carbon Dioxide	ng/l	NA	NA	NA	55.16	NA	NA	NA	NA	45 mg/l	N/A	NA	**	**
Ethane	ng/l	NA	NA	NA	1808	NA	NA	NA	NA	1200	N/A	NA	**	**
Ethylene	ng/l	NA	NA	NA	16554	NA	NA	NA	NA	7200	N/A	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	94000	N/A	NA	**	**

Key:

ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
bold = Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
bold = Exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limits
** = No Standard Established
-- = Reported below laboratory detection limits
NA = Not Analyzed
mg/L = Milligrams per liter
µg/L = Micrograms per liter
ng/L = Nanograms per liter
µS = Microsiemens
mV = Millivolts
C = Celsius

MW-14 during the 2/21/2002 sampling contained at "D" on the laboratory analytical report, indicating a dilution

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-2				Chapter NR 140	
		07/09/1998	05/24/2001	08/22/2001	05/09/2002	ES	PAL
Soluble Lead	µg/l	<5.8	NA	NA	NA	**	**
Volatile Organic Compounds							
Benzene	µg/l	**11000**	**14000**	**4200**	**4300**	5	0.5
n-Butylbenzene	µg/l	110	<56	<100	110	**	**
s-Butylbenzene	µg/l	--	--	--	<49	**	**
Chloromethane	µg/l	--	<84	<100	<62	3	0.3
Dibromochloromethane	µg/l	<68	<560	<100	<43	60	6
Dichlorodifluoromethane	µg/l	--	--	--	<68	1,000	200
1,1 Dichloroethane	µg/l	<98	<34	<100	<85	850	85
1,2 Dichloroethane	µg/l	<88	<42	<100	<47	5	0.5
1,1 Dichloroethene	µg/l	<110	<170	<100	<85	7	0.7
cis-1,2 Dichloroethene	µg/l	**140**	**380**	<100	**460**	70	7
trans-1,2 Dichloroethene	µg/l	<110	<70	<100	<79	100	20
Diisopropyl ether	µg/l	--	--	--	**	**	**
Ethylbenzene	µg/l	**1500**	**2000**	**1700**	**1700**	700	140
Isopropylbenzene	µg/l	510	60	<500	<43	**	**
p-Isopropyltoluene	µg/l	--	--	--	**	**	**
Methyl Tert Butyl Ether	µg/l	<58	<40	<500	<67	60	12
Naphthalene	µg/l	**500**	**380**	<500	**520**	40	8
n-Propylbenzene	µg/l	88	180	200	220	**	**
Tetrachloroethene	µg/l	<96	<170	<100	<57	5	0.5
Toluene	µg/l	**20000**	**25000**	**16000**	**13000**	1,000	200
1,1,1 Trichloroethane	µg/l	<72	<42	<100	<69	200	40
Trichloroethene	µg/l	**510**	**150**	<100	**310**	5	0.5
Trichlorofluoromethane	µg/l	<88	<62	<100	<52	**	**
1,2,4 Trimethylbenzene	µg/l	940	2100	2700	2500	**	**
1,3,5 Trimethylbenzene	µg/l	310	530	750	750	**	**
Trimethylbenzene (Total)	µg/l	**1250**	**2630**	**3450**	**3250**	480	96
Vinyl Chloride	µg/l	<130	<38	<100	**230**	0.2	0.02
Xylenes	µg/l	**8000**	**11300**	**11100**	**7700**	10,000	1000
Polycyclic Aromatic Hydrocarbons:							
Acenaphthene	µg/l	<8.8	NA	NA	NA	**	**
Anthracene	µg/l	<0.81	NA	NA	NA	3000	600
Fluoranthene	µg/l	<3.1	NA	NA	NA	400	80
Fluorene	µg/l	<1.3	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	<8.9	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	190	NA	NA	NA	**	**
Naphthalene	µg/l	**510**	NA	NA	NA	40	8
Phenanthrene	µg/l	<1.2	NA	NA	NA	**	**
Pyrene	µg/l	<0.53	NA	NA	NA	250	50
Nutrient Panel:							
Nitrate	µg/l	<4.1	NA	NA	NA	**	**
Soluble Manganese	µg/l	0.24	NA	NA	NA	**	**
Sulfate	µg/l	23	NA	NA	NA	**	**
In Situ Measurements:							
Dissolved Oxygen	mg/L	0.6	NA	0.017	**	**	**
Redox	mV	103.8	NA	-34.3	**	**	**
pH	none	7.2	NA	7.0	**	**	**
Conductivity	µS	1077	NA	NA	**	**	**
Ferrous Iron	mg/L	1	NA	3.6	**	**	**
Temperature	C	11.5	NA	12.3	**	**	**
Dissolved Gases:							
Carbon Dioxide	ng/l	NA	NA	NA	**	**	**
Ethane	ng/l	NA	NA	NA	**	**	**
Ethylene	ng/l	NA	NA	NA	**	**	**
Methane	ng/l	NA	NA	NA	**	**	**

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Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-3											Chapter NR 140	
		07/09/1998	12/28/1998	07/16/1999	04/24/2000	11/14/2000	05/24/2001	08/22/2001	11/15/2001	02/21/2002	05/09/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds														
Benzene	µg/l	**1.2**	**2**	**2.3**	**1.02**	**2.95**	**1.8**	**2**	**1.7**	**2**	**1.6**	**1.1**	5	0.5
n-Butylbenzene	µg/l	<0.35	0.79	<0.35	<.15	<0.15	<0.28	<1.0	<0.61	<1.0	<0.61	<0.62	**	**
s-Butylbenzene	µg/l	--	--	--	--	--	--	--	<0.49	<1.0	<0.49	<0.62	**	**
Chloromethane	µg/l	--	--	--	--	--	<0.42	<1.0	<0.62	<1.0	<0.62	<0.27	3	0.3
Dibromochloromethane	µg/l	0.43	<0.34	<0.34	<.15	<0.15	<0.30	<1.0	<0.43	<1.0	<0.43	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	--	--	--	<0.68	<1.0	<0.68	<0.57	1,000	200
1,1 Dichloroethane	µg/l	<0.49	<0.49	<0.49	<.15	<0.15	<0.17	<1.0	<0.48	<1.0	1.1	<0.87	850	85
1,2 Dichloroethane	µg/l	<0.44	<0.44	<0.44	<.15	<0.15	<0.21	<1.0	<0.47	<1.0	<0.47	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<0.54	<0.54	<0.54	<.15	0.309	<0.85	<1.0	<0.85	<1.0	**1.1**	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	**11**	**40**	**15**	**14.5**	**27**	**8.9**	**16**	**23**	**30**	**18**	**23**	70	7
trans-1,2 Dichloroethene	µg/l	<0.56	<0.56	<0.55	<.15	0.184	<0.35	<1.0	<0.79	<1.0	<0.79	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	--	--	--	--	<0.60	<1.0	<0.60	<0.60	**	**
Ethylbenzene	µg/l	<0.35	0.46	<0.35	0.541	<0.5	<0.57	<1.0	<0.43	<1.0	<0.43	<0.53	700	140
Isopropylbenzene	µg/l	<0.37	<0.37	<0.37	0.187	0.55	0.27	<5.0	<0.43	<5.0	<0.43	<0.86	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	--	--	--	<0.57	<1.0	<0.57	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<0.29	<0.29	<0.29	<.34	<0.3	<0.20	<5.0	<0.87	<5.0	<0.67	<0.87	60	12
Naphthalene	µg/l	<0.72	<0.72	<0.72	<.8	<0.8	<0.27	<5.0	<0.59	<5.0	<0.59	<0.63	40	8
n-Propylbenzene	µg/l	<0.39	<0.39	<0.39	<.15	<0.15	<0.17	<1.0	<0.64	<1.0	<0.64	<0.95	**	**
Tetrachloroethene	µg/l	<0.48	<0.48	<0.48	<.15	<0.15	<0.85	<1.0	<0.57	<1.0	<0.57	<0.63	5	0.5
Toluene	µg/l	1.3	<0.32	<0.32	<.4	<0.4	0.13	<1.0	<0.47	<1.0	<0.47	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<0.36	<0.36	<0.36	<.15	<0.15	<0.21	<1.0	<0.69	<1.0	<0.69	<0.65	200	40
Trichloroethene	µg/l	**24**	**36**	**13**	<.4	**25.7**	**16**	**28**	**55**	**74**	**32**	**110**	5	0.5
Trichlorofluoromethane	µg/l	<0.44	<0.44	<0.44	<.15	<0.15	<0.31	<1.0	<0.52	<1.0	<0.52	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	<0.36	0.87	<0.36	<.4	<0.4	<0.34	<1.0	<0.51	<1.0	<0.51	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	<0.38	1.1	<0.38	<.15	<0.15	<0.29	<1.0	<0.52	<1.0	<0.52	<0.64	**	**
Trimethylbenzene (Total)	µg/l	<0.38	1.97	<0.74	<.19	<0.55	<0.63	<2.0	<1.03	<2.0	<1.03	<1.33	480	96
Vinyl Chloride	µg/l	**5.9**	**17**	**25**	**5.49**	**13.8**	<0.19	**8.9**	<0.18	**8.3**	<0.18	**4.4**	0.2	0.02
Xylenes	µg/l	1.91	0.62	1.9	<.19	0.365	0.29	<3.0	<1.94	<3.0	<1.4	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:														
Acenaphthene	µg/l	NA	<0.0041	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	NA	<0.0041	NA	NA	NA	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	NA	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	NA	<0.0067	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	NA	<0.045	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	NA	<0.043	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	NA	<0.048	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	NA	<0.006	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	NA	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:														
Nitrate	µg/l	NA	NA	NA	<.3	NA	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	NA	NA	0.658	NA	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	NA	NA	32.5	NA	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:														
Dissolved Oxygen	mg/L	3.1	0.2	0.1	0.2	NA	NA	0.52	NA	0.64	NA	NA	**	**
Redox	mV	154	68.9	208.9	266.4	NA	NA	63.7	NA	259.3	NA	NA	**	**
pH	none	7.3	7.8	8.3	8.2	NA	NA	7.0	NA	7.0	NA	NA	**	**
Conductivity	µS	1132	1108	1261	1055	NA	NA	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	0	0	0	NA	NA	0	NA	0	NA	NA	**	**
Temperature	C	10.2	12.7	10.9	10.9	NA	NA	11.8	NA	11.1	NA	NA	**	**
Dissolved Gases:														
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	37000	84000	89 mg/l	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	<10	230	280	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	<10	370	490	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	<10	63	73000	NA	NA	**	**

Key:

ES	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limits
**	= No Standard Established
--	= Reported below laboratory detection limits
NA	= Not Analyzed
mg/L	= Milligrams per liter
µg/L	= Micrograms per liter
ng/L	= Nanograms per liter
µS	= Microsiemens
mV	= Millivolts
C	= Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-4											Chapter NR 140	
		07/09/1998	12/28/1998	07/16/1999	04/24/2000	11/14/2000	05/24/2001	08/22/2001	11/15/2001	02/21/2002	05/09/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	<5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds														
Benzene	µg/l	<16	<31	<31	<15	<150	**6.4**	<100	<9.6	<50	<9.6	<12	5	0.5
n-Butylbenzene	µg/l	290	780	340	NA	<150	<1.4	<100	82	90	73	<32	**	**
s-Butylbenzene	µg/l	--	--	--	--	--	--	--	18	<50	16	<31	**	**
Chloromethane	µg/l	--	--	--	--	--	<2.1	<100	<12	<50	<12	<14	3	0.3
Dibromochloromethane	µg/l	<17	<34	<34	NA	<150	<14	<100	<8.6	<50	<12	<12	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	--	--	--	<14	<50	<14	<28	1,000	200
1,1 Dichloroethane	µg/l	<24	<49	<49	NA	<150	<0.85	<100	<9.6	<50	<9.6	<44	850	85
1,2 Dichloroethane	µg/l	<22	<44	<44	NA	<150	<1.1	<100	<9.4	<50	<9.4	<28	5	0.5
1,1 Dichloroethene	µg/l	<27	<54	<54	NA	<150	<4.2	<100	<17	<50	<17	<28	7	0.7
cis-1,2 Dichloroethene	µg/l	<20	<49	**59**	NA	<150	**32**	<100	<15	<50	**26**	<40	70	7
trans-1,2 Dichloroethene	µg/l	<28	<56	<56	NA	<150	<1.7	<100	<16	<50	<16	<40	100	20
Diisopropyl ether	µg/l	--	--	--	--	--	--	--	<12	<50	<12	<30	**	**
Ethylbenzene	µg/l	**1500**	**3200**	**1200**	**1830**	**2270**	**240**	**1400**	**1,800**	**2,000**	**1,100**	**1,500**	700	140
Isopropylbenzene	µg/l	71	150	<37	NA	152	31	<500	110	<250	84	120	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	--	--	--	<11	<50	<11	<29	**	**
Methyl Tert Butyl Ether	µg/l	<14	<29	<29	<30	<300	<1.0	<500	<13	<250	<13	<44	60	12
Naphthalene	µg/l	**550**	**570**	**300**	NA	**1040**	**37**	<500	**780**	**910**	**350**	**680**	40	8
n-Propylbenzene	µg/l	220	420	200	NA	902	130	340	370	400	290	420	**	**
Tetrachloroethene	µg/l	<24	<48	<46	NA	<150	<4.2	<100	<11	<50	<11	<32	5	0.5
Toluene	µg/l	51	81	81	97.6	<400	14	<100	26	<50	55	<42	1,000	200
1,1,1 Trichloroethane	µg/l	<18	<36	<36	NA	<150	<1.1	<100	<14	<50	<14	<32	200	40
Trichloroethene	µg/l	<22	<44	<44	NA	<400	**10**	<100	<18	<50	**22**	<20	5	0.5
Trichlorofluoromethane	µg/l	<22	<44	<44	NA	<150	<1.6	<100	<10	<50	<10	<42	**	**
1,2,4 Trimethylbenzene	µg/l	1900	4300	1600	2830	3960	710	2900	2,900	3,300	2,200	3,200	**	**
1,3,5 Trimethylbenzene	µg/l	630	1300	<38	628	945	91	700	720	840	410	700	**	**
Trimethylbenzene (Total)	µg/l	**2530**	**5600**	**1600**	**3458**	**4905**	**801**	**3600**	**3,620**	**4,140**	**2,610**	**3,900**	480	96
Vinyl Chloride	µg/l	<32	<63	<63	NA	<110	<0.95	<100	<3.6	<50	<3.6	<5.5	0.2	0.02
Xylenes	µg/l	**3039**	**5897**	**1696**	**2935**	**2000**	226	**2000**	**3,070**	**3,686**	**1,400**	**2,650**	10,000	1000
Polycyclic Aromatic Hydrocarbons:														
Acenaphthene	µg/l	<8.8	<0.044	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	<0.81	<0.0041	NA	NA	NA	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	<3.1	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	<1.3	<0.0067	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	<8.9	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	280	<0.043	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	**540**	**570**	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	<1.2	<0.006	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	<0.53	<0.0026	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:														
Nitrate	µg/l	<4.1	NA	NA	<.3	NA	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	0.51	NA	NA	0.278	NA	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	88	NA	NA	19	NA	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:														
Dissolved Oxygen	mg/L	0.3	0.2	0.1	0.2	NA	NA	0.22	NA	0.78	NA	NA	**	**
Redox	mV	67.5	-66.9	-90	-62.9	NA	NA	-15	NA	-60.6	NA	NA	**	**
pH	none	7.5	7.7	7.6	8.3	NA	NA	7.0	NA	7.0	NA	NA	**	**
Conductivity	µS	1186	1357	1249	13.48	NA	NA	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	2	7	6.4	3.6	NA	NA	4.8	NA	NA	NA	NA	**	**
Temperature	C	9.8	11.7	10.2	10.5	NA	NA	10.8	NA	10.9	NA	NA	**	**
Dissolved Gases:														
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**

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PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limits
**	= No Standard Established
--	= Reported below laboratory detection limits
NA	= Not Analyzed
mg/L	= Milligrams per liter
µg/L	= Micrograms per liter
ng/L	= Nanograms per liter
µS	= Microsiemens
mV	= Millivolts
C	= Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-5											Chapter NR 140	
		07/09/1998	12/28/1998	07/16/1999	04/24/2000	11/14/2000	05/24/2001	08/22/2001	11/15/2001	02/21/2002	05/09/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	<5.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds														
Benzene	µg/l	**750**	**53**	**170**	**5030**	**796/>1430**	**2800**	**730**	**659**	**250**	**5400**	**1100**	5	0.5
n-Butylbenzene	µg/l	<7.0	<0.35	<1.8	<75	<0.15	<7	<1.0	<3.0	<10	<30	<6.5	**	**
s-Butylbenzene	µg/l	--	--	--	--	--	--	--	<2.4	<10	<24	<6.2	**	**
Chloromethane	µg/l	--	--	--	--	--	<10	<1.0	<3.1	<10	<31	<2.7	3	0.3
Dibromochloromethane	µg/l	<6.8	<0.34	<1.7	<75	<0.15	<70	<1.0	<2.1	<10	<30	<2.3	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	--	--	--	<3.4	<10	<34	<5.7	1,000	200
1,1 Dichloroethane	µg/l	<9.8	<0.49	<2.4	<75	<0.15	<4.2	<1.0	<2.4	<10	<24	<8.7	850	85
1,2 Dichloroethane	µg/l	**66**	**12**	**12**	<75	**7.21**	<5.2	<1.0	<2.3	<10	<23	<5.5	5	0.5
1,1 Dichloroethene	µg/l	**<11**	**1.3**	<2.7	<75	0.556	<21	<1.0	<4.2	<10	<42	<5.6	7	0.7
cis-1,2 Dichloroethene	µg/l	**94**	**45**	**40**	**86.9**	**55.1**	**70**	**43**	**48**	**37**	**85**	**49**	70	7
trans-1,2 Dichloroethene	µg/l	<11	1	<2.8	<75	<0.15	<8.8	<1.0	<4.0	<10	<40	<8.0	100	20
Diisopropyl ether	µg/l	--	--	--	--	--	--	--	<3.0	<10	<30	<6.0	**	**
Ethylbenzene	µg/l	60	<0.35	<1.8	**576**	4.91	**200**	**170**	**240**	83	**620**	**120**	700	140
Isopropylbenzene	µg/l	9.2	3.7	<1.8	<75	9.48	16	20	23	<10	32	18	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	--	--	--	<2.8	<10	<28	<5.8	**	**
Methyl Tert Butyl Ether	µg/l	<5.8	1.8	<1.4	<150	9.08	<5	<5.0	<3.4	<50	<34	<8.7	60	12
Naphthalene	µg/l	<14	1.4	<3.6	<400	<1.0	**14**	**20**	**38**	<50	**62**	**31**	40	8
n-Propylbenzene	µg/l	<7.8	<0.39	<2	<75	3.06	11	17	27	13	44	17	**	**
Tetrachloroethene	µg/l	<9.6	<0.48	<2.4	<75	<0.15	<21	<1.0	<2.8	<10	<44	<6.3	5	0.5
Toluene	µg/l	30	2.6	3.8	<200	11.2	93	47	19	<10	120	51	1,000	200
1,1,1 Trichloroethane	µg/l	<7.2	<0.36	<1.8	<75	<0.15	<5.2	<1.0	<3.4	<10	<34	<6.5	200	40
Trichloroethene	µg/l	**69**	**30**	**13**	<200	**15.1**	**9**	<20	**16**	**13**	<44	**11**	5	0.5
Trichlorofluoromethane	µg/l	<8.8	<0.44	<2.2	<75	<0.15	<7.8	<1.0	<2.6	<10	<26	<8.5	**	**
1,2,4 Trimethylbenzene	µg/l	<7.2	0.81	<1.8	<200	<0.4	<8.5	4.2	5.4	<10	28	<6.9	**	**
1,3,5 Trimethylbenzene	µg/l	<7.6	0.79	<1.9	<75	<0.15	<7.2	2	3.6	<10	<26	<5.4	**	**
Trimethylbenzene (Total)	µg/l	<7.6	1.6	<3.7	<275	<0.55	<15.7	6.2	9.0	<20	<54	<12.3	480	96
Vinyl Chloride	µg/l	<13	**73**	**40**	<55	<0.12	<4.8	**36**	<0.90	**31**	<9.0	**28**	0.2	0.02
Xylenes	µg/l	42	3.73	<5.4	<275	1.86	76	66	39	<30	78	47	10,000	1000
Polycyclic Aromatic Hydrocarbons:														
Acenaphthene	µg/l	<0.065	<0.044	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	<0.006	<0.0041	NA	NA	NA	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	<0.022	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	<0.0099	<0.0067	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	0.12	<0.045	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	0.16	<0.043	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	2.5	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	<0.0088	<0.006	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	<0.0039	<0.0026	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:														
Nitrate	µg/l	<4.1	NA	NA	<.3	NA	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	0.59	NA	NA	1.09	NA	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	150	NA	NA	32.3	NA	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:														
Dissolved Oxygen	mg/L	4.1	0.2	0.1	0.2	NA	NA	0.31	NA	0.59	NA	NA	**	**
Redox	mV	126.6	17.8	2.1	260.9	NA	NA	48.5	NA	97.2	NA	NA	**	**
pH	none	7.3	7.9	7.8	8.1	NA	NA	7.0	NA	7.0	NA	NA	**	**
Conductivity	µS	1761	1689	1815	1447	NA	NA	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	0.2	1.4	0.6	NA	NA	2.2	NA	2.2	NA	NA	**	**
Temperature	C	11.9	14.8	12.5	12	NA	NA	12.8	NA	12.9	NA	NA	**	**
Dissolved Gases:														
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**

Key:

ES	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limits
**	= No Standard Established
--	= Reported below laboratory detection limits
NA	= Not Analyzed
mg/L	= Milligrams per liter
µg/L	= Micrograms per liter
ng/L	= Nanograms per liter
µS	= Microsiemens
mV	= Millivolts
C	= Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

		MW-6											Chapter NR 140	
ANALYTE	Date	07/09/1998	12/28/1998	07/16/1999	04/24/2000	11/14/2000	05/24/2001	08/22/2001	11/15/2001	02/21/2002	05/09/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds														
Benzene	µg/l	**0.52**	**0.53**	<0.31	<.75	<0.15	<0.29	<1.0	<0.48	<1.0	<0.48	<0.25	5	0.5
n-Butylbenzene	µg/l	<0.35	<0.35	<0.35	<.75	<0.15	<0.28	<1.0	<0.61	<1.0	<0.61	<0.65	**	**
s-Butylbenzene	µg/l	--	--	--	--	--	--	--	<0.49	<1.0	<0.49	<0.62	**	**
Chloromethane	µg/l	--	--	--	--	--	<0.42	<1.0	<0.62	<1.0	<0.62	<0.27	3	0.3
Dibromochloromethane	µg/l	<0.34	<0.34	<0.34	<.75	<0.15	<2.8	<1.0	<0.43	<1.0	<0.61	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	--	--	--	<0.68	<1.0	4.6	5.2	1,000	200
1,1 Dichloroethane	µg/l	<0.49	<0.49	<0.49	<.75	<0.15	<0.17	<1.0	<0.48	<1.0	<0.48	<0.87	850	85
1,2 Dichloroethane	µg/l	**21**	**25**	**13**	**10.4**	**8.05**	**5.3**	**13**	**12**	**8.9**	**5.5**	**17**	5	0.5
1,1 Dichloroethene	µg/l	<0.54	<0.54	<0.54	<.75	<0.15	<0.85	<1.0	<0.85	<1.0	<0.85	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	<0.39	<0.39	<0.39	<.75	<0.15	<0.27	<1.0	<0.73	<1.0	<0.73	<0.81	70	7
trans-1,2 Dichloroethene	µg/l	<0.56	<0.56	<0.56	<.75	<0.15	<0.35	<1.0	<0.79	<1.0	<0.73	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	--	--	--	--	0.75	<1.0	<0.60	0.78	**	**
Ethylbenzene	µg/l	<0.35	0.4	<0.35	<2.5	<0.15	<0.57	<1.0	<0.43	<1.0	<0.43	<0.53	700	140
Isopropylbenzene	µg/l	<0.37	<0.37	<0.37	<.75	<0.15	<0.19	<5.0	<0.43	<5.0	<0.43	<0.66	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	--	--	--	<0.57	<1	<0.57	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	**28**	**38**	<0.29	**78.9**	**80.8**	**42**	**67**	**57**	**40**	**22**	**44**	60	12
Naphthalene	µg/l	<0.72	<0.048	<0.72	<4.0	<1.0	<0.27	<5.0	<0.59	<5.0	<0.59	<0.63	40	8
n-Propylbenzene	µg/l	<0.39	<0.39	<0.39	<.75	<0.15	<0.17	<1.0	<0.64	<1.0	<0.64	<0.95	**	**
Tetrachloroethene	µg/l	<0.48	<0.48	<0.48	<.75	<0.15	<0.85	<1.0	<0.57	<1.0	<0.57	<0.63	5	0.5
Toluene	µg/l	0.5	<0.32	<0.32	<2.0	<0.4	<0.13	<1.0	<0.47	<1.0	<0.47	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<0.36	<0.36	<0.36	<.75	<0.15	<0.21	<1.0	<0.69	<1.0	<0.69	<0.65	200	40
Trichloroethene	µg/l	<0.44	<0.44	<0.44	<2.0	0.109	<0.32	<1.0	<0.89	<1.0	<0.89	<0.39	5	0.5
Trichlorofluoromethane	µg/l	<0.44	<0.44	<0.44	<.75	<0.15	<0.31	<1.0	<0.52	<1.0	<0.52	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	<0.36	<0.36	<0.36	<2.0	<0.4	<0.34	<1.0	<0.51	<1.0	<0.51	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	<0.38	<0.38	<0.38	<.75	<0.15	<0.29	<1.0	<0.52	<1.0	<0.52	<0.64	**	**
Trimethylbenzene (Total)	µg/l	<0.38	<0.38	<0.74	<2.75	<0.55	<0.63	<2.0	<1.03	<2.0	<1.03	<1.33	480	96
Vinyl Chloride	µg/l	<0.63	<0.63	<0.63	<.55	<0.12	<0.19	<1.0	<0.18	<1.0	<0.18	<0.11	0.2	0.02
Xylenes	µg/l	<0.73	<0.73	<1.09	<2.75	<0.55	<0.63	<3.0	<1.94	<3.0	<1.4	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:														
Acenaphthene	µg/l	NA	<0.044	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	NA	<0.0041	NA	NA	NA	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	NA	<0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	NA	<0.0067	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	NA	<0.045	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	NA	<0.043	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	NA	<0.048	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	NA	<0.006	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	NA	<0.0026	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:														
Nitrate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:														
Dissolved Oxygen	mg/L	8.6	0.2	0.1	0.4	NA	NA	0.32	NA	0.58	NA	NA	**	**
Redox	mV	143.6	44.6	NA	275.1	NA	NA	153.6	NA	183.1	NA	NA	**	**
pH	none	7.1	7.7	7.8	8.0	NA	NA	7.0	NA	7.0	NA	NA	**	**
Conductivity	µS	1088	1066	1117	1095	NA	NA	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	0	0	0	NA	NA	0	NA	0	NA	NA	**	**
Temperature	C	12.5	14.2	13.3	10.4	NA	NA	13.3	NA	12.7	NA	NA	**	**
Dissolved Gases:														
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**

Key:

ES	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limits
**	= No Standard Established
--	= Reported below laboratory detection limits
NA	= Not Analyzed
mg/L	= Milligrams per liter
µg/L	= Micrograms per liter
ng/L	= Nanograms per liter
µS	= Microsiemens
mV	= Millivolts
C	= Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-7								Chapter NR 140	
		12/28/1998	07/16/1999	04/24/2000	11/14/2000	08/22/2001	11/15/2001	02/21/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds											
Benzene	µg/l	<0.31	<0.31	<.15	<0.15	<1.0	<0.48	<1.0	<0.25	5	0.5
n-Butylbenzene	µg/l	<0.35	<0.35	NA	<0.15	<1.0	<0.61	<1.0	<0.65	**	**
s-Butylbenzene	µg/l	--	--	--	--	--	<0.49	<1.0	<0.62	**	**
Chloromethane	µg/l	--	--	--	--	<1.0	<0.62	<1.0	<0.27	3	0.3
Dibromochloromethane	µg/l	<0.34	<0.34	NA	<0.15	<1.0	<0.43	<1.0	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	--	<0.68	<1.0	<0.57	1,000	200
1,1 Dichloroethane	µg/l	<0.49	<0.49	NA	<0.15	<1.0	<0.48	<1.0	<0.87	850	85
1,2 Dichloroethane	µg/l	<0.44	<0.44	NA	0.224	<1.0	<0.47	<1.0	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<0.54	<0.54	NA	<0.15	<1.0	<0.85	<1.0	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	<0.39	<0.39	NA	<0.15	<1.0	<0.73	<1.0	<0.81	70	7
trans-1,2 Dichloroethene	µg/l	<0.56	<0.56	NA	<0.15	<1.0	<0.79	<1.0	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	--	--	<0.60	<1.0	<0.60	**	**
Ethylbenzene	µg/l	<0.35	<0.35	<.5	<0.15	<1.0	<0.43	<1.0	<0.53	700	140
Isopropylbenzene	µg/l	<0.37	<0.37	NA	<0.15	<5.0	<0.43	<5.0	<0.66	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	--	<0.57	<1	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<0.29	<0.29	<.3	<0.14	<5.0	<0.67	<5.0	<0.87	60	12
Naphthalene	µg/l	1.8	<0.72	NA	<1.0	<5.0	<0.59	<5.0	<0.63	40	8
n-Propylbenzene	µg/l	<0.39	<0.39	NA	<0.15	<1.0	<0.64	<1.0	<0.95	**	**
Tetrachloroethene	µg/l	<0.48	<0.48	NA	<0.15	<1.0	<0.57	<1.0	<0.63	5	0.5
Toluene	µg/l	<0.32	<0.32	<.4	<0.4	<1.0	<0.47	<1.0	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<0.36	<0.36	NA	<0.15	<1.0	<0.69	<1.0	<0.65	200	40
Trichloroethene	µg/l	<0.44	<0.44	NA	<0.1	<1.0	<0.89	<1.0	<0.39	5	0.5
Trichlorofluoromethane	µg/l	<0.44	<0.44	NA	<0.15	<1.0	<0.52	<1.0	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	<0.36	<0.36	<.4	<0.4	<1.0	<0.51	<1.0	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	<0.38	<0.38	<.15	<0.15	<1.0	<0.52	<1.0	<0.64	**	**
Trimethylbenzene (Total)	µg/l	<0.38	<0.74	<.55	<0.55	<2.0	<1.03	<2.0	<1.33	480	96
Vinyl Chloride	µg/l	<0.63	<0.63	NA	<0.12	<1.0	<0.18	<1.0	<0.11	0.2	0.02
Xylenes	µg/l	<0.73	<1.09	<.55	<0.55	<3.0	<1.94	<3.0	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:											
Acenaphthene	µg/l	2.2	NA	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	0.48	NA	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	0.69	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	1.1	NA	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	1.9	NA	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	<0.043	NA	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	<0.048	NA	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	1.5	NA	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	0.57	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:											
Nitrate	µg/l	NA	NA	<.3	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	NA	0.059	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	NA	61.7	NA	NA	NA	NA	NA	**	**
In Situ Measurements:											
Dissolved Oxygen	mg/L	2.8	0.5	0.2	NA	0.8	NA	0.64	NA	**	**
Redox	mV	27.3	78.3	280.4	NA	152.2	NA	155.9	NA	**	**
pH	none	8.0	7.8	8.0	NA	7.0	NA	7.0	NA	**	**
Conductivity	µS	1066	1035	1003	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	0	0	NA	0	NA	0	NA	**	**
Temperature	C	12.4	10.9	11.2	NA	11.7	NA	11.3	NA	**	**
Dissolved Gases:											
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	**	**

Key:

ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
bold = Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
bold = Exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limits
** = No Standard Established
-- = Reported below laboratory detection limits
NA = Not Analyzed
mg/L = Milligrams per liter
µg/L = Micrograms per liter
ng/L = Nanograms per liter
µS = Microsiemens
mV = Millivolts
C = Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-8								Chapter NR 140	
		12/28/1998	07/16/1999	04/24/2000	11/14/2000	08/22/2001	11/15/2001	02/21/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds											
Benzene	µg/l	<0.31	<0.31	<.15	<0.15	<1.0	<0.48	<1.0	<0.25	5	0.5
n-Butylbenzene	µg/l	<0.35	<0.36	<.15	<0.15	<1.0	<0.61	<1.0	<0.96	**	**
s-Butylbenzene	µg/l	--	--	--	--	--	<0.49	<1.0	<0.62	**	**
Chloromethane	µg/l	--	--	--	--	<1.0	<0.62	<1.0	<0.27	3	0.3
Dibromochloromethane	µg/l	<0.34	<0.34	<.15	<0.15	<1.0	<0.43	<1.0	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	--	3.0	<1.0	3.1	1,000	200
1,1 Dichloroethane	µg/l	<0.49	<0.49	<.15	<0.15	<1.0	<0.48	<1.0	<0.87	850	85
1,2 Dichloroethane	µg/l	<0.44	<0.44	<.15	<0.15	<1.0	<0.47	<1.0	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<0.54	<0.54	<.15	<0.15	<1.0	<0.85	<1.0	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	<0.39	<0.39	<.15	<0.15	<1.0	<0.73	<1.0	<0.81	70	7
trans-1,2 Dichloroethene	µg/l	<0.56	<0.56	<.15	<0.15	<1.0	<0.79	<1.0	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	--	--	<0.60	<1.0	<0.60	**	**
Ethylbenzene	µg/l	<0.35	<0.35	<.5	<0.15	<1.0	<0.43	<1.0	<0.53	700	140
Isopropylbenzene	µg/l	<0.37	<0.37	<.15	<0.15	<5.0	<0.43	<5.0	<0.68	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	--	<0.57	<1.0	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<0.29	<0.29	<.3	<0.14	<5.0	<0.87	<5.0	<0.87	60	12
Naphthalene	µg/l	<0.72	<0.72	<.8	<1.0	<5.0	<0.59	<5.0	<0.63	40	8
n-Propylbenzene	µg/l	<0.39	<0.39	<.15	<0.15	<1.0	<0.64	<1.0	<0.95	**	**
Tetrachloroethene	µg/l	<0.48	<0.48	<.15	<0.15	<1.0	<0.57	<1.0	<0.63	5	0.5
Toluene	µg/l	<0.32	<0.32	<.4	<0.4	<1.0	<0.47	<1.0	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<0.36	<0.36	<.15	<0.15	<1.0	<0.89	<1.0	<0.65	200	40
Trichloroethene	µg/l	**3.8**	<0.44	**1.93**	**0.727**	<1.0	<0.89	<1.0	<0.39	5	0.5
Trichlorofluoromethane	µg/l	<0.44	<0.44	<.15	<0.15	<1.0	<0.52	<1.0	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	<0.36	<0.36	<.4	<0.4	<1.0	<0.51	<1.0	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	<0.38	<0.38	<.15	<0.15	<1.0	<0.52	<1.0	<0.64	**	**
Trimethylbenzene (Total)	µg/l	<0.38	<0.74	<.55	<0.55	<2.0	<1.03	<2.0	<1.33	480	96
Vinyl Chloride	µg/l	<0.63	<0.63	<.11	<0.12	<1.0	<0.18	<1.0	<0.11	0.2	0.02
Xylenes	µg/l	<0.73	<1.09	<.55	<0.55	<3.0	<1.94	<3.0	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:											
Acenaphthene	µg/l	<0.044	NA	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	<0.0041	NA	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	<0.015	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	<0.0067	NA	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	<0.045	NA	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	<0.043	NA	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	<0.048	NA	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	<0.006	NA	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	<0.0026	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:											
Nitrate	µg/l	NA	NA	<.3	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	NA	0.296	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	NA	28.1	NA	NA	NA	NA	NA	**	**
In Situ Measurements:											
Dissolved Oxygen	mg/L	3.7	1.3	0.2	NA	1.04	NA	0.87	NA	**	**
Redox	mV	78.3	199.5	189.7	NA	165.3	NA	263.2	NA	**	**
pH	none	7.9	8.3	8.1	NA	7.0	NA	7.0	NA	**	**
Conductivity	µS	946	963	804	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	0	0	NA	0	NA	0	NA	**	**
Temperature	C	11.6	10.2	10.6	NA	11.1	NA	10.8	NA	**	**
Dissolved Gases:											
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	**	**

Key:

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** = No Standard Established
-- = Reported below laboratory detection limits
NA = Not Analyzed
mg/L = Milligrams per liter
µg/L = Micrograms per liter
ng/L = Nanograms per liter
µS = Microsiemens
mV = Millivolts
C = Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-9							Chapter NR 140	
		12/28/1998	04/24/2000	11/14/2000	08/22/2001	11/15/2001	02/21/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds										
Benzene	µg/l	<0.31	<.15	<0.15	<1.0	<0.48	<1.0	<0.25	5	0.5
n-Butylbenzene	µg/l	<0.35	NA	<0.15	<1.0	<0.61	<1.0	<0.65	**	**
s-Butylbenzene	µg/l	--	--	--	--	<0.49	<1.0	<0.82	**	**
Chloromethane	µg/l	--	--	--	<1.0	<0.62	<1.0	<0.27	3	0.3
Dibromochloromethane	µg/l	<0.34	NA	<0.15	<1.0	<0.43	<1.0	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	<0.68	<1.0	<0.57	1,000	200
1,1 Dichloroethane	µg/l	<0.49	NA	<0.15	<1.0	<0.48	<1.0	<0.87	850	85
1,2 Dichloroethane	µg/l	<0.44	NA	<0.15	<1.0	<0.47	<1.0	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<0.54	NA	<0.15	<1.0	<0.85	<1.0	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	<0.39	NA	<0.15	<1.0	<0.73	<1.0	<0.81	70	7
trans-1,2 Dichloroethene	µg/l	<0.56	NA	<0.15	<1.0	<0.79	<1.0	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	--	<0.60	<1.0	<0.60	**	**
Ethylbenzene	µg/l	<0.35	<.5	<0.15	<1.0	<0.43	<1.0	<0.53	700	140
Isopropylbenzene	µg/l	<0.37	NA	<0.15	<5.0	<0.43	<5.0	<0.66	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	<0.57	<1.0	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<0.29	<.3	<0.14	<5.0	<0.67	<5.0	<0.87	60	12
Naphthalene	µg/l	<0.72	NA	<1.0	<5.0	<0.59	<5.0	<0.53	40	8
n-Propylbenzene	µg/l	<0.39	NA	<0.15	<1.0	<0.64	<1.0	<0.95	**	**
Tetrachloroethene	µg/l	<0.48	NA	<0.15	<1.0	<0.57	<1.0	<0.63	5	0.5
Toluene	µg/l	<0.32	<.4	<0.4	<1.0	<0.47	<1.0	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<0.36	NA	<0.15	<1.0	<0.69	<1.0	<0.65	200	40
Trichloroethene	µg/l	<0.44	NA	<0.1	<1.0	<0.89	<1.0	<0.39	5	0.5
Trichlorofluoromethane	µg/l	<0.44	NA	<0.15	<1.0	<0.52	<1.0	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	<0.36	<.4	<0.4	<1.0	<0.51	<1.0	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	<0.38	<.15	<0.15	<1.0	<0.52	<1.0	<0.64	**	**
Trimethylbenzene (Total)	µg/l	<0.38	<.55	<0.55	<2.0	<1.03	<2.0	<1.33	480	96
Vinyl Chloride	µg/l	<0.63	NA	<0.12	<1.0	<0.18	<1.0	<0.11	0.2	0.02
Xylenes	µg/l	<0.73	<.55	<0.55	<3.0	<1.94	<3.0	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:										
Acenaphthene	µg/l	<0.044	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	<0.0041	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	<0.015	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	<0.0067	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	<0.045	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	<0.043	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	<0.048	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	<0.006	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	<0.0026	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:										
Nitrate	µg/l	NA	1.23	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	0.009	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	36.1	NA	NA	NA	NA	NA	**	**
In Situ Measurements:										
Dissolved Oxygen	mg/L	0.7	5.1	NA	2.4	NA	0.71	NA	**	**
Redox	mV	47	185	NA	136	NA	138.9	NA	**	**
pH	none	7.9	8.0	NA	7.0	NA	7.0	NA	**	**
Conductivity	µS	1110	708	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	0	NA	0	NA	0	NA	**	**
Temperature	C	13.7	9.2	NA	12.8	NA	10.8	NA	**	**
Dissolved Gases:										
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	NA	**	**

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mg/L	= Milligrams per liter
µg/L	= Micrograms per liter
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µS	= Microsiemens
mV	= Millivolts
C	= Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-10							Chapter NR 140	
		12/28/1998	04/24/2000	11/14/2000	08/22/2001	11/15/2001	02/21/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds										
Benzene	µg/l	<0.31	<.15	<0.15	<1.0	<0.48	<1.0	<0.25	5	0.5
n-Butylbenzene	µg/l	<0.35	NA	<0.15	<1.0	<0.61	<1.0	<0.65	**	**
s-Butylbenzene	µg/l	--	--	--	--	<0.49	<1.0	<0.62	**	**
Chloromethane	µg/l	--	--	--	<1.0	<0.62	<1.0	<0.27	3	0.3
Dibromochloromethane	µg/l	<0.34	NA	<0.15	<1.0	<0.43	<1.0	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	<0.68	<1.0	<0.57	1,000	200
1,1 Dichloroethane	µg/l	<0.49	NA	<0.15	<1.0	<0.48	<1.0	<0.87	850	85
1,2 Dichloroethane	µg/l	<0.44	NA	<0.15	<1.0	<0.47	<1.0	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<0.54	NA	<0.15	<1.0	<0.85	<1.0	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	<0.39	NA	<0.15	<1.0	<0.73	<1.0	<0.81	70	7
trans-1,2 Dichloroethene	µg/l	<0.56	NA	<0.15	<1.0	<0.79	<1.0	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	--	<0.60	<1.0	<0.60	**	**
Ethylbenzene	µg/l	<0.35	<.5	<0.15	<1.0	<0.43	<1.0	<0.53	700	140
Isopropylbenzene	µg/l	<0.37	NA	<0.15	<5.0	<0.43	<5.0	<0.66	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	<0.57	<1.0	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<0.29	<.3	<0.14	<5.0	<0.67	<5.0	<0.87	60	12
Naphthalene	µg/l	<0.048	NA	<1.0	<5.0	<0.59	<5.0	<0.63	40	8
n-Propylbenzene	µg/l	<0.39	NA	<0.15	<1.0	<0.64	<1.0	<0.95	**	**
Tetrachloroethene	µg/l	<0.48	NA	<0.15	<1.0	<0.57	<1.0	<0.63	5	0.5
Toluene	µg/l	<0.32	<.4	<0.4	<1.0	<0.47	<1.0	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<0.36	NA	<0.15	<1.0	<0.69	<1.0	<0.65	200	40
Trichloroethene	µg/l	<0.44	NA	0.109	<1.0	<0.89	<1.0	<0.39	5	0.5
Trichlorofluoromethane	µg/l	<0.44	NA	<0.15	<1.0	<0.52	<1.0	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	<0.36	<.4	<0.4	<1.0	<0.51	<1.0	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	<0.38	<.15	<0.15	<1.0	<0.52	<1.0	<0.64	**	**
Trimethylbenzene (Total)	µg/l	<0.38	<.55	<0.55	<2.0	<1.03	<2.0	<1.33	480	96
Vinyl Chloride	µg/l	<0.63	NA	<0.12	<1.0	<0.18	<1.0	<0.11	0.2	0.02
Xylenes	µg/l	<0.73	<.55	<0.55	<3.0	<1.94	<3.0	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:										
Acenaphthene	µg/l	<0.044	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	<0.0041	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	<0.015	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	<0.0067	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	<0.045	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	<0.043	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	<0.048	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	0.16	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	0.032	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:										
Nitrate	µg/l	NA	0.88	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	0.013	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	57.8	NA	NA	NA	NA	NA	**	**
In Situ Measurements:										
Dissolved Oxygen	mg/L	5.6	1.8	NA	4.25	NA	0.85	NA	**	**
Redox	mV	61.3	189.3	NA	147.7	NA	81.5	NA	**	**
pH	none	8.0	8.3	NA	7.0	NA	7.0	NA	**	**
Conductivity	µS	817	799	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	0	NA	0	NA	0	NA	**	**
Temperature	C	10.6	10	NA	10.5	NA	10.3	NA	**	**
Dissolved Gases:										
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	NA	**	**

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Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-11							Chapter NR 140	
		07/16/1999	04/24/2000	05/24/2001	08/22/2001	11/15/2001	05/09/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds										
Benzene	µg/l	**5200**	NA	**3900**	**3700**	**870**	**2700**	**530**	5	0.5
n-Butylbenzene	µg/l	320	NA	<28	<100	<12	81	<6.5	**	**
s-Butylbenzene	µg/l	--	--	--	--	<9.8	<49	<6.2	**	**
Chloromethane	µg/l	--	--	<42	<100	<12	<62	<2.7	3	0.3
Dibromochloromethane	µg/l	<34	NA	<30	<100	<12	<61	<2.3	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	<14	<68	<5.7	1,000	200
1,1 Dichloroethane	µg/l	<49	NA	<17	<100	<9.6	<48	<8.7	850	85
1,2 Dichloroethane	µg/l	<44	NA	<21	<100	<9.4	<47	<5.5	5	0.5
1,1 Dichloroethene	µg/l	<54	NA	<85	<100	<17	<85	<5.6	7	0.7
cis-1,2 Dichloroethene	µg/l	**610**	NA	**310**	**210**	**99**	**400**	**360**	70	7
trans-1,2 Dichloroethene	µg/l	<66	NA	<35	<100	<16	<79	<8.0	100	20
Diisopropyl ether	µg/l	--	--	--	--	<12	<60	<6.0	**	**
Ethylbenzene	µg/l	**2500**	NA	**1200**	**1700**	**520**	**1200**	**530**	700	140
Isopropylbenzene	µg/l	<37	NA	39	<500	35	<43	42	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	32	<57	<5.8	**	**
Methyl Tert Butyl Ether	µg/l	<29	NA	<20	<500	<13	<67	<8.7	60	12
Naphthalene	µg/l	**570**	NA	**280**	**510**	**310**	**380**	**160**	40	8
n-Propylbenzene	µg/l	260	NA	110	210	63	110	69	**	**
Tetrachloroethene	µg/l	<48	NA	<85	<100	<11	<57	<5.3	5	0.5
Toluene	µg/l	**9800**	NA	**8600**	**8100**	**2,600**	**7,500**	**1,600**	1,000	200
1,1,1 Trichloroethane	µg/l	<36	NA	<21	<100	<14	<69	<6.5	200	40
Trichloroethene	µg/l	**170**	NA	**230**	**420**	**590**	**220**	**300**	5	0.5
Trichlorofluoromethane	µg/l	<44	NA	<31	<100	<10	<52	<8.5	**	**
1,2,4 Trimethylbenzene	µg/l	2000	NA	1300	2700	1,400	1,400	600	**	**
1,3,5 Trimethylbenzene	µg/l	<38	NA	370	760	410	430	240	**	**
Trimethylbenzene (Total)	µg/l	**2000**	NA	**1670**	**3460**	**1,810**	**1,830**	**840**	480	96
Vinyl Chloride	µg/l	**780**	NA	**310**	<100	<3.6	**950**	**33**	0.2	0.02
Xylenes	µg/l	**9200**	NA	**6500**	**8900**	**2,570**	**4,100**	**1,600**	10,000	1000
Polycyclic Aromatic Hydrocarbons:										
Acenaphthene	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	NA	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	NA	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:										
Nitrate	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:										
Dissolved Oxygen	mg/L	0.1	NA	NA	0.016	NA	NA	NA	**	**
Redox	mV	-23.5	188.4	NA	-67.8	NA	NA	NA	**	**
pH	none	7.6	8.3	NA	7.0	NA	NA	NA	**	**
Conductivity	µS	1083	753	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0.4	1	NA	4.8	NA	NA	NA	**	**
Temperature	C	12	NA	NA	12.2	NA	NA	NA	**	**
Dissolved Gases:										
Carbon Dioxide	ng/l	NA	NA	NA	43000	67000	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	<10	2,000	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	<10	1,700	NA	NA	**	**
Methane	ng/l	NA	NA	NA	20	130	NA	NA	**	**

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Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-12				MW-13				Chapter NR 140	
		05/24/2001	08/22/2001	11/15/2001	05/09/2002	05/24/2001	08/22/2001	11/15/2001	05/09/2002	ES	PAL
Soluble Lead	µg/l	NA	FP	FP	NA	NA	FP	FP	FP	**	**
Volatile Organic Compounds											
Benzene	µg/l	**16000**	FP	FP	**4000**	**6200**	FP	FP	**2400**	5	0.5
n-Butylbenzene	µg/l	<70	FP	FP	120	<28	FP	FP	80	**	**
s-Butylbenzene	µg/l	--	FP	FP	<49	--	FP	FP	<24	**	**
Chloromethane	µg/l	<110	FP	FP	<62	<42	FP	FP	<31	3	0.3
Dibromochloromethane	µg/l	<700	FP	FP	<61	<280	FP	FP	<22	60	6
Dichlorodifluoromethane	µg/l	--	FP	FP	<68	--	FP	FP	<34	1,000	200
1,1 Dichloroethane	µg/l	<42	FP	FP	<48	<17	FP	FP	<24	850	85
1,2 Dichloroethane	µg/l	<52	FP	FP	<47	<21	FP	FP	<23	5	0.5
1,1 Dichloroethene	µg/l	<210	FP	FP	<85	<85	FP	FP	<42	7	0.7
cis-1,2 Dichloroethene	µg/l	**330**	FP	FP	**380**	**1100**	FP	FP	**200**	70	7
trans-1,2 Dichloroethene	µg/l	<87	FP	FP	<79	<35	FP	FP	<40	100	20
Diisopropyl ether	µg/l	--	FP	FP	<60	--	FP	FP	<30	**	**
Ethylbenzene	µg/l	**4100**	FP	FP	**2700**	**490**	FP	FP	**1400**	700	140
Isopropylbenzene	µg/l	190	FP	FP	99	22	FP	FP	56	**	**
p-Isopropyltoluene	µg/l	--	FP	FP	<57	--	FP	FP	<28	**	**
Methyl Tert Butyl Ether	µg/l	<50	FP	FP	<67	<20	FP	FP	<34	60	12
Naphthalene	µg/l	**1500**	FP	FP	**940**	**110**	FP	FP	**370**	40	8
n-Propylbenzene	µg/l	780	FP	FP	320	66	FP	FP	160	**	**
Tetrachloroethene	µg/l	<210	FP	FP	<57	<85	FP	FP	<28	5	0.5
Toluene	µg/l	**35000**	FP	FP	**12000**	**7400**	FP	FP	114	1,000	200
1,1,1 Trichloroethane	µg/l	<52	FP	FP	<69	<21	FP	FP	<34	200	40
Trichloroethene	µg/l	<80	FP	FP	<89	**370**	FP	FP	**250**	5	0.5
Trichlorofluoromethane	µg/l	<78	FP	FP	<52	<31	FP	FP	<26	**	**
1,2,4 Trimethylbenzene	µg/l	7900	FP	FP	3200	860	FP	FP	1600	**	**
1,3,5 Trimethylbenzene	µg/l	2300	FP	FP	830	260	FP	FP	430	**	**
Trimethylbenzene (Total)	µg/l	**10200**	FP	FP	**4030**	**1120**	FP	FP	**2030**	480	96
Vinyl Chloride	µg/l	**72**	FP	FP	**180**	**170**	FP	FP	<9.0	0.2	0.02
Xylenes	µg/l	**24200**	FP	FP	**8400**	**3470**	FP	FP	**4400**	10,000	1000
Polycyclic Aromatic Hydrocarbons:											
Acenaphthene	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	**	**
Anthracene	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	3000	600
Fluoranthene	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	400	80
Fluorene	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	400	80
1-Methylnaphthalene	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	**	**
2-Methylnaphthalene	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	**	**
Naphthalene	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	40	8
Phenanthrene	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	**	**
Pyrene	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	250	50
Nutrient Panel:											
Nitrate	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	**	**
Soluble Manganese	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	**	**
Sulfate	µg/l	NA	FP	FP	FP	FP	FP	FP	FP	**	**
In Situ Measurements:											
Dissolved Oxygen	mg/L	NA	0.016	FP	FP	NA	0.015	FP	FP	**	**
Redox	mV	NA	-70	FP	FP	NA	-37.4	FP	FP	**	**
pH	none	NA	7.0	FP	FP	NA	7.0	FP	FP	**	**
Conductivity	µS	NA	NA	FP	FP	NA	NA	FP	FP	**	**
Ferrous Iron	mg/L	NA	3	FP	FP	NA	1.6	FP	FP	**	**
Temperature	C	NA	12.3	FP	FP	NA	11.9	FP	FP	**	**
Dissolved Gases:											
Carbon Dioxide	ng/l	NA	FP	FP	FP	NA	FP	FP	FP	**	**
Ethane	ng/l	NA	FP	FP	FP	NA	FP	FP	FP	**	**
Ethylene	ng/l	NA	FP	FP	FP	NA	FP	FP	FP	**	**
Methane	ng/l	NA	FP	FP	FP	NA	FP	FP	FP	**	**

Key:

ES	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limits
**	= No Standard Established
--	= Reported below laboratory detection limits
NA	= Not Analyzed
mg/L	= Milligrams per liter
µg/L	= Micrograms per liter
ng/L	= Nanograms per liter
µS	= Microsiemens
mV	= Millivolts
C	= Celsius
FP	=Free Product (gasoline) measured, no sample collected

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-14									Chapter NR 140	
		07/16/1999	04/24/2000	11/14/2000	05/24/2001	08/22/2001	11/15/2001	02/21/2002	05/09/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds												
Benzene	µg/l	**2600**	**125**	**442**	**560**	**170**	**65**	**330**	**35**	**85**	5	0.5
n-Butylbenzene	µg/l	260	<1.5	<1.5	<2.8	31	<3.0	<20	<0.61	<0.65	**	**
s-Butylbenzene	µg/l	--	--	--	--	--	<2.4	<20	0.58	<0.62	**	**
Chloromethane	µg/l	--	--	--	<4.2	<20	<3.1	<20	<0.62	<0.27	3	0.3
Dibromochloromethane	µg/l	<17	<1.50	<1.5	<28	<20	<2.1	<20	<0.43	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	--	<3.4	<20	<0.68	<0.57	1,000	200
1,1 Dichloroethane	µg/l	<24	<1.50	<1.5	<1.7	<20	<2.4	<20	<0.48	<0.87	850	85
1,2 Dichloroethane	µg/l	<22	<1.50	<1.5	<2.1	<20	<2.3	<20	<0.47	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<27	<1.50	**1.52**	<8.5	<20	<4.2	<20	<0.85	**1.1**	7	0.7
cis-1,2 Dichloroethene	µg/l	**84**	**18.4**	**33.4**	**30**	<20	**10**	<20	**16**	**9.6**	70	7
trans-1,2 Dichloroethene	µg/l	<28	<1.50	<1.5	<3.5	<20	<4.0	<20	<0.79	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	--	--	<3.0	<20	<0.60	<0.60	**	**
Ethylbenzene	µg/l	**880**	6.88	65.6	120	**150**	<2.1	100	2.7	19	700	140
Isopropylbenzene	µg/l	<18	<1.50	5.95	5.4	<100	<2.1	<100	1.6	<0.66	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	--	<2.8	<20	<0.57	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<14	<3.0	<1.4	<2.0	<100	<3.4	<100	<0.67	<0.87	60	12
Naphthalene	µg/l	**190**	<8.0	**39.2**	**27**	**240**	<2.9	<100	<0.59	1.1	40	8
n-Propylbenzene	µg/l	140	<1.5	8.87	13	64	<3.2	20	0.72	2.7	**	**
Tetrachloroethene	µg/l	<24	<1.50	<1.5	<8.5	<20	<2.8	<20	<0.57	<0.63	5	0.5
Toluene	µg/l	**1600**	52.4	12.6	26	38	<2.3	270	0.56	5	1,000	200
1,1,1 Trichloroethane	µg/l	<18	<1.50	<1.5	<2.1	<20	<3.4	<20	<0.69	<0.65	200	40
Trichloroethene	µg/l	<22	**90.1**	**101**	**81**	**33**	**100**	**26**	**120**	**71**	5	0.5
Trichlorofluoromethane	µg/l	<22	<1.50	<1.5	<3.1	<20	<2.6	<20	<0.52	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	960	9.9	87.3	110	1100	4.5	200	6.1	18	**	**
1,3,5 Trimethylbenzene	µg/l	<19	5.77	38.2	46	310	3.5	72	3.9	2.7	**	**
Trimethylbenzene (Total)	µg/l	**960**	15.67	**125.5**	**156**	**1410**	8.0	**272**	10	20.7	480	96
Vinyl Chloride	µg/l	**38**	**17.7**	<1.2	<1.9	**24**	<0.90	<20	<0.18	**7.9**	0.2	0.02
Xylenes	µg/l	**2840**	36.1	73.36	126.5	860	<9.7	540	3.9	23.8	10,000	1000
Polycyclic Aromatic Hydrocarbons:												
Acenaphthene	µg/l	NA	NA	NA	NA	NA	NA	NA	N/A	NA	**	**
Anthracene	µg/l	NA	NA	NA	NA	NA	NA	N/A	N/A	NA	3000	600
Fluoranthene	µg/l	NA	NA	NA	NA	NA	NA	NA	N/A	NA	400	80
Fluorene	µg/l	NA	NA	NA	NA	NA	NA	NA	N/A	NA	400	80
1-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	N/A	NA	**	**
2-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	N/A	NA	**	**
Naphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	N/A	NA	40	8
Phenanthrene	µg/l	NA	NA	NA	NA	NA	NA	NA	N/A	NA	**	**
Pyrene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:												
Nitrate	µg/l	NA	<.3	NA	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	0.666	NA	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	13.8	NA	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:												
Dissolved Oxygen	mg/L	0.1	NA	NA	NA	0.017	NA	0.15	NA	NA	**	**
Redox	mV	-13.2	NA	NA	NA	-23.6	NA	61.4	NA	NA	**	**
pH	none	7.7	NA	NA	NA	7.0	NA	7.0	NA	NA	**	**
Conductivity	µS	938	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0.2	NA	NA	NA	5.4	NA	3.4	NA	NA	**	**
Temperature	C	11.8	NA	NA	NA	12.1	NA	12.6	NA	NA	**	**
Dissolved Gases:												
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**

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** = No Standard Established
-- = Reported below laboratory detection limits
NA = Not Analyzed
mg/L = Milligrams per liter
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mV = Millivolts
C = Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-15						Chapter NR 140	
		04/24/2000	11/14/2000	08/22/2001	11/15/2001	02/21/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds									
Benzene	µg/l	0.294	<0.15	<1.0	<0.48	<1.0	<0.25	5	0.5
n-Butylbenzene	µg/l	<0.15	<0.15	<1.0	<0.61	<1.0	<0.65	**	**
s-Butylbenzene	µg/l	--	--	--	<0.49	<1.0	<0.62	**	**
Chloromethane	µg/l	--	--	<1.0	<0.62	<1.0	<0.27	3	0.3
Dibromochloromethane	µg/l	<0.15	<0.15	<1.0	<0.43	<1.0	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	<0.68	<1.0	0.66	1,000	200
1,1 Dichloroethane	µg/l	<0.15	<0.15	<1.0	<0.48	<1.0	<0.87	850	85
1,2 Dichloroethane	µg/l	<0.15	<0.15	<1.0	<0.47	<1.0	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<0.15	<0.15	<1.0	<0.85	<1.0	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	<0.15	<0.15	<1.0	<0.73	<1.0	<0.81	70	7
trans-1,2 Dichloroethene	µg/l	<0.15	<0.15	<1.0	<0.79	<1.0	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	<0.60	<1.0	<0.60	**	**
Ethylbenzene	µg/l	1.07	<0.15	<1.0	<0.43	<1.0	<0.53	700	140
Isopropylbenzene	µg/l	0.189	<0.15	<5.0	<0.43	<5.0	<0.86	**	**
p-Isopropyltoluene	µg/l	--	--	--	<0.57	<1.0	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<0.3	<0.14	<5.0	<0.67	<5.0	<0.87	60	12
Naphthalene	µg/l	1.21	<1.0	<5.0	<0.59	<5.0	<0.63	40	8
n-Propylbenzene	µg/l	0.93	<0.15	<1.0	<0.64	<1.0	<0.95	**	**
Tetrachloroethene	µg/l	<0.15	<0.15	<1.0	<0.57	<1.0	<0.63	5	0.5
Toluene	µg/l	0.862	<0.4	<1.0	<0.47	<1.0	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<0.15	<0.15	<1.0	<0.69	<1.0	<0.65	200	40
Trichloroethene	µg/l	0.429	0.206	<1.0	<0.89	<1.0	<0.39	5	0.5
Trichlorofluoromethane	µg/l	<0.15	<0.15	<1.0	<0.52	<1.0	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	3.3	<0.4	<1.0	<0.51	<1.0	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	0.977	<0.15	<1.0	<0.52	<1.0	<0.64	**	**
Trimethylbenzene (Total)	µg/l	4.277	<0.55	<2.0	<1.03	<2.0	<1.33	480	96
Vinyl Chloride	µg/l	<0.11	<0.12	<1.0	<0.18	<1.0	<0.11	0.2	0.02
Xylenes	µg/l	3.57*	<0.55	<3.0	<1.94	<3.0	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:									
Acenaphthene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:									
Nitrate	µg/l	<0.3	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	0.533	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	41.4	NA	NA	NA	NA	NA	**	**
In Situ Measurements:									
Dissolved Oxygen	mg/L	0.2	NA	0.4	NA	0.66	NA	**	**
Redox	mV	266.1	NA	161.3	NA	142	NA	**	**
pH	none	7.7	NA	7.0	NA	7.0	NA	**	**
Conductivity	µS	894	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	NA	0	NA	0	NA	**	**
Temperature	C	10.5	NA	10.8	NA	11.4	NA	**	**
Dissolved Gases:									
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	**	**

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bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
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**	= No Standard Established
--	= Reported below laboratory detection limits
NA	= Not Analyzed
mg/L	= Milligrams per liter
µg/L	= Micrograms per liter
ng/L	= Nanograms per liter
µS	= Microsiemens
mV	= Millivolts
C	= Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-16						Chapter NR 140	
		04/24/2000	11/14/2000	08/22/2001	11/15/2001	02/21/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds									
Benzene	µg/l	<0.15	<0.15	<1.0	<0.48	<1.0	<0.25	5	0.5
n-Butylbenzene	µg/l	<0.15	<0.15	<1.0	<0.61	<1.0	<0.65	**	**
s-Butylbenzene	µg/l	--	--	--	<0.49	<1.0	<0.62	**	**
Chloromethane	µg/l	--	--	<1.0	<0.62	<1.0	<0.27	3	0.3
Dibromochloromethane	µg/l	<0.15	<0.15	<1.0	<0.43	<1.0	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	<0.68	<1.0	<0.57	1,000	200
1,1 Dichloroethane	µg/l	<0.15	<0.15	<1.0	<0.48	<1.0	<0.87	850	85
1,2 Dichloroethane	µg/l	<0.15	<0.15	<1.0	<0.47	<1.0	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<0.15	<0.15	<1.0	<0.85	<1.0	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	<0.15	<0.15	<1.0	<0.73	<1.0	<0.81	70	7
trans-1,2 Dichloroethene	µg/l	<0.15	<0.15	<1.0	<0.79	<1.0	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	<0.60	<1.0	<0.60	**	**
Ethylbenzene	µg/l	0.623	<0.15	<1.0	<0.43	<1.0	<0.53	700	140
Isopropylbenzene	µg/l	<0.15	<0.15	<5.0	<0.43	<5.0	<0.66	**	**
p-Isopropyltoluene	µg/l	--	--	--	<0.57	<1.0	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<0.3	<0.14	<5.0	<0.67	<5.0	<0.87	60	12
Naphthalene	µg/l	<0.80	<1.0	<5.0	<0.59	<5.0	<0.63	40	8
n-Propylbenzene	µg/l	<0.15	<0.15	<1.0	<0.64	<1.0	<0.95	**	**
Tetrachloroethene	µg/l	<0.15	<0.15	<1.0	<0.57	<1.0	<0.63	5	0.5
Toluene	µg/l	<0.40	<0.4	<1.0	<0.47	<1.0	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<0.15	<0.15	<1.0	<0.69	<1.0	<0.65	200	40
Trichloroethene	µg/l	<0.40	0.206	<1.0	<0.89	<1.0	<0.39	5	0.5
Trichlorofluoromethane	µg/l	<0.15	<0.15	<1.0	<0.52	<1.0	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	1.25	<0.4	<1.0	<0.51	<1.0	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	0.539	<0.15	<1.0	<0.52	<1.0	<0.64	**	**
Trimethylbenzene (Total)	µg/l	1.789	<0.55	<2.0	<1.03	<2.0	<1.33	480	96
Vinyl Chloride	µg/l	<0.11	<0.12	<1.0	<0.18	<1.0	<0.11	0.2	0.02
Xylenes	µg/l	1.044	<0.55	<3.0	<1.94	<3.0	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:									
Acenaphthene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:									
Nitrate	µg/l	<0.3	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	0.372	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	59.8	NA	NA	NA	NA	NA	**	**
In Situ Measurements:									
Dissolved Oxygen	mg/L	0.2	NA	0.3	NA	0.61	NA	**	**
Redox	mV	275.7	NA	68.8	NA	117.7	NA	**	**
pH	none	8.2	NA	7.0	NA	7.0	NA	**	**
Conductivity	µS	1065	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	NA	0	NA	0	NA	**	**
Temperature	C	11.8	NA	12.6	NA	12.9	NA	**	**
Dissolved Gases:									
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	**	**

Key:

ES	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limits
**	= No Standard Established
--	= Reported below laboratory detection limits
NA	= Not Analyzed
mg/L	= Milligrams per liter
µg/L	= Micrograms per liter
ng/L	= Nanograms per liter
µS	= Microsiemens
mV	= Millivolts
C	= Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-17						Chapter NR 140	
		01/10/2001	02/06/2001	08/22/2001	11/15/2001	02/21/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds									
Benzene	µg/l	<1.0	<1.0	<1.0	<0.48	<1.0	<0.25	5	0.5
n-Butylbenzene	µg/l	<1.0	<1.0	<1.0	<0.61	<1.0	<0.65	**	**
s-Butylbenzene	µg/l	--	--	--	<0.49	<1.0	<0.62	**	**
Chloromethane	µg/l	--	--	<1.0	<0.62	<1.0	<0.27	3	0.3
Dibromochloromethane	µg/l	<1.0	<1.0	<1.0	<0.43	<1.0	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	<0.68	<1.0	<0.57	1,000	200
1,1 Dichloroethane	µg/l	<1.0	<1.0	<1.0	<0.48	<1.0	<0.87	850	85
1,2 Dichloroethane	µg/l	<1.0	<1.0	<1.0	<0.47	<1.0	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<1.0	<1.0	<1.0	<0.85	<1.0	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	<1.0	<1.0	<1.0	<0.73	<1.0	<0.81	70	7
trans-1,2 Dichloroethene	µg/l	<1.0	<1.0	<1.0	<0.79	<1.0	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	<0.60	<1.0	<0.60	**	**
Ethylbenzene	µg/l	<1.0	<1.0	<1.0	<0.43	<1.0	<0.53	700	140
Isopropylbenzene	µg/l	<1.0	<1.0	<5.0	<0.43	<5.0	<0.66	**	**
p-Isopropyltoluene	µg/l	--	--	--	<0.57	<1.0	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<5.0	<5.0	<5.0	<0.67	<5.0	<0.87	60	12
Naphthalene	µg/l	<5.0	<5.0	<5.0	<0.59	<5.0	<0.63	40	8
n-Propylbenzene	µg/l	<1.0	<1.0	<1.0	<0.64	<1.0	<0.95	**	**
Tetrachloroethene	µg/l	<1.0	<1.0	<1.0	<0.57	<1.0	<0.63	5	0.5
Toluene	µg/l	<1.0	<1.0	<1.0	<0.47	<1.0	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<1.0	<1.0	<1.0	<0.69	<1.0	<0.65	200	40
Trichloroethene	µg/l	**36**	**39**	**31**	**12**	**8.7**	**14**	5	0.5
Trichlorofluoromethane	µg/l	<5.0	<5.0	<1.0	<0.52	<1.0	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	<1.0	<1.0	<1.0	<0.51	<1.0	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	<1.0	<1.0	<1.0	<0.52	<1.0	<0.64	**	**
Trimethylbenzene (Total)	µg/l	<2.0	<2.0	<2.0	<1.03	<2.0	<1.33	480	96
Vinyl Chloride	µg/l	<5.0	<5.0	<1.0	<0.18	<1.0	<0.11	0.2	0.02
Xylenes	µg/l	<3.0	<3.0	<3.0	<1.94	<3.0	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:									
Acenaphthene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:									
Nitrate	µg/l	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:									
Dissolved Oxygen	mg/L	1.57	1.13	0.37	NA	0.62	NA	**	**
Redox	mV	198.7	NA	154	NA	200.3	NA	**	**
pH	none	7.0	7.0	7.0	NA	7.0	NA	**	**
Conductivity	µS	NA	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	0	0	NA	0	NA	**	**
Temperature	C	12.3	11.4	11.2	NA	11.8	NA	**	**
Dissolved Gases:									
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	**	**

Key:

ES	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
bold	= Exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limits
**	= No Standard Established
--	= Reported below laboratory detection limits
NA	= Not Analyzed
mg/L	= Milligrams per liter
µg/L	= Micrograms per liter
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µS	= Microsiemens
mV	= Millivolts
C	= Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	MW-18						Chapter NR 140	
		03/21/2001	04/23/2001	08/22/2001	11/15/2001	02/21/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds									
Benzene	µg/l	<5.0	<1.0	<1.0	<0.48	<1.0	<0.25	5	0.5
n-Butylbenzene	µg/l	<5.0	<1.0	<1.0	<0.61	<1.0	<0.65	**	**
s-Butylbenzene	µg/l	--	--	--	<0.49	<1.0	<0.62	**	**
Chloromethane	µg/l	**95**	<1.0	<1.0	<0.62	<1.0	<0.27	3	0.3
Dibromochloromethane	µg/l	<5.0	<1.0	<1.0	<0.43	<1.0	<0.23	60	6
Dichlorodifluoromethane	µg/l	--	--	--	<0.68	<1.0	<0.57	1,000	200
1,1 Dichloroethane	µg/l	<5.0	<1.0	<1.0	<0.48	<1.0	<0.87	850	85
1,2 Dichloroethane	µg/l	<5.0	<1.0	<1.0	<0.47	<1.0	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<5.0	<1.0	<1.0	<0.85	<1.0	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	<5.0	<1.0	<1.0	<0.73	<1.0	<0.81	70	7
trans-1,2 Dichloroethene	µg/l	<5.0	<1.0	<1.0	<0.79	<1.0	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	<0.60	<1.0	<0.60	**	**
Ethylbenzene	µg/l	<5.0	<1.0	<1.0	<0.43	<1.0	<0.53	700	140
Isopropylbenzene	µg/l	<5.0	<1.0	<5.0	<0.43	<5.0	<0.66	**	**
p-Isopropyltoluene	µg/l	--	--	--	<0.57	<1.0	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<25	<5.0	<5.0	<0.67	<5.0	<0.87	60	12
Naphthalene	µg/l	<25	<5.0	<5.0	<0.59	<5.0	<0.63	40	8
n-Propylbenzene	µg/l	<5.0	<1.0	<1.0	<0.64	<1.0	<0.95	**	**
Tetrachloroethene	µg/l	<5.0	<1.0	<1.0	<0.57	<1.0	<0.63	5	0.5
Toluene	µg/l	<5.0	<1.0	<1.0	<0.47	<1.0	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<5.0	<1.0	<1.0	<0.69	<1.0	<0.65	200	40
Trichloroethene	µg/l	<5.0	<1.0	<1.0	<0.89	<1.0	<0.39	5	0.5
Trichlorofluoromethane	µg/l	<25	<1.0	<1.0	<0.52	<1.0	<0.85	**	**
1,2,4 Trimethylbenzene	µg/l	<5.0	<1.0	<1.0	<0.51	<1.0	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	<5.0	<1.0	<1.0	<0.52	<1.0	<0.64	**	**
Trimethylbenzene (Total)	µg/l	<10	<2.0	<2.0	<1.03	<2.0	<1.33	480	96
Vinyl Chloride	µg/l	<25	<1.0	<1.0	<0.18	<1.0	<0.11	0.2	0.02
Xylenes	µg/l	<15	<3.0	<3.0	<1.94	<3.0	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:									
Acenaphthene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:									
Nitrate	µg/l	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:									
Dissolved Oxygen	mg/L	2.45	4.07	0.82	NA	0.71	NA	**	**
Redox	mV	NA	NA	134	NA	137.9	NA	**	**
pH	none	6.5	NA	7.0	NA	7.0	NA	**	**
Conductivity	µS	NA	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0.6	NA	0	NA	0	NA	**	**
Temperature	C	9.8	11	12.3	NA	11.6	NA	**	**
Dissolved Gases:									
Carbon Dioxide	ng/l	NA	NA	25000	60000	59 mg/l	NA	**	**
Ethane	ng/l	NA	NA	<10	36	<5.0	NA	**	**
Ethylene	ng/l	NA	NA	<10	<5.0	<5.0	NA	**	**
Methane	ng/l	NA	NA	<10	0.36	220	NA	**	**

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mg/L = Milligrams per liter
µg/L = Micrograms per liter
ng/L = Nanograms per liter
µS = Microsiemens
mV = Millivolts
C = Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	PZ-1							Chapter NR 140	
		04/24/2000	11/14/2000	05/24/2001	08/22/2001	11/15/2001	02/21/2002	11/13/2002	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds										
Benzene	µg/l	0.189	0.256	<0.29	<1.0	<0.48	<1.0	<0.25	5	0.5
n-Butylbenzene	µg/l	0.713	<0.15	<0.28	<1.0	<0.61	<1.0	<0.65	**	**
s-Butylbenzene	µg/l	--	--	--	--	<0.49	<1.0	<0.62	**	**
Chloromethane	µg/l	--	--	<0.42	<1.0	<0.62	<1.0	<0.27	3	0.3
Dibromochloromethane	µg/l	<0.15	<0.15	<2.8	<1.0	<0.61	<1.0	NA	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	<0.68	<1.0	<0.57	1,000	200
1,1 Dichloroethane	µg/l	<0.15	<0.15	<0.17	<1.0	<0.48	<1.0	<0.87	850	85
1,2 Dichloroethane	µg/l	<0.15	<0.15	<0.21	<1.0	<0.47	<1.0	<0.55	5	0.5
1,1 Dichloroethene	µg/l	<0.15	<0.15	<0.85	<1.0	<0.85	<1.0	<0.56	7	0.7
cis-1,2 Dichloroethene	µg/l	<0.15	<0.15	<0.27	<1.0	<0.73	<1.0	<0.81	70	7
trans-1,2 Dichloroethene	µg/l	<0.15	<0.15	<0.35	<1.0	<0.79	<1.0	<0.80	100	20
Diisopropyl ether	µg/l	--	--	--	--	<0.60	<1.0	<0.60	**	**
Ethylbenzene	µg/l	0.687	<0.15	<0.57	<1.0	<0.43	<1.0	<0.53	700	140
Isopropylbenzene	µg/l	<0.15	<0.15	<0.19	<5.0	<0.43	<5.0	<0.66	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	<0.57	NA	<0.58	**	**
Methyl Tert Butyl Ether	µg/l	<0.3	<0.14	<0.20	<5.0	<0.67	<5.0	<0.87	60	12
Naphthalene	µg/l	<0.80	<1.0	<0.27	<5.0	<0.59	<5.0	<0.63	40	8
n-Propylbenzene	µg/l	<0.15	<0.15	<0.17	<1.0	<0.64	<1.0	<0.95	**	**
Tetrachloroethene	µg/l	<0.15	<0.15	<0.85	<1.0	<0.57	<1.0	<0.63	5	0.5
Toluene	µg/l	<0.40	<0.4	<0.13	<1.0	<0.47	<1.0	<0.84	1,000	200
1,1,1 Trichloroethane	µg/l	<0.15	<0.15	<0.21	<1.0	<0.69	<1.0	<0.65	200	40
Trichloroethene	µg/l	<0.4	0.206	<0.32	<1.0	<0.89	<1.0	<0.39	5	0.5
Trichlorofluoromethane	µg/l	<0.15	<0.15	<0.31	<1.0	<0.52	<1.0	NA	**	**
1,2,4 Trimethylbenzene	µg/l	1.08	<0.4	<0.34	<1.0	<0.51	<1.0	<0.69	**	**
1,3,5 Trimethylbenzene	µg/l	0.327	<0.15	<0.29	<1.0	<0.52	<1.0	<0.64	**	**
Trimethylbenzene (Total)	µg/l	1.407	<0.55	<0.63	<2.0	<1.03	<2.0	<1.33	480	96
Vinyl Chloride	µg/l	<0.11	<0.12	<0.19	<1.0	<0.18	<1.0	<0.11	0.2	0.02
Xylenes	µg/l	1.1	<0.55	<0.63	<3.0	<1.94	<3.0	<1.83	10,000	1000
Polycyclic Aromatic Hydrocarbons:										
Acenaphthene	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	NA	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	NA	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	NA	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:										
Nitrate	µg/l	<0.3	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	0.153	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	82.6	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:										
Dissolved Oxygen	mg/L	0.3	NA	NA	0.45	NA	0.65	NA	**	**
Redox	mV	271	NA	NA	162	NA	136.2	NA	**	**
pH	none	7.8	NA	NA	7.0	NA	7.0	NA	**	**
Conductivity	µS	701	NA	NA	NA	NA	NA	NA	**	**
Ferrous Iron	mg/L	0	NA	NA	0	NA	1	NA	**	**
Temperature	C	10.6	NA	NA	11.3	NA	11.1	NA	**	**
Dissolved Gases:										
Carbon Dioxide	ng/l	NA	NA	NA	20000	23000	18 mg/l	NA	**	**
Ethane	ng/l	NA	NA	NA	<10	88	38	NA	**	**
Ethylene	ng/l	NA	NA	NA	<10	20	<5.0	NA	**	**
Methane	ng/l	NA	NA	NA	<10	0.48	390	NA	**	**

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mV = Millivolts
C = Celsius

Table 3
Groundwater Quality Results - BTEX and Detects Only
Mercury Marine Plant 6
Oshkosh, Wisconsin

ANALYTE	Date	Sump 1			Sump 2			Sump 3			Chapter NR 140	
		08/25/1998	01/13/1999	04/24/2000	08/25/1998	01/13/1999	04/24/2000	08/25/1998	01/13/1999	04/24/2000	ES	PAL
Soluble Lead	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Volatile Organic Compounds												
Benzene	µg/l	<0.31	<0.31	<.15	<0.31	<0.31	<.15	<0.31	**5.1**	NA	5	0.5
n-Butylbenzene	µg/l	<0.35	<0.35	NA	<0.35	<0.35	NA	<0.35	<0.35	NA	**	**
s-Butylbenzene	µg/l	--	--	--	--	--	--	--	--	--	**	**
Chloromethane	µg/l	--	--	--	--	--	--	--	--	--	3	0.3
Dibromochloromethane	µg/l	<0.38	<0.34	NA	<0.38	<0.34	NA	<0.38	<0.34	NA	60	6
Dichlorodifluoromethane	µg/l	--	--	--	--	--	--	--	--	--	1,000	200
1,1 Dichloroethane	µg/l	<0.49	<0.49	NA	<0.49	<0.49	NA	<0.49	<0.49	NA	850	85
1,2 Dichloroethane	µg/l	<0.44	<0.44	NA	<0.44	<0.44	NA	<0.44	<0.44	NA	5	0.5
1,1 Dichloroethene	µg/l	<0.54	<0.54	NA	<0.54	<0.54	NA	<0.54	<0.54	NA	7	0.7
cis-1,2 Dichloroethene	µg/l	<0.39	<0.39	NA	<0.39	<0.39	NA	<0.39	0.95	NA	70	7
trans-1,2 Dichloroethene	µg/l	<0.56	<0.56	NA	<0.56	<0.56	NA	<0.56	<0.56	NA	100	20
Diisopropyl ether	µg/l	--	--	--	--	--	--	--	--	--	**	**
Ethylbenzene	µg/l	<0.35	<0.35	<.5	<0.35	<0.35	<.5	<0.35	<0.35	NA	700	140
Isopropylbenzene	µg/l	<0.37	<0.37	NA	<0.37	<0.37	NA	<0.37	<0.37	NA	**	**
p-Isopropyltoluene	µg/l	--	--	--	--	--	--	--	--	--	**	**
Methyl Tert Butyl Ether	µg/l	<0.29	<0.29	<.3	1.7	<0.29	<.3	<0.29	<0.29	NA	60	12
Naphthalene	µg/l	<0.72	<0.72	NA	<0.72	<0.72	NA	<0.72	<0.72	NA	40	8
n-Propylbenzene	µg/l	<0.39	<0.39	NA	<0.39	<0.39	NA	<0.39	<0.39	NA	**	**
Tetrachloroethene	µg/l	<0.48	<0.48	NA	<0.48	<0.48	NA	**1.9**	**4.2**	NA	5	0.5
Toluene	µg/l	<0.32	<0.32	<.4	<0.32	<0.32	<.4	<0.32	0.66	NA	1,000	200
1,1,1 Trichloroethane	µg/l	<0.36	<0.36	NA	<0.36	<0.36	NA	<0.36	<0.36	NA	200	40
Trichloroethene	µg/l	<0.44	<0.44	NA	<0.44	<0.44	NA	<0.44	**1**	NA	5	0.5
Trichlorofluoromethane	µg/l	<0.44	<0.44	NA	<0.44	<0.44	NA	<0.44	<0.44	NA	**	**
1,2,4 Trimethylbenzene	µg/l	<0.36	<0.36	<.4	<0.36	<0.36	<.4	<0.36	<0.36	NA	**	**
1,3,5 Trimethylbenzene	µg/l	<0.38	<0.38	<.15	<0.38	<0.38	<.15	<0.38	<0.38	NA	**	**
Trimethylbenzene (Total)	µg/l	<0.38	<0.38	<.55	<0.38	<0.38	<.55	<0.38	<0.38	NA	480	96
Vinyl Chloride	µg/l	<0.63	<0.63	NA	<0.63	<0.63	NA	<0.63	<0.63	NA	0.2	0.02
Xylenes	µg/l	<0.36	<0.73	<.55	<0.36	<0.73	<.55	<0.36	3.5	NA	10,000	1000
Polycyclic Aromatic Hydrocarbons:												
Acenaphthene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Anthracene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	3000	600
Fluoranthene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Fluorene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
1-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
2-Methylnaphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Naphthalene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	8
Phenanthrene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Pyrene	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	50
Nutrient Panel:												
Nitrate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Soluble Manganese	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Sulfate	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
In Situ Measurements:												
Dissolved Oxygen	mg/L	NA	NA	9.5	NA	NA	9.7	NA	NA	NA	**	**
Redox	mV	NA	NA	196	NA	NA	204.3	NA	NA	NA	**	**
pH	none	NA	NA	7.4	NA	NA	7.4	NA	NA	NA	**	**
Conductivity	µS	NA	NA	842	NA	NA	816	NA	NA	NA	**	**
Ferrous Iron	mg/L	NA	NA	0	NA	NA	0	NA	NA	NA	**	**
Temperature	C	NA	NA	10.7	NA	NA	10.2	NA	NA	NA	**	**
Dissolved Gases:												
Carbon Dioxide	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Ethylene	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**
Methane	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**

Key:

ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
bold = Exceeds Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
bold = Exceeds Wisconsin Administrative Code Chapter NR 140 Preventive Action Limits
** = No Standard Established
-- = Reported below laboratory detection limits
NA = Not Analyzed
mg/L = Milligrams per liter
µg/L = Micrograms per liter
ng/L = Nanograms per liter
µS = Microsiemens
mV = Millivolts
C = Celsius

Table 1
Groundwater Elevations
Mercury Marine Plant 6
Oshkosh, Wisconsin

Monitoring Well	Elevation of Ground Surface	Elevation of Top of Casing	Depth to Product from Top of Casing	Product Thickness (feet)	Depth to Groundwater from Top of Casing	Corrected Depth to Groundwater from Top of Casing	Groundwater Elevation	Amount of Product Removed (gallons)	Date
MW-1	768.36	768.07			19.08	20.08	747.99		07/09/1998
					20.49	20.49	747.58		08/25/1998
					20.93	20.93	747.14		11/10/1998
					20.86	20.86	747.21		12/28/1998
					18.21	18.21	749.86		07/16/1999
					20.49	20.49	747.58		04/24/2000
					19.24	19.24	748.83		11/14/2000
					16.67	16.67	751.40		05/24/2001
					19.70	19.70	748.37		08/22/2001
					20.63	20.63	747.44		11/15/2001
					17.52	17.52	750.55		05/09/2002
					20.25	20.25	747.82		11/13/2002
					20.82	20.82	747.25		02/21/2002
MW-2**	768.02	767.57			18.70		748.87		07/09/98*
					21.64		745.93		08/25/98*
			20.04	1.90	21.94	20.57	747.00		11/10/1998
			20.09	1.79	21.88	20.59	746.98	3.00	12/22/1998
			19.99	1.76	21.75	20.48	747.09		12/28/1998
			20.13	1.61	21.74	20.58	746.99	1.50	01/07/1999
			20.29	2.12	22.41	20.88	746.69	1.25	01/20/1999
			20.27	2.03	22.3	20.84	746.73	1.00	01/25/1999
			20.09	2.01	22.1	20.65	746.92	1.00	02/03/1999
			20.02	1.58	21.6	20.46	747.11	1.00	02/09/1999
					17.76	17.76	749.81		07/12/1999
					17.85	17.85	749.72	0.00	07/16/1999
					17.91	17.91	749.66	1.00	08/06/1999
			18.85	0.10	18.95	18.88	748.69	0.00	09/08/1999
			19.51	1.65	21.16	19.97	747.60	0.25	10/12/1999
			19.96	1.03	20.99	20.25	747.32	1.00	04/17/2000
					16.05	16.05	751.52		05/24/2001
					19.05	19.05	748.52		08/22/2001
			19.98	1.00	20.98	20.98	746.59	0.00	11/15/2001
MW-3	768.35	767.84			18.97	18.97	748.87		07/09/1998
					20.35	20.35	747.49		08/25/1998
					20.75	20.75	747.09		11/10/1998
					20.69	20.69	747.15		12/28/1998
					18.02	18.02	749.82		07/16/1999
					20.34	20.34	747.50		04/24/2000
					19.12	19.12	748.72		11/14/2000
					16.60	16.60	751.24		05/24/2001
					19.60	19.60	748.24		08/22/2001
					20.47	20.47	747.37		11/15/2001
					16.82	16.82	751.02		05/09/2002
					20.01	20.01	747.83		11/13/2002
					20.65	20.65	747.19		02/21/2002
MW-4	768.96	771.17			22.08	22.08	749.09		07/09/1998
					23.52	23.52	747.65		08/25/1998
					23.95	23.95	747.22		11/10/1998
					23.93	23.93	747.24		12/28/1998
					21.22	21.22	749.95		07/16/1999
					23.48	23.48	747.69		04/24/2000
					22.23	22.23	748.94		11/14/2000
					19.60	19.60	751.57		05/24/2001
					22.71	22.71	748.46		08/22/2001
					23.64	23.64	747.53		11/15/2001
					20.98	20.98	750.19		05/09/2002
					23.27	23.27	747.90		11/13/2002
					23.83	23.83	747.34		02/21/2002
MW-5	766.9	766.4			17.67	17.67	748.73		07/09/1998
					19.04	19.04	747.36		08/25/1998
					19.35	19.35	747.05		11/10/1998
					19.28	19.28	747.12		12/28/1998
					16.81	16.81	749.59		07/16/1999
					18.90	18.90	747.50		04/24/2000
					17.78	17.78	748.62		11/14/2000
					15.39	15.39	751.01		05/24/2001
					18.33	18.33	748.07		08/22/2001
					19.17	19.17	747.23		11/15/2001
					16.08	16.08	750.32		05/09/2002
					18.77	18.77	747.63		11/13/2002
					19.26	19.26	747.14		02/21/2002

Elevations taken relative to mean sea level.
* - Elevations do not account for free-phase product in well.
** Groundwater elevations reported for MW-2 account for product thickness.

Table 1
Groundwater Elevations
Mercury Marine Plant 6
Oshkosh, Wisconsin

Monitoring Well	Elevation of Ground Surface	Elevation of Top of Casing	Depth to Product from Top of Casing	Product Thickness (feet)	Depth to Groundwater from Top of Casing	Corrected Depth to Groundwater from Top of Casing	Groundwater Elevation	Amount of Product Removed (gallons)	Date
MW-6	767.13	769.83			19.11	19.11	750.72		07/09/1998
					15.12	15.12	754.71		08/25/1998
					15.09	15.09	754.74		11/10/1998
					15.63	15.63	754.20		12/28/1998
					11.10	11.10	758.73		07/16/1999
					11.61	11.61	758.22		04/24/2000
					11.83	11.83	758.00		11/14/2000
					9.61	9.61	760.22		05/24/2001
					14.64	14.64	755.19		08/22/2001
					14.10	14.10	755.73		11/15/2001
					8.84	8.84	760.99		05/09/2002
					12.95	12.95	756.88		11/13/2002
					12.38	12.38	757.45		02/21/2002
MW-7	767.29	769.73			22.68	22.68	747.05		12/28/1998
					20.23	20.23	749.50		07/16/1999
					22.27	22.27	747.46		04/24/2000
					21.18	21.18	748.55		11/14/2000
					21.72	21.72	748.01		08/22/2001
					22.90	22.90	746.83		11/15/2001
					NA	NA	NA		05/09/2002
					12.18	12.18	757.55		11/13/2002
					22.65	22.65	747.08		02/21/2002
MW-8	768.71	770.95			23.68	23.68	747.27		12/28/1998
					20.88	20.88	750.07		07/16/1999
					23.30	23.30	747.65		04/24/2000
					21.97	21.97	748.98		11/14/2000
					22.27	22.27	748.68		08/22/2001
					23.34	23.34	747.61		11/15/2001
					NA	NA	NA		05/09/2002
					23.01	23.01	747.94		11/13/2002
					23.60	23.60	747.35		02/21/2002
MW-9	768.91	771.38			22.62	22.62	748.76		12/28/1998
					9.10	9.10	762.28		07/16/1999
					9.72	9.72	761.66		04/24/2000
					10.81	10.81	760.57		11/14/2000
					10.34	10.34	761.04		08/22/2001
					14.25	14.25	757.13		11/15/2001
					NA	NA	NA		05/09/2002
					12.46	12.46	758.92		11/13/2002
					7.84	7.84	763.54		02/21/2002
MW-10	768.61	771.09			23.77	23.77	747.32		12/28/1998
					21.02	21.02	750.07		07/16/1999
					23.33	23.33	747.76		04/24/2000
					22.04	22.04	749.05		11/14/2000
					22.49	22.49	748.60		08/22/2001
					23.48	23.48	747.61		11/15/2001
					NA	NA	NA		05/09/2002
					23.10	23.10	747.99		11/13/2002
					23.68	23.68	747.41		02/21/2002

Elevations taken relative to mean sea level.
* - Elevations do not account for free-phase product in well.
** Groundwater elevations reported for MW-2 account for product thickness.

Table 1 (continued)
Groundwater Elevations
Mercury Marine Plant 6
Oshkosh, Wisconsin

Monitoring Well	Elevation of Ground Surface	Elevation of Top of Casing	Depth ot Product from Top of Casing	Product Thickness (feet)	Depth to Groundwater from Top of Casing	Corrected Depth to Groundwater from Top of Casing	Groundwater Elevation	Amount of Product Removed (gallons)	Date
MW-11	768.17	767.78			17.95	17.95	749.83		07/12/1999
					18.03	18.03	749.75		07/16/1999
					18.08	18.08	749.70		08/06/1999
			19.02	0.18	19.20	19.07	748.71	0.00	09/08/1999
			19.9	0.39	20.29	20.01	747.77	0.00	10/12/1999
			20.28	0.14	20.42	20.32	747.46	0.25	04/17/2000
					16.13	16.13	751.65		05/24/2001
					19.17	19.17	748.61		08/22/2001
					16.90	16.90	750.88		05/09/2002
					19.64	19.64	748.14		11/13/2002
					20.02	20.02	747.76		11/15/2001
MW-12 **	768.05	767.19	17.34	0.14	17.48	17.38	749.81	0.00	07/12/1999
					17.81	17.81	749.38		07/16/1999
					17.84	17.84	749.35		08/06/1999
			18.25	1.23	19.48	18.59	748.60	0.00	09/08/1999
			19.16	1.46	20.62	19.57	747.62	0.25	10/12/1999
			19.53	1.16	20.69	19.85	747.34	1.00	04/17/2000
					16.02	16.02	751.17		05/24/2001
					19.05	19.05	748.14		08/22/2001
					16.78	16.78	750.41		05/09/2002
					20.02	20.02	747.17		11/13/2002
			20.39	0.5	20.89	20.53	746.66	0.00	11/15/2001
MW-13**	767.69	767.32			17.54	17.54	749.78		07/12/1999
					17.73	17.73	749.59		07/16/1999
					17.98	17.98	749.34		08/06/1999
			18.47	0.91	19.38	18.72	748.60	0.00	09/08/1999
			19.67	1.22	20.89	20.01	747.31	0.75	04/17/2000
					15.75	15.75	751.57		05/24/2001
					19.08	19.08	748.24		08/22/2001
			19.59	0.90	20.49	19.84	747.48	0.00	11/15/2001
					16.49	16.49	750.83		05/09/2002
					19.80	19.80	747.52		11/13/2002
			19.44	1.22	20.66	19.78	747.54	0.00	02/21/2002
MW-14	768.38	767.96			18.13	18.13	749.83		07/12/1999
					18.21	18.21	749.75		07/16/1999
					18.28	18.28	749.68		08/06/1999
					20.40	20.40	747.56		04/24/2000
					19.25	19.25	748.71		11/14/2000
					16.78	16.78	751.18		05/24/2001
					19.75	19.75	748.21		08/22/2001
					20.63	20.63	747.33		11/15/2001
					17.53	17.53	750.43		05/09/2002
					20.25	20.25	747.71		11/13/2002
					21.73	21.73	746.23		02/21/2002
MW-15	768.36	770.85			23.31	23.31	747.54		04/24/2000
					21.98	21.98	748.87		11/14/2000
					22.33	22.33	748.52		08/22/2001
					23.33	23.33	747.52		11/15/2001
					NA	NA	NA		05/09/2002
					22.98	22.98	747.87		11/13/2002
					23.60	23.60	747.25		02/21/2002

Elevations taken relative to mean sea level.
* - Elevations do not account for free-phase product in well.
** Groundwater elevations reported for MW-12 and MW-13 account for product thickness, when detected.

Table 1 (continued)
Groundwater Elevations
Mercury Marine Plant 6
Oshkosh, Wisconsin

Monitoring Well	Elevation of Ground Surface	Elevation of Top of Casing	Depth ot Product from Top of Casing	Product Thickness (feet)	Depth to Groundwater from Top of Casing	Corrected Depth to Groundwater from Top of Casing	Groundwater Elevation	Amount of Product Removed (gallons)	Date
MW-16	767.05	766.54			19.06	19.06	747.48		04/24/2000
					17.93	17.93	748.61		11/14/2000
					18.84	18.84	747.70		08/22/2001
					19.30	19.30	747.24		11/15/2001
					NA	NA	NA		05/09/2002
					18.92	18.92	747.62		11/13/2002
					19.40	19.40	747.14		02/21/2002
MW-17	768	770.68			22.06	22.06	748.62		01/10/2001
					22.07	22.07	748.61		02/06/2001
					22.42	22.42	748.26		08/22/2001
					23.32	23.32	747.36		11/15/2001
					NA	NA	NA		05/09/2002
					22.95	22.95	747.73		11/13/2002
					23.49	23.49	747.19		02/21/2002
MW-18	766.81	770.24			20.65	20.65	749.59		03/21/2001
					18.85	18.85	751.39		04/23/2001
					21.91	21.91	748.33		08/22/2001
					22.88	22.88	747.36		11/15/2001
					NA	NA	NA		05/09/2002
					22.48	22.48	747.76		11/13/2002
					23.06	23.06	747.18		02/21/2002
PZ-1	768.53	770.88			23.29	23.29	747.59		04/24/2000
					22.02	22.02	748.86		11/14/2000
					19.39	19.39	751.49		05/24/2001
					22.40	22.40	748.48		08/22/2001
					23.37	23.37	747.51		11/15/2001
					NA	NA	NA		05/09/2002
					23.01	23.01	747.87		11/13/2002
					23.60	23.60	747.28		02/21/2002
S-1	NS	NS			1.29	1.29	NS		04/24/2000
S-2	NS	NS			1.45	1.45	NS		04/24/2000

Elevations taken relative to mean sea level.
* - Elevations do not account for free-phase product in well.
** Groundwater elevations reported for MW-12 and MW-13 account for product thickness, when detected.

GIS REGISTRY
Cover Sheet

July, 2008
(RR 5367)

Source Property Information

CLOSURE DATE: Mar 24, 2009

BRRTS #: **03-71-182214**

FID #: 471031110

ACTIVITY NAME: Mercury Marine Plant 6 - Petroleum

DATCP #:

PROPERTY ADDRESS: 1018 Murdock Ave

COMM #:

MUNICIPALITY: Oshkosh, WI 54901

PARCEL ID #: 1218770000

***WTM COORDINATES:**

X: **636179** Y: **397316**

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

WTM COORDINATES REPRESENT:

- (●) Approximate Center Of Contaminant Source
- ( ) Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- [x] Groundwater Contamination > ES *(236)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  *(**note:** for list of off-source properties see "Impacted Off-Source Property")*

- [x] Soil Contamination > *RCL or **SSRCL *(232)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  *(**note:** for list of off-source properties see "Impacted Off-Source Property")*

Land Use Controls:

- [ ] Soil: maintain industrial zoning *(220)*

  *(**note:** soil contamination concentrations between residential 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 or economic development corporation)*

Monitoring wells properly abandoned? *(234)*

(●) Yes ( ) No ( ) N/A

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

GIS Registry Checklist

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 #: 03-71-182214 PARCEL ID #: 1218770000

ACTIVITY NAME: Mercury Marine Plant 6 - Petroleum WTM COORDINATES: X: 636179 Y: 397316

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

- [x] **Closure Letter**
- [ ] **Maintenance Plan** (*if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.*)
- [x] **Conditional Closure Letter**
- [x] **Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

- [x] **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.*
- [x] **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:**
- [x] **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 8.5 x 14 inches unless the map is submitted electronically.

- [x] **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 **Title: Site Location Map**
- [x] **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 Plan Map**
- [x] **Soil Contamination Contour Map:** For sites closing with residual soil contamination, <u>this map is to show the location of all contaminated soil and a single contour</u> 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 #: 4 **Title: Existing Soil Contamination > RCL**

BRRTS #: 03-71-182214 ACTIVITY NAME: Mercury Marine Plant 6 - Petroleum

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 #: 4 **Title: Geologic Cross Sections A-A'**

Figure #: 5 **Title: Geologic Cross Sections B-B'**

☒ **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 #: 6 **Title: Groundwater Quality Map**

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

Figure #: 7 **Title: Groundwater Contour Map**

Figure #: **Title:**

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

Tables must be no larger than 8.5 x 14 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 #: 1 **Title: Soil Quality Results- Detections Only**

☒ **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 #: 2 **Title: Groundwater Quality Results- BTEX and Detects only**

☒ **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 #: 3 **Title: Groundwater Elevations**

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 #: 03-71-182214 ACTIVITY NAME: Mercury Marine Plant 6 - Petroleum

NOTIFICATIONS

Source Property

- ☐ **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.

- ☐ **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

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Wisconsin Department of Natural Resources
Oshkosh Service Center
625 E CTY Y, Suite 700
Oshkosh, Wisconsin 54901
Telephone 920-424-3050
FAX 920-424-4404

March 24, 2009

Tom Baumgartner
Director, Environmental Compliance
Mercury Marine
W6250 Pioneer Road
Fond du Lac WI 54936-1939

SUBJECT: Final Case Closure with Land Use Limitations or Conditions
Mercury Marine Plant 6-Petroleum
WDNR BRRTS #: 03-71-182214

Dear Mr. Baumgartner:

On January 23, 2009, the Northeast Region Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On February 4, 2009, you were notified that the Closure Committee had granted conditional closure to this case.

On March 23, 2009 the Department received correspondence indicating that you have complied with the requirements of closure. Conditions of closure included the abandonment of all monitoring wells and disposal of any remaining investigative waste.

Based on the correspondence and data provided, it appears that your case meets the requirements of ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

GIS Registry

The conditions of case closure set out below in this letter require that your site be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- Groundwater contamination is present above Chapter NR 140 enforcement standards

Information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm. If your property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior

Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://dnr.wi.gov/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

Closure Conditions

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. It is the Department's intent to conduct inspections in the future to ensure that the conditions included in this letter including compliance with referenced maintenance plans are met.

Remaining Residual Soil Contamination

Residual soil contamination remains at GP1, GP2,GP3, GP4, GP6, MW1, MW2, MW4, MW8, MW9, MW11, MW12, and MW13 as indicated in the information submitted to the Department of Natural Resources. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Remaining Residual Groundwater Contamination

Groundwater impacted by petroleum contamination greater than enforcement standards set forth in ch. NR140, Wis. Adm. Code, is present on the contaminated property For more detailed information regarding the locations where groundwater samples have been collected (i.e., monitoring well locations) and the associated contaminant concentrations, refer to the Remediation and Redevelopment Program's GIS Registry at the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm.

Residual Free Product

Free Product has been historically present at this site and may, under certain conditions, be observed in the future. If observed action should be taken to remove the free product and dispose of it appropriately.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Kevin D. McKnight at 920-424-7890.

Sincerely,

Kevin D. McKnight
Hydrogeologist
Remediation & Redevelopment Program

cc: file
Sigma- via email
Craig Dousharm-via email

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Wisconsin Department of Natural Resources
Oshkosh Service Center
625 E CTY Y, Suite 700
Oshkosh, Wisconsin 54901
Telephone 920-424-3050
FAX 920-424-4404

February 4, 2009

FILE COPY

Tom Baumgartner
Director, Environmental Compliance
Mercury Marine
W6250 Pioneer Road
Fond du Lac WI 54936-1939

Subject: Conditional Closure Decision,
With Requirements to Achieve Final Closure
Mercury Marine Plant 6-Petroleum
WDNR BRRTS #: 03-71-182214

Dear Mr. Baumgartner:

On January 23, 2009, the Northeast Region Closure Committee reviewed your request for closure of the case described above. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the petroleum contamination on the site from the former underground storage tank system appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

MONITORING WELL ABANDONMENT

The monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to Kevin McKnight on Form 3300-005 found at http://dnr.wi.gov/org/water/dwg/gw/ or provided by the Department of Natural Resources.

PURGE WATER, WASTE AND SOIL PILE REMOVAL

Any remaining purge water, waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with Department of Natural Resources' rules. Once that work is completed, please send appropriate documentation regarding the treatment or disposal of the remaining purge water, waste and/or soil piles.

GIS PACKET REQUIRED

A soil and groundwater GIS registry packet needs to be completed and submitted to the Department.

When the above conditions have been satisfied, please submit the appropriate documentation (for example, well abandonment forms, disposal receipts, copies of correspondence, etc.) to verify that applicable conditions have been met, and your case will be closed. 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 GIS Registry. To review the site on the GIS Registry web page, visit the RR Sites Map page at: http://dnr.wi.gov/org/aw/rr/gis/index.htm.

Section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

Please be aware that the 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 to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 920-424-7890.

Sincerely,

Kevin D. McKnight
Hydrogeologist
Remediation & Redevelopment Program

cc: file
Tom Verstegen-via email
craig_dousharm@mercmarine.com
mkrueger@thesigmagroup.com

RE: Mercury Marine
1018 W. Murdock Avenue
Oshkosh, WI 54901

LEGAL DESCRIPTION

Lots Three (3), Four (4), Five (5), Six (6), Seven (7), Eight (8), Nine (9), Twelve (12), Thirteen (13) and Fourteen (14) of Block Six (6) AND Lots Three (3), Four (4), Seven (7) and Eight (8) of Block Seven (7) in EICHSTADT SUBDIVISION, in the Twelfth Ward, City of Oshkosh, Winnebago County, Wisconsin.

A parcel of land lying in the South West ¼ of the SOUTH EAST ¼ of Section Eleven (11), Township Eighteen (18) North of Range Sixteen (16) East, in the Twelfth Ward, City of Oshkosh, Winnebago County, Wisconsin, being described as the South One Hundred Ninety (190) feet lying North of Murdock Avenue, East of vacated Cedar Street and West of Beech Street.

AND, the South Two Hundred Eighty-five (285) feet of vacated Cedar Street lying North of Murdock Avenue, being located in the South East ¼ of Section Eleven (11), Township Eighteen (18) North of Range Sixteen (16) East, in the Twelfth Ward, City of Oshkosh, Winnebago County, Wisconsin.

EXCEPTING THEREFROM THE FOLLOWING TWO (2) DESCRIBED PARCELS:

1) The North Fifty-five (55) feet of Lots Three (3) and Twelve (12) of Block Six (6) and that portion of the West ½ of vacated Cedar Street lying East of and within the extended Northerly and Southerly boundary lines of said North Fifty-five (55) feet of Lot Twelve (12) of Block Six (6), all being located in EICHSTADT SUBDIVISION, in the Twelfth Ward, City of Oshkosh, Winnebago County, Wisconsin.

2) The North Fifty-five (55) feet of Lots Three (3) and Seven (7) of Block Seven (7) and that portion of the East ½ of vacated Cedar Street lying West of and within the extended Northerly and Southerly boundary lines of said North Fifty-five (55) feet of Lot Three (3) of Block Seven (7), all being located in EICHSTADT SUBDIVISION, in the Twelfth Ward, City of Oshkosh, Winnebago County, Wisconsin.

TAX KEY NO. 912-1877

WARRANTY DEED

KIEKHAEFER CORPORATION, a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located in the County of Fond du Lac, State of Wisconsin, Grantor, hereby conveys and warrants to KIEKHAEFER CORPORATION, a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, and duly qualified to do business in the State of Wisconsin, located in the County of Fond du Lac, State of Wisconsin, Grantee, for the sum of $10.00 and other good and valuable consideration, the following tracts of land in Winnebago County, Wisconsin:

Lot 10 of Block "D" in the Plat of the WESTERN ADDITION to Oshkosh, in the 1st Ward, City of Oshkosh; excepting therefrom that portion conveyed to the Oshkosh City Railroad Company, as described in Volume 86 on page 193, Winnebago County Registry.

Lot 11, of Block "D" in Plat of the WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh, excepting therefrom that portion heretofore conveyed to the Oshkosh City Railroad Company by Deed recorded in Volume 86 on page 193, Winnebago County Registry.

Lot 12 of Block "D" in PLAT OF THE WESTERN ADDITION to Oshkosh, in the First Ward, City of Oshkosh.

Lots eight (8) and nine (9) of Block "D" in PLAT OF WESTERN ADDITION to City of Oshkosh, in the First Ward, City of Oshkosh.

Lots 3, 4, 5, 6, 7, 8, 9, 12, 13 and 14, of Block 6, and Lots 3 and 7 of Block 7, all in PLAT OF EICHSTADT SUBDIVISION, in the Town of Oshkosh.

A piece of land lying in the Southeast One-Quarter (SE 1/4) of Section Eleven (11), Town Eighteen North (T.18N.), Range Sixteen East (R.16E.), Town of Oshkosh, Winnebago County, State of Wisconsin, described as follows: Starting at an iron pin in the center of the concrete highway on Murdock Street at the intersection with Elmwood Avenue, Spruce Street, and Vinland Street Road; thence Easterly on center line of Murdock Street, six-hundred seventeen and fifty-two hundredths feet (617.52') to a point five tenths feet (.5') east of the East line of Cedar Street extended;

thence North at right angles thirty feet (30') to the North line of Murdock Street which is the point of beginning; thence two hundred thirty-seven and sixty-two hundredths feet (237.62') along the North line of Murdock Street to a point five feet (5') west of the West line of Beech Street extended; thence North at right angles one hundred ninety feet (190'); thence West at right angles two hundred thirty-seven and sixty-two hundredths feet (237.62'); thence South at right angles one-hundred ninety feet (190') to the point of beginning; being of an area of one and three hundredths acres (1.03acres) more or less, and:

Lots four (4) and eight (8), Block seven (7), Eichstadt Subdivision.

This conveyance is made subject to:

1. A quitclaim conveyance of a twelve (12) foot wide strip to the Oshkosh City Railroad Company recorded in Volume 86, page 193, Winnebago County Registry.
2. Protective restrictions dated September 29, 1947 as amended by document dated February 27, 1952, which include a reservation of easement over portions of the lots for utilities. See Plat of Subdivision and documents No. 151110 and No. 191589 recorded in Winnebago County.
3. Setback line established in deed from Harold J. Eichstadt and Marcella M. Eichstadt, his wife, to Kiekhaefer Corporation dated April 28, 1956 and recorded November 2, 1956 as Document No. 239647.
4. Restrictions contained in deed recorded June 19, 1947 in Volume 559, page 313 of Deeds, document No. 146586 in Winnebago County and purported amendments thereto contained in deed dated June 18, 1952 and recorded as document No. 153539 in said County.
5. Suit commenced in the Circuit Court of Winnebago County, State of Wisconsin by Harold J. Eichstadt and Marcella M. Eichstadt, his wife, vs. Kiekhaefer Corporation, et al., Case No. 28309 involving the enforcement of the above-mentioned protective restrictions relating to the Plat of Eichstadts Subdivision.
6. Indenture of Mortgage dated December 1, 1956, made by Kiekhaefer Corporation to Marshall & Ilsley Bank, as trustee, recorded January 17, 1957, as Document No. 241516.
7. Property taxes, general and special, for 1961 and subsequent years.
8. All applicable zoning and building laws and ordinances and all other governmental restrictions and regulations as may be imposed by or under any laws or ordinances or any governmental body or officer.

IN WITNESS WHEREOF, the said Grantor, acting pursuant to the authorization of its Board of Directors and Stockholders, has caused this deed to be signed by E. C. Kiekhaefer, its President, and countersigned by Robert C. Anderegg, its Secretary, and its corporate seal to be hereunto affixed this 29th day of September, 1961.

KIEKHAEFER CORPORATION,
a Wisconsin corporation

By: E. C. Kiekhaefer
President
E. C. Kiekhaefer

Countersigned
By: Robert C. Anderegg
Secretary
Robert C. Anderegg

Signed and sealed in the presence of:

John G. Cavanaugh

Emory S. Naylor, Jr.

This instrument was drafted by Thomas F. Finch.

STATE OF Illinois
COUNTY OF Cook } SS.

On this the 29th day of September, 1961, before me, Gertrude Ludwig, the undersigned officer, personally appeared E. C. Kiekhaefer and Robert C. Anderegg who acknowledged themselves to be, respectively, the President and Secretary of KIEKHAEFER CORPORATION, a Wisconsin corporation, and that they as such President and Secretary, respectively, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by themselves as President and Secretary, respectively.

Gertrude Ludwig
Notary Public
Gertrude Ludwig

My commission expires: May 24, 1964

292223

FIDELITY TITLE

Kiekhaefer Corp
to
Kiekhaefer Corp

Register's Office
Winnebago County, Wis.
Received for record this 2
day of Oct A.D. 1961
at 1:41 o'clock P.M. and
recorded in Vol 990 of RECORDS
on page 54
Register of Deeds

BRUNSWICK CORPORATION
623 SOUTH WABASH AVENUE
CHICAGO 5, ILLINOIS

FEDERAL DOCUMENTARY STAMPS WILL BE AFFIXED TO THIS DEED AFTER RECORDATION.

QUIT CLAIM DEED

THIS INDENTURE, made by KIEKHAEFER CORPORATION, a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located in the County of Fond du Lac, State of Wisconsin, Grantor, hereby Quit Claims to KIEKHAEFER CORPORATION, a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, and duly qualified to do business in the State of Wisconsin, located in the County of Fond du Lac, State of Wisconsin, Grantee, for the sum of $10.00 and other good and valuable consideration, the following tract of land in Winnebago County, Wisconsin:

A parcel of land in Winnebago County, Wisconsin, described as follows: That land comprising the vacated portion of Cedar Street extending 265 feet North from the North line of Murdock Street as shown in the Plat of Eichstadt Subdivision in the Town of Oshkosh.

IN WITNESS WHEREOF, the said Grantor acting pursuant to the authorization of its Board of Directors and stockholders has caused this Deed to be signed on its behalf by E. C. Kiekhaefer, its President, and countersigned by Robert C. Anderegg, its Secretary, and its corporate seal to be hereunto affixed this 29th day of September, 1961.

KIEKHAEFER CORPORATION,
a Wisconsin corporation

(CORPORATE SEAL)

By E. C. Kiekhaefer
President
E. C. Kiekhaefer

Countersigned
By Robert C. Anderegg
Secretary
Robert C. Anderegg

Signed and sealed in
the presence of:

John W. Cavanaugh

Thomas F. Finch

VOL. 990 PAGE 56

This instrument was drafted by Thomas F. Finch.

STATE OF Illinois
COUNTY OF Cook } SS.

On this 29th day of September, 1961, before me, Gertrude Ludwig, the undersigned officer, personally appeared E. C. Kiekhaefer and Robert C. Anderegg who acknowledged themselves to be, respectively, the President and Secretary of Kiekhaefer Corporation, a Wisconsin corporation, and that they as such President and Secretary, respectively, being authorized to do so, executed the foregoing instrument for the purpose therein contained by signing the name of the corporation by themselves as President and Secretary, respectively.

Gertrude Ludwig, Notary Public
Gertrude Ludwig

My Commission Expires:
May 4, 1964

292224

Kiekhaefer Corp.
Kiekhaefer Corp.

Register's Office
Winnebago County, Wis.
Received for record this 5
day of Oct. A.D. 1961
at 2:00 o'clock P.M. and
recorded in Vol. 990 of RECORDS
on Page 56
Rowena K. Tuttle
Register of Deeds

BRUNSWICK CORPORATION
623 SOUTH WABASH AVENUE
CHICAGO 5, ILLINOIS

FEDERAL DOCUMENTARY STAMPS WILL BE AFFIXED TO THIS DEED AFTER RECORDATION.

DOCUMENT NO.

VOL. 864 PAGE 385

This Indenture, Made by DR. CLARENCE S. GONSTEAD and ALVIRA GONSTEAD, husband and wife, grantors of Dane County, Wisconsin, hereby conveys and warrants to KIEKHAEFER CORPORATION, a Wisconsin Corporation, grantee of Ozaukee County, Wisconsin, for the sum of One Dollar and other valuable consideration - the following tract of land in Winnebago County, State of Wisconsin:

A piece of land lying in the Southeast One-Quarter (SE¼) of Section Eleven (11), Town Eighteen North (T.18N.), Range Sixteen East (R.16 E.), Town of Oshkosh, Winnebago County, State of Wisconsin, described as follows:

Starting at an iron pin in the center of the concrete highway on Murdock Street at the intersection with Elmwood Avenue, Spruce Street, and Vinland Street Road; thence Easterly on center line of Murdock Street, six-hundred seventeen and fifty-two hundredths feet (617.52') to a point five tenths feet (.5') east of the East line of Cedar Street extended; thence North at right angles thirty feet (30') to the North line of Murdock Street which is the point of beginning; thence two hundred thirty-seven and sixty-two hundredths feet (237.62') along the North line of Murdock Street to a point five feet (5') west of the West line of Beech Street extended; thence North at right angles one hundred ninety feet (190'); thence West at right angles two hundred thirty-seven and sixty-two hundredths feet (237.62'); thence South at right angles one-hundred ninety feet (190') to the point of beginning; being of an area of one and three hundredths acres (1.03 acres) more or less.

and

Lots four (4) and eight (8), Block seven (7), Eichstadt Subdivision.

Together with all rights appurtenant thereto and the Easterly one-half of vacated Cedar Street abutting the above-described lands.

The conveyance of the above described lands is subject to all legal covenants, restrictions and easements of record and is made pursuant to a certain Lease and Agreement between the parties hereto recorded in the Register of Deeds office for said County July 17, 1952, in Vol. 679 of Deeds, page 635.

The lands above described have been purportedly annexed to the City of Oshkosh, Wisconsin; such annexation being now the subject of litigation.

(This instrument was drafted by Darel E. Simon)

IN WITNESS WHEREOF, the said grantors have hereunto set their hands and seals this 22nd day of April, A. D., 19 58

SIGNED AND SEALED IN PRESENCE OF

Warren E. Kuehling
Warren E. Kuehling

Hazel Borstad
Hazel Borstad

Dr. Clarence S. Gonstead (SEAL)
Dr. Clarence S. Gonstead

Alvira Gonstead (SEAL)
Alvira Gonstead

(SEAL)

(SEAL)

STATE OF WISCONSIN,
Dane County, } ss.

Personally came before me, this 22nd day of April, A. D., 1958 the above named Dr. Clarence S. Gonstead and Alvira Gonstead, husband and wife, to me known to be the persons who executed the foregoing instrument and acknowledged the same.

Received for Record this day of A. D., 19 at o'clock M.

(SEAL)

Warren E. Kuehling
Notary Public Warren E. Kuehling
Dane County, Wis.
My commission expires Aug 3 A. D., 19 58

Register of Deeds,

Deputy Register of Deeds.

WARRANTY DEED—STATE OF WISCONSIN, FORM NO. 9

NO. 254219

Dr. Clarence Gonstead

TO

Kiekhaefer Corp.

WARRANTY DEED

REGISTER'S OFFICE,
STATE OF WISCONSIN,
WINNEBAGO County.

Received for Record this 30th day of April A. D., 19 38 at 3:02 o'clock P M., and recorded in Vol. 864 of Deeds on Page 385

Bernice L. Fuller
Register of Deeds.

Deputy.

RETURN TO
HARRY H. SCHMITT ABSTRACT CO.

chg
1.50

VOL 864 PAGE 386

WARRANTY DEED

STATE OF WISCONSIN — FORM No. 9

Section 237.16 Wisconsin Statutes

VOL 831 PAGE 585

This Indenture,

Made by Harold J. Eichstadt and Marcella M. Eichstadt, his wife,

grantor s, of Winnebago County, Wisconsin, hereby conveys and warrants to Kiekhaefer Corporation, a Wisconsin corporation, with principal place of business at Cedarburg, Wisconsin,

grantee, of Ozaukee County, Wisconsin, for the sum of One Dollar ($1.00) and other valuable consideration- - - - - Dollars, the following tract of land in Winnebago County, State of Wisconsin:

Lots Three (3), Four (4), Five (5), Six (6), Seven (7), Eight (8), Nine (9), Twelve (12), Thirteen (13) and Fourteen (14) of Block Six (6) and Lots Three (3) and Seven (7) of Block Seven (7), PLAT OF EICHSTADT SUBDIVISION, Town of Oshkosh, together with that land comprising the vacated portion of Cedar Street extending 265 Feet North from the North line of Murdock Street, Town of Oshkosh.

Subject, however, to the condition that in the event said Lots 5 and 6 of Block 6 aforesaid are used by Grantee, its successors or assigns for factory, manufacturing or laboratory purposes, said Grantee, its successors or assigns shall not build within 15 feet of the West line of said Lots 5 and 6 of Block 6, such setback building line of 15 feet being hereby established.

This deed given subject to protective covenants recorded November 29, 1947, in Volume 556, at page 599, et seq. and following, Document No. 151110, and amendments to protective covenants recorded in Volume 679, page 269, Document No. 191589, Winnebago County Registry.

In Witness Whereof, the said grantor s have hereunto set their hands and seals this 28th day of April, A. D., 19 56

SIGNED AND SEALED IN PRESENCE OF

Harry E. Meyer Jr.
Harry E. Meyer, Jr.

Frances Bartel
Frances Bartel

Harold J. Eichstadt (SEAL)
Harold J. Eichstadt

Marcella M. Eichstadt (SEAL)
Marcella M. Eichstadt

(SEAL)

(SEAL)

State of Wisconsin,
Winnebago County. } ss.

Personally came before me, this 28th day of April, A. D., 19 56

the above named Harold J. Eichstadt and Marcella M. Eichstadt, his wife,

to be known to be the persons who executed the foregoing instrument and acknowledged the same.

Harry E. Meyer Jr.
Harry E. Meyer, Jr.
Notary Public, Winnebago County, Wis.
My commission expires February 16, A. D., 19 58

(Section 59.51 (1) of the Wisconsin Statutes provides that all instruments to be recorded shall have plainly printed or typewritten thereon the names of the grantors, grantees, witnesses and notary)

No. 239647

Harold J. Eichstadt and
Marcella M. Eichstadt, his wife,
TO
Kiekhaefer Corporation, a
Wisconsin corporation,

Premises See description on
reverse side.

Warranty Deed

This Instrument should be immediately placed upon record to avoid future trouble and litigation.

REGISTER'S OFFICE,
State of Wisconsin,
WINNEBAGO County, }

Received for Record this 2nd day of November, A.D. 1956, at 8:06 o'clock A.M., and recorded in Vol. 831 of Deeds on page 583.

Bernice L. Fuller
Register of Deeds

Deputy.

EDGARTON LAW OFFICES
509 EMPIRE BUILDING
FOND DU LAC, WISCONSIN

Paid $1.50

239647

VOL 831 PAGE 586

(Continued)

HIGHWAY ORDER

Pursuant to Resolution duly adopted by the Town Board of the Town of Oshkosh, Winnebago County, Wisconsin, at a meeting of said Board duly noticed and held pursuant to such notice on March 8, 1956, at the Town Hall in the Town of Oshkosh, Winnebago County, Wisconsin:

IT IS HEREBY ORDERED by the Town Board of Supervisors, Town of Oshkosh, Winnebago County, Wisconsin, that that portion of Cedar Street in the PLAT OF EICHSTADT SUBDIVISION, in the Town of Oshkosh, Winnebago County, Wisconsin, extending 265 feet North from the North line of Murdock Street, on which the following described lands abut:

> Lots Nine (9), Thirteen (13) and Fourteen (14) of Block Six (6) and Lot Four (4) of Block Seven (7), PLAT OF EICHSTADT SUBDIVISION, Town of Oshkosh, Winnebago County, Wisconsin.
>
> Commencing at the intersection of the North line of Murdock Street with the East line of Cedar Street, the point of beginning, thence North along the East line of Cedar Street 190 Feet; thence East parallel with the North line of Murdock Street 237.6 Feet to the West line of Beech Street, thence South along the West line of Beech Street 190 Feet to the intersection of said East line with the North line of Murdock Street, thence West along the North line of Murdock Street 237.6 Feet to the place of beginning, being part of the Southeast 1/4, Section 11-18-16, Town of Oshkosh, Winnebago County, Wisconsin,

is hereby authorized and directed to be and is hereby discontinued.

That this order is granted as the Town Board deems the issuance of such order best for the public good, and is given pursuant to authorization and procedure contained in Chapter 80 of the Wisconsin Statutes, in such case made and provided.

Dated this 8th day of March, 1956.

TOWN BOARD OF SUPERVISORS
TOWN OF OSHKOSH
WINNEBAGO COUNTY, WISCONSIN.

By: Art Rickman
Chairman

Guy Grundy
Supervisor

Forrest Williams
Supervisor

Register of Deeds
Winnebago County, Wis.
Received for record
March 22 1956
at 10:00 A.M. and recorded
in Vol. 14 of Misc. Records
on page 22
Register of Deeds

0315535

STATE OF WISCONSIN)

COUNTY OF WINNEBAGO) SS

CITY OF OSHKOSH)

I, Donna C. Serwas, Clerk for the City of Oshkosh, Winnebago County, Wisconsin, do hereby certify that the annexed resolution is a true and correct copy of the original on file in my office, adopted by the Common Council of the City of Oshkosh, Wisconsin, at a regular meeting held on September 4, 19 86.

Witness my hand and the Corporation seal of the City of Oshkosh, Wisconsin, this 9th day of September, 19 86.

Donna C. Serwas

City Clerk of the City of Oshkosh
Winnebago County, Wisconsin

SEPTEMBER 4, 1986 # 260 RESOLUTION

(CARRIED_____LOST_____LAID OVER_____WITHDRAWN_____)

PURPOSE: FINAL RESOLUTION VACATING PORTION OF COLUMBIA AVENUE & CEDAR STREET

INITIATED BY: HAROLD EICHSTADT & MERCURY MARINE

PLAN COMMISSION RECOMMENDATION: Approved 8-0

WHEREAS, pursuant to Section 66.296(2) of Wisconsin Statutes, the Common Council has heretofore initiated proceedings on July 17, 1986 at a regular meeting of the Common Council to vacate and discontinue the following described portion of Columbia Avenue and Cedar Street:

COLUMBIA AVENUE
That portion of Columbia Avenue lying east of the easterly right-of-way line of Walnut Street and west of the westerly right-of-way line of Beech Street, 12th Ward, City of Oshkosh, Winnebago County, Wisconsin.

CEDAR STREET
That portion of Cedar Street extending 225 feet from the south right-of-way line of Columbia Avenue, 12th Ward, City of Oshkosh, Winnebago County, Wisconsin.

WHEREAS, a public hearing on the passage of such resolution has been set by the Common Council, which hearing was set for 7:00 PM in the Council Chambers of the City Hall, Oshkosh, Wisconsin, on the 4th day of September, 1986, and written notice of such meeting was duly served on the owners of all of the frontage of the lots and lands abutting upon that portion thereof sought to be discontinued as provided by law; and

WHEREAS, a public hearing was duly held pursuant to said notice at the time and place therefore affixed and all persons so served and interested were then and there given an opportunity to be heard; and

WHEREAS, a proper notice of the pendency of said petition for vacation and discontinuance and map covering the proposed vacation was duly filed in the Office of the Register of Deeds for Winnebago County, as required by the Wisconsin Statutes; and

WHEREAS, the lots and lands abutting on said street affected by this resolution are all in the 12th Ward, City of Oshkosh, the description of said street heretofore set out in this Resolution.

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Oshkosh that it is hereby declared that since public interest requires it, the following described street in the 12th Ward, City of Oshkosh, Winnebago County, Wisconsin, is hereby vacated and discontinued, reserving unto the City of Oshkosh the right to maintain, service, repair, add or replace all sanitary sewer, storm sewer, water and gas mains and fittings in said vacated street:

COLUMBIA AVENUE
That portion of Columbia Avenue lying east of the easterly right-of-way line of Walnut Street and west of the westerly right-of-way line of Beech Street, 12th Ward, City of Oshkosh, Winnebago County, Wisconsin.

CEDAR STREET
That portion of Cedar Street extending 225 feet from the south right-of-way line of Columbia Avenue, 12th Ward, City of Oshkosh, Winnebago County, Wisconsin.

BE IT FURTHER RESOLVED that the City Clerk record a certified copy of this Resolution accompanied with a map showing the location of said vacated street in the Office of the Register of Deeds for Winnebago County.

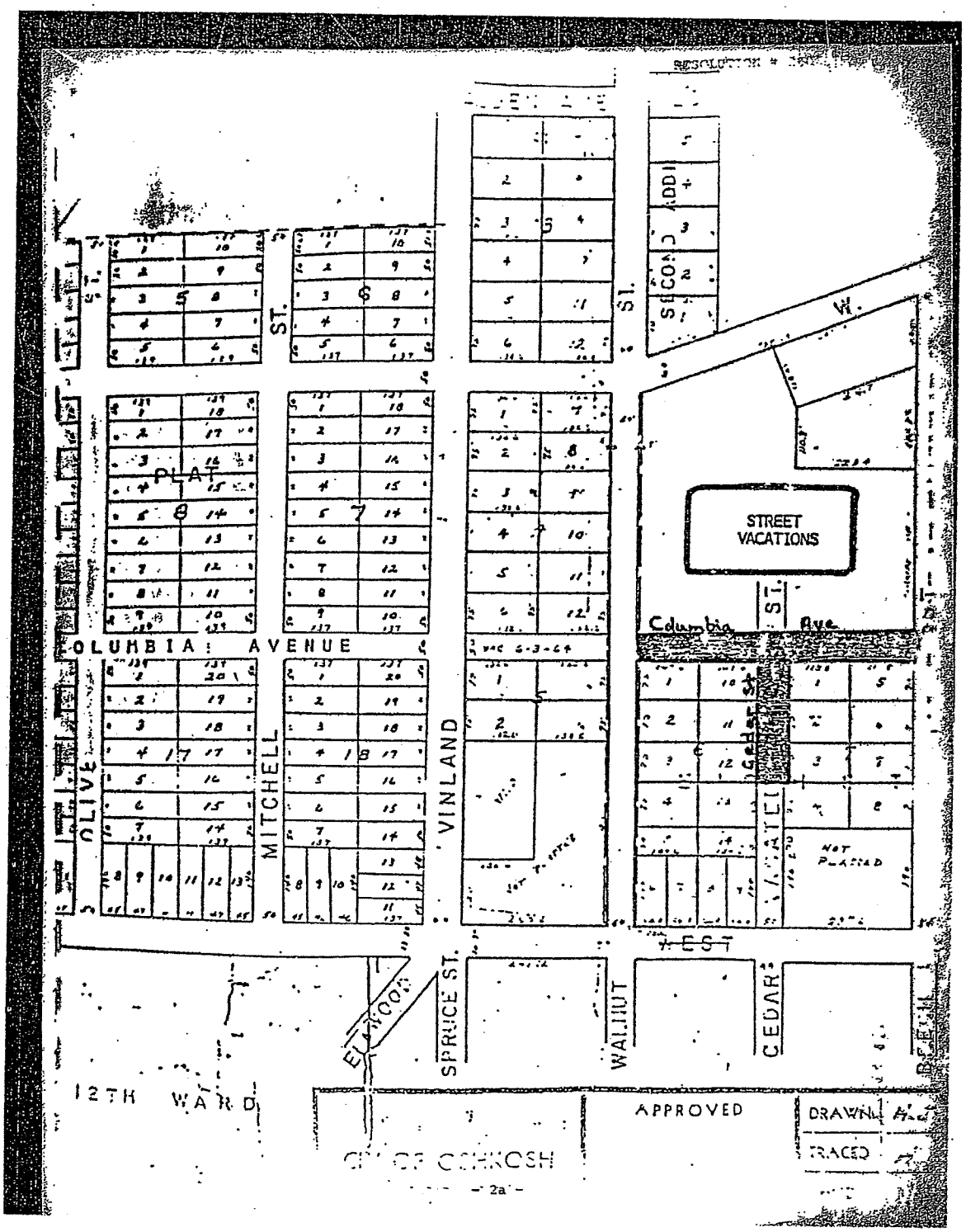
661612 11/11

FILE

Register's Office
Winnebago County, Wis.
Received for record this 10th
day of Sept. A.D., 1986
at 8:40 o'clock A M. and
recorded in Vol. 154-C of R.P.
on page 10.
Marjorie Dahms
Register of Deeds

Oshkosh C. Clerk

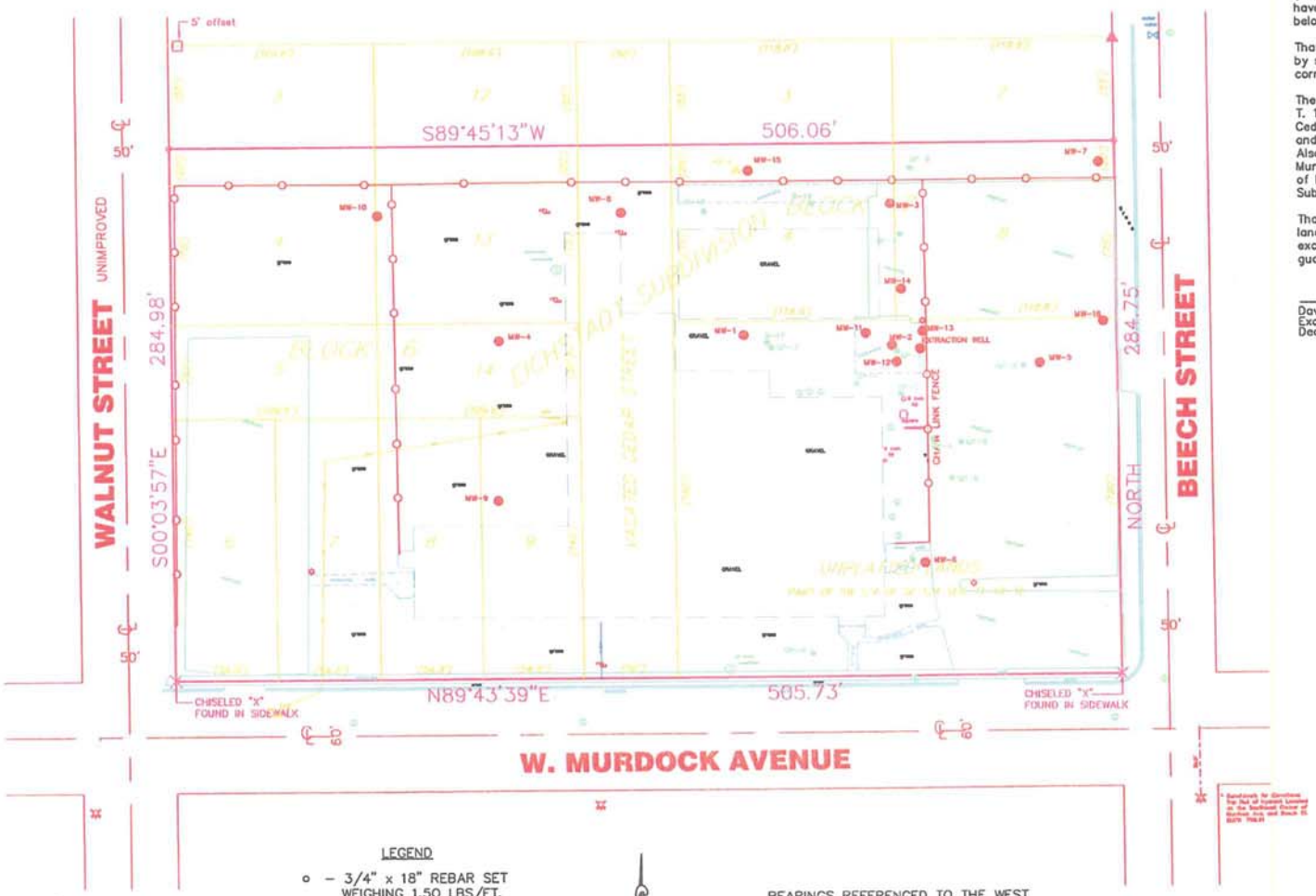
Ubg 10


STREET VACATIONS
COLUMBIA AVENUE
Columbia Ave.
OLIVE
MITCHELL
VINLAND
ST.
SECOND ADDI
PLAT
NOT PLATTED
WEST
ELMWOOD
SPRUCE ST.
WALNUT
CEDAR
12TH WARD
APPROVED
DRAWN
TRACED
CITY OF OSHKOSH
2a

MERCURY

PLANT 6 - 1018 W. MURDOCK AVE. - OSHKOSH, WI.

144,111 sq.ft. - 3.30 acres



LEGEND

o – 3/4" x 18" REBAR SET WEIGHING 1.50 LBS/FT.

▲ – 1" IRON PIPE FOUND IN PLACE.

□ – 1.5" REBAR FOUND.

(75')– PLAT DISTANCE

BEARINGS REFERENCED TO THE WEST RIGHT-OF-WAY LINE OF BEECH STREET, ASSUMED NORTH.

1" = 1

2 0 3 4

SCALE FEET

PROPERTY SURVEY FOR:

MERCURY MARINE

SURVEYOR'S CERTIFICATE

I, David H. Jacob, Registered Land Surveyor, hereby certify that on this date I have completed a survey for Mercury Marine of a parcel of land described below.

That I have marked the corners or boundaries of said parcel on the ground by setting iron stakes as shown on the map and that the following is the correct description as surveyed and staked out.

The South 190 feet of the Southwest 1/4 of the Southeast 1/4 of Section 11, T. 18 N.–R. 16 E. lying North of West Murdock Avenue, East of vacated Cedar Street and West of Beech Street. Also Lots 3, 4, 5, 6, 7, 8, 9, 12, 13, and 14 of Block 6 and Lots 3, 4, 7 and 8 of Block 7 of Eichstadt Subdivision. Also, the South 285 feet of vacated Cedar Street lying North of West Murdock Avenue. EXCEPTING therefrom the North 55 feet of Lots 3 and 12 of Block 6 and the North 55 feet of Lots 3 and 7 of Block 7 of Eichstadt Subdivision. All lying in the City of Oshkosh, Winnebago County, Wisconsin.

That such survey is a correct representation of all the exterior boundaries of land surveyed and principal buildings thereon. This survey is made for the exclusive use of the owners and those who purchase, mortgage, or guarantee title thereto, within one year from the date hereon.

David H. Jacob, RLS
Excel Engineering, Inc.
December 30, 2004.

PROJECT NO. 409540

EXCEL ENGINEERING INC.
100 CAMELOT DRIVE
FOND DU LAC, WI 54935
PH: (920) 926-9800
FAX: (920) 926-9801

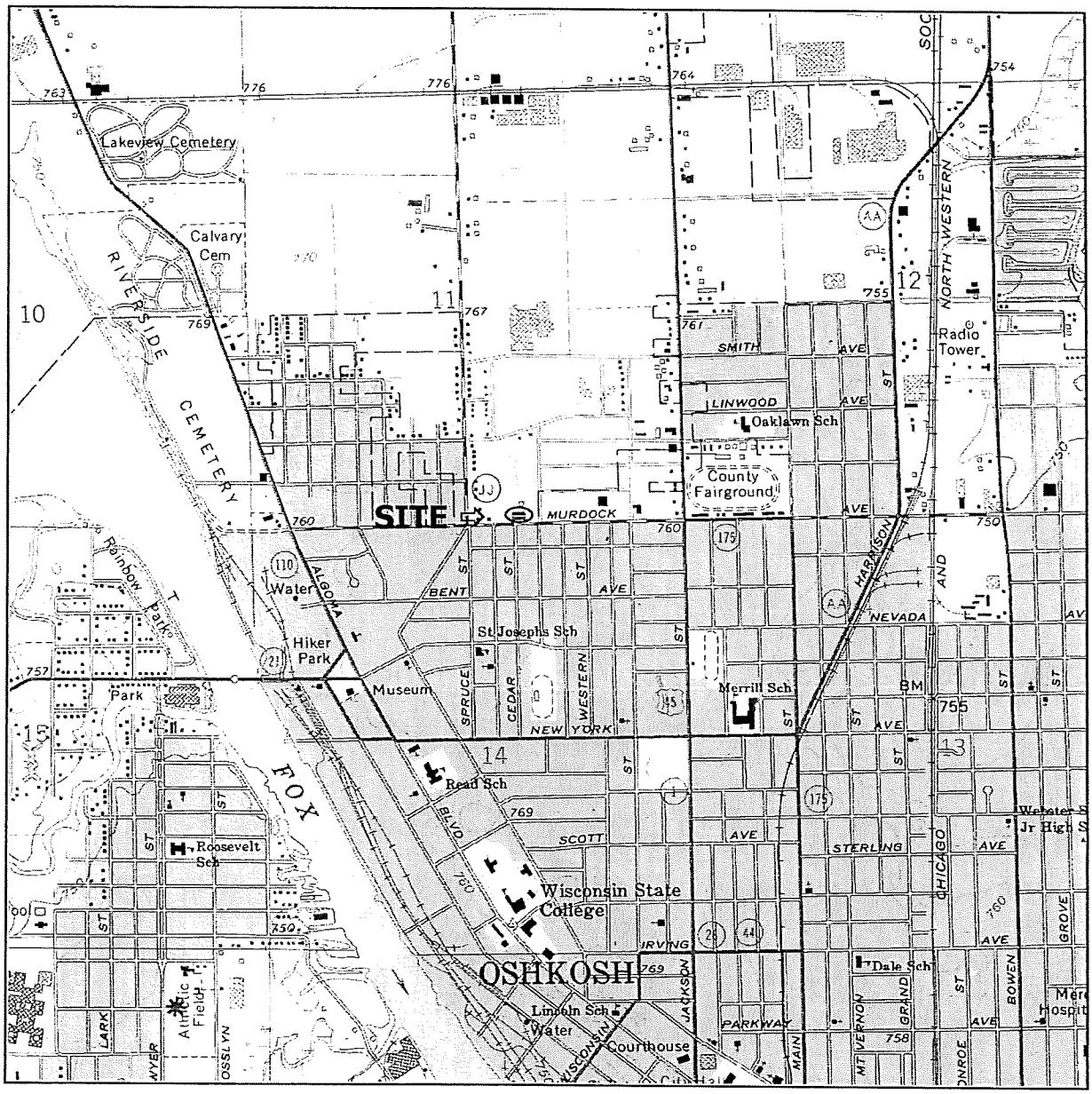
GIS Registry Packet
Mercury Marine
Plant 6 – Petroleum Investigation
1018 Murdock Avenue, Oshkosh, Wisconsin

STATEMENT BY RESPONSIBLE PARTY

Mr. Craig Dousharm, a representative of Mercury Marine, the responsible party for the petroleum release at the Plant 6 property located at 1018 Murdock Avenue, Oshkosh, Wisconsin, states that the legal description for the property to be listed in the GIS Registry provided to the Wisconsin Department of Natural Resources (WDNR) in this GIS Registry packet for WDNR BRRTS #03-71-182214 is complete and accurate to the best of my knowledge.

Craig F. Dousharm
Signature of Representative for Responsible Party

3/5/09
Date



SE ¼ of the SE ¼ Sec. 11, T18N, R16E. Adapted from U.S.G.S. 7.5 minute series, Oshkosh, Wisconsin, quadrangle (dated 1961, photorevised 1975).

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

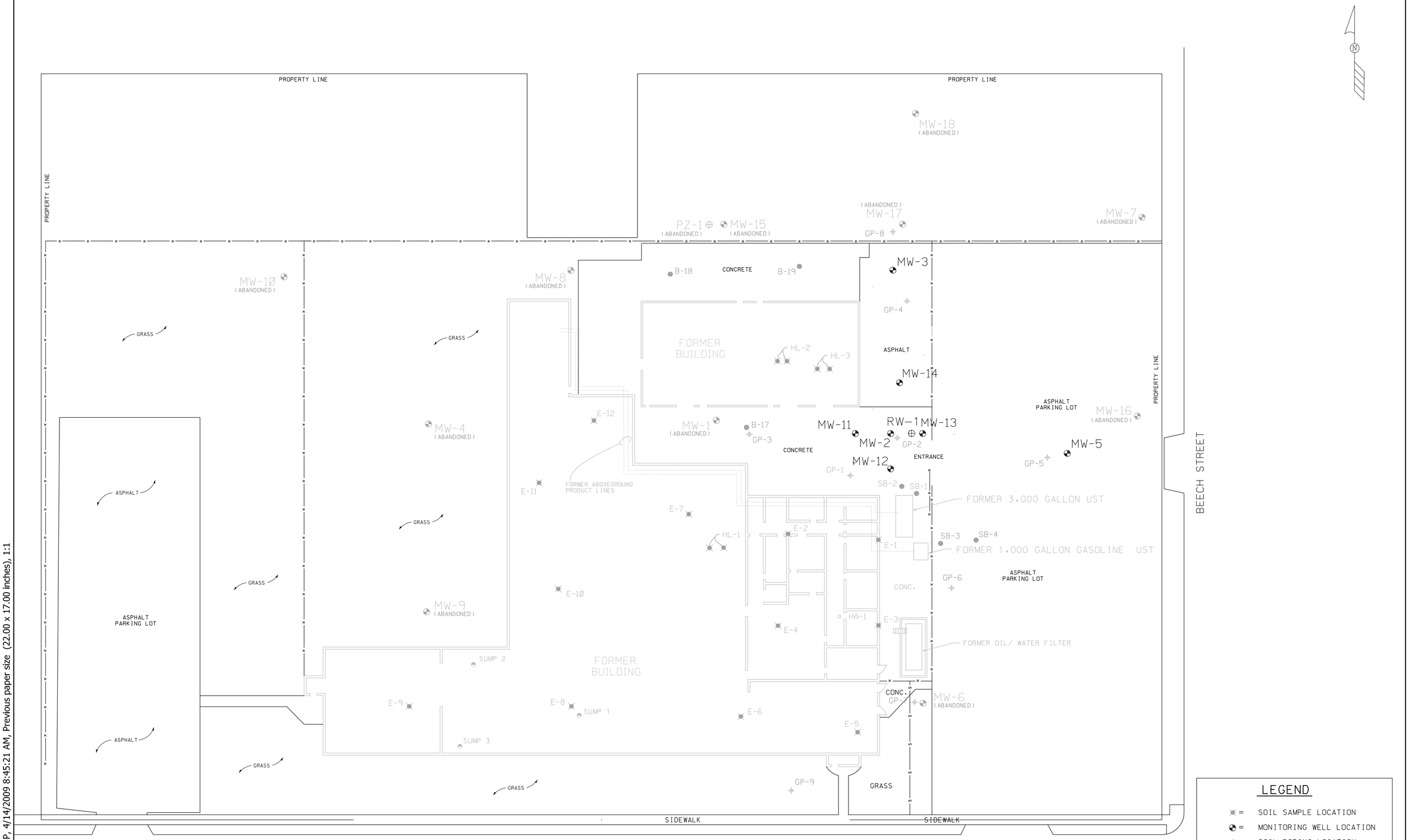
CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

N

Figure 1. Site Location Map
Mercury Marine
1018 Murdock Avenue, Oshkosh, Wisconsin

SIGMA
ENVIRONMENTAL SERVICES INC.

8551fig1.ppt



NOTES:
1. THIS MAP BASED ON PLAN TITLED "PLANT 6 UST SYSTEM UPGRADE" PRODUCED BY MERCURY MARINE PLANT ENGINEERING DEPARTMENT, DATED 1-30-98. AND SURVEY PERFORMED BY SURVEY ASOCIATES, INC, DATED 12-30-98.
2. SUMP LOCATIONS ARE APPROXIMATED AND HAVE NOT BEEN SURVEYED. ALL SUMPS ARE LOCATED IN THE BASEMENT.

LEGEND

- = SOIL SAMPLE LOCATION
- = MONITORING WELL LOCATION
- = SOIL BORING LOCATION
- = SEWER LINE LOCATION
- = CYCLONE FENCE LOCATION
- = GEOPROBE LOCATION
- = HAND AUGER LOCATION
- = SUMP LOCATION

THE SIGMA GROUP
Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, Wisconsin 53233
Phone: 414-643-4200
Fax: 414-643-4210

SCALE – 1" = 30' 0' 15' 30' 45' 60'

NO	DATE	REVISIONS	BY	APVD

	NAME:	DATE:
DRAWN BY:	SJGJ	02/23/09
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6

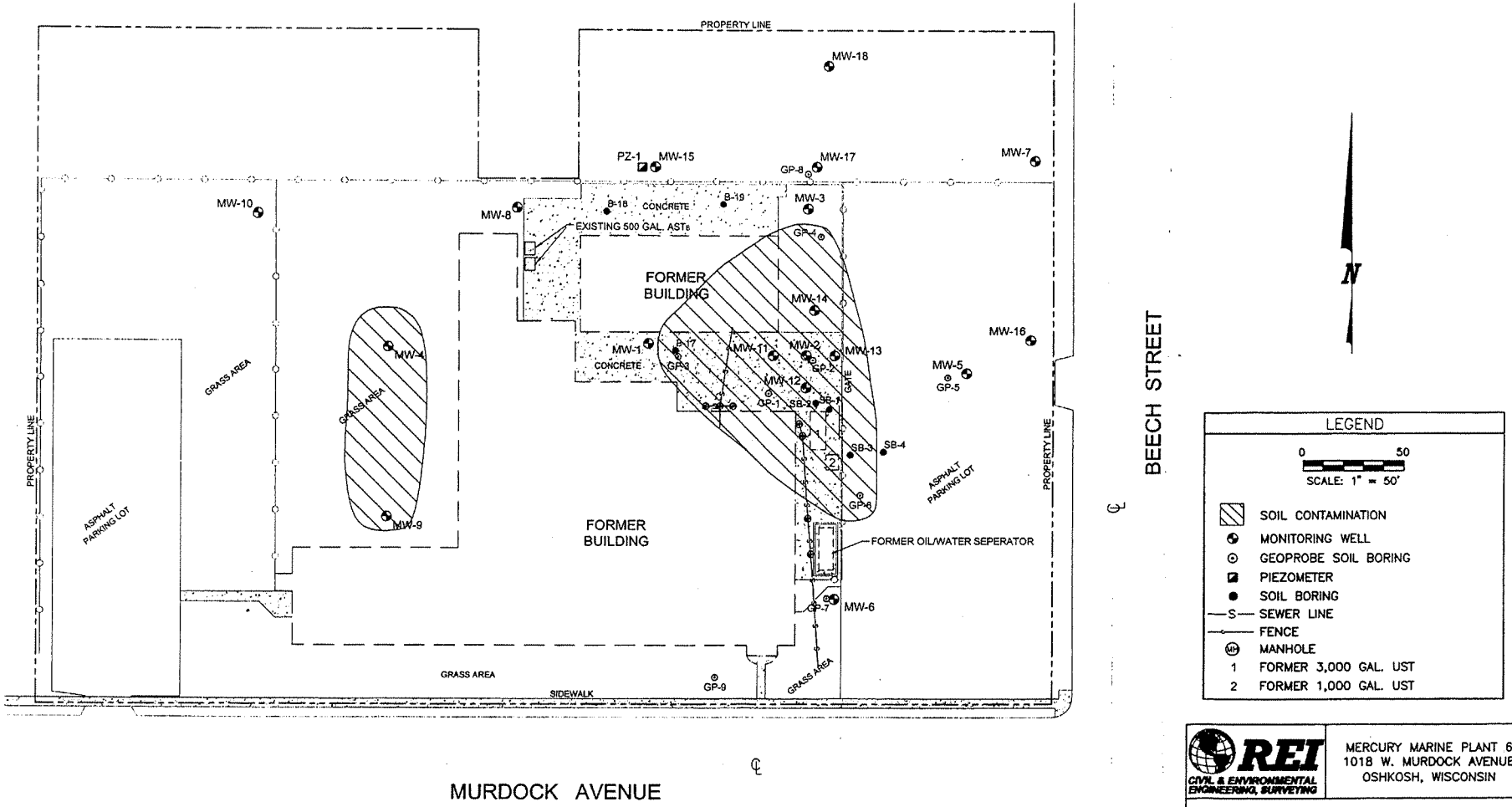
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN

SITE PLAN MAP

DRAWING NUMBER
7272-014

FIGURE 2

K:\mercury_marine\7272\7272-014.dwg, F1 SPMP, 4/14/2009 8:45:21 AM, Previous paper size (22.00 x 17.00 inches), 1:1



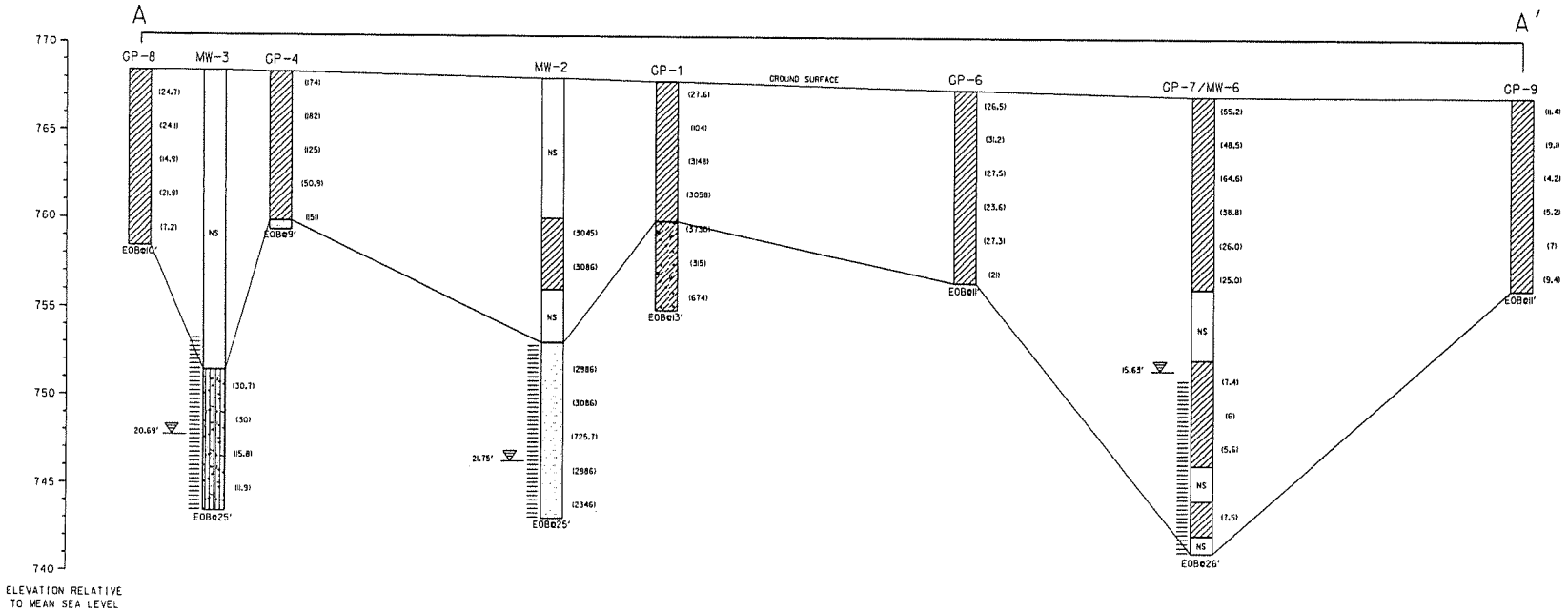
REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

MERCURY MARINE PLANT 6
1018 W. MURDOCK AVENUE
OSHKOSH, WISCONSIN

FIGURE 4 : EXISTING SOIL CONTAMINATION > RCL

PROJECT No.	DRAWN BY:	DATE:
1967	JSD	4/8/05

DRAWING FILE: J:\Drafting\1967MERC\1967CONTAM.dwg LAYOUT: Model PLOTTED: May 06, 2005 - 8:26am PLOTTED BY: ToddW



LEGEND

≡ = WELL SCREEN INTERVAL

▽ = STATIC WATER LEVEL (12-28-98)

NS = NOT SAMPLED

USCS SYMBOLS

SP - POORLY - GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.

SM - SILTY - SANDS, SAND - SILT MIXTURES.

CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SAND CLAYS, SILTY CLAYS, LEAN CLAYS.

GC - CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES.

NOTES:
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 5'
( ) = FIELD PHOTOIONIZATION DETECTION RESULTS, EXPRESSED AS INSTRUMENT UNITS AS ISOBUTYLENE (1ui).

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Phone: 414-643-4200
Fax: 414-643-4210

SCALE - 1" = 30' 0' 15' 30' 45' 60'

NO	DATE	REVISIONS	BY	APVD

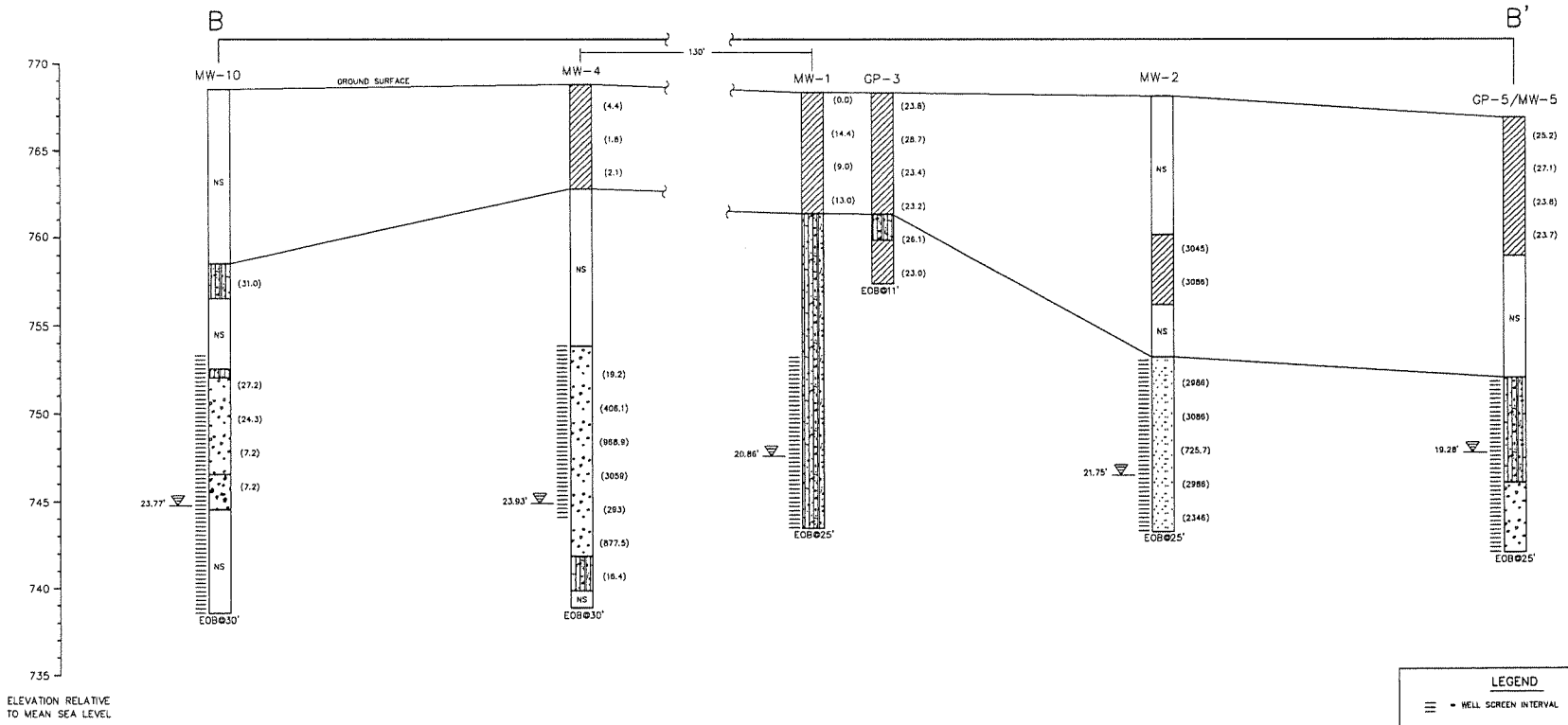
	NAME:	DATE:
DRAWN BY:	SJGJ	02/23/09
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
GEOLOGICAL CROSS SECTION MAP A - A'

DRAWING NUMBER
7272-014

FIGURE 4

K:\mercury_marine\7272\7272-014.dwg, F4-GCSM A-A', 2/23/2009 1:53:12 PM, Previous paper size (22.00 x 17.00 inches), 1:1



LEGEND

- = WELL SCREEN INTERVAL
- = STATIC WATER LEVEL (12-28-98)
- NS = NOT SAMPLED

USCS SYMBOLS

- GW - WELL - GRADED GRAVELS, GRAVEL - SAND MIXTURES LITTLE OR NO FINES.
- GC - CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES.
- SW - WELL - GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.
- SP - POORLY - GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.
- SM - SILTY - SANDS, SAND - SILT MIXTURES.
- CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SAND CLAYS, SILTY CLAYS, LEAN CLAYS.

NOTES:
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 5'
( ) = FIELD PHOTOIONIZATION DETECTION RESULTS, EXPRESSED AS INSTRUMENT UNITS AS ISOBUTYLENE (iu).

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SCALE - 1" = 30'
0' 15' 30' 45' 60'

NO	DATE	REVISIONS	BY	APVD

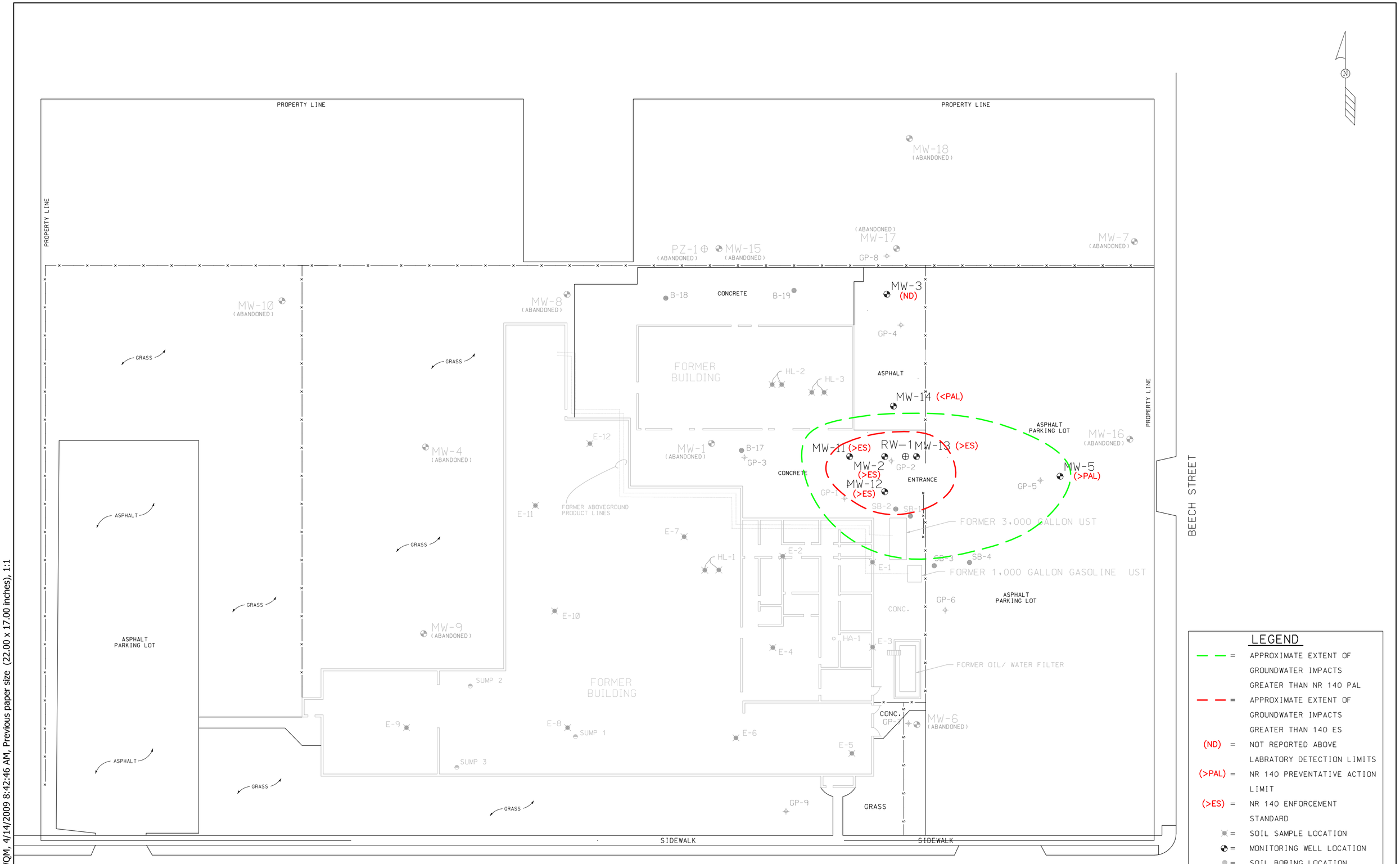
	NAME:	DATE:
DRAWN BY:	SJGJ	02/23/09
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
GEOLOGICAL CROSS SECTION MAP B - B'

DRAWING NUMBER
7272-014

FIGURE 5

K:\mercury_marine\7272\7272-014.dwg, F5-GCSM, 2/23/2009 1:17:53 PM, Previous paper size (22.00 x 17.00 inches), 1:1



NOTES:
1. THIS MAP BASED ON PLAN TITLED "PLANT 6 UST SYSTEM UPGRADE" PRODUCED BY MERCURY MARINE PLANT ENGINEERING DEPARTMENT, DATED 1-30-98. AND SURVEY PERFORMED BY SURVEY ASOCIATES, INC, DATED 12-30-98.
2. SUMP LOCATIONS ARE APPROXIMATED AND HAVE NOT BEEN SURVEYED. ALL SUMPS ARE LOCATED IN THE BASEMENT.

LEGEND

— — =	APPROXIMATE EXTENT OF GROUNDWATER IMPACTS GREATER THAN NR 140 PAL
— — =	APPROXIMATE EXTENT OF GROUNDWATER IMPACTS GREATER THAN 140 ES
(ND) =	NOT REPORTED ABOVE LABRATORY DETECTION LIMITS
(>PAL) =	NR 140 PREVENTATIVE ACTION LIMIT
(>ES) =	NR 140 ENFORCEMENT STANDARD
=	SOIL SAMPLE LOCATION
=	MONITORING WELL LOCATION
=	SOIL BORING LOCATION
—s— =	SEWER LINE LOCATION
—x—x— =	CYCLONE FENCE LOCATION
=	GEOPROBE LOCATION
=	HAND AUGER LOCATION
=	SUMP LOCATION

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SCALE – 1" = 30' 0' 15' 30' 45' 60'

NO	DATE	REVISIONS	BY	APVD

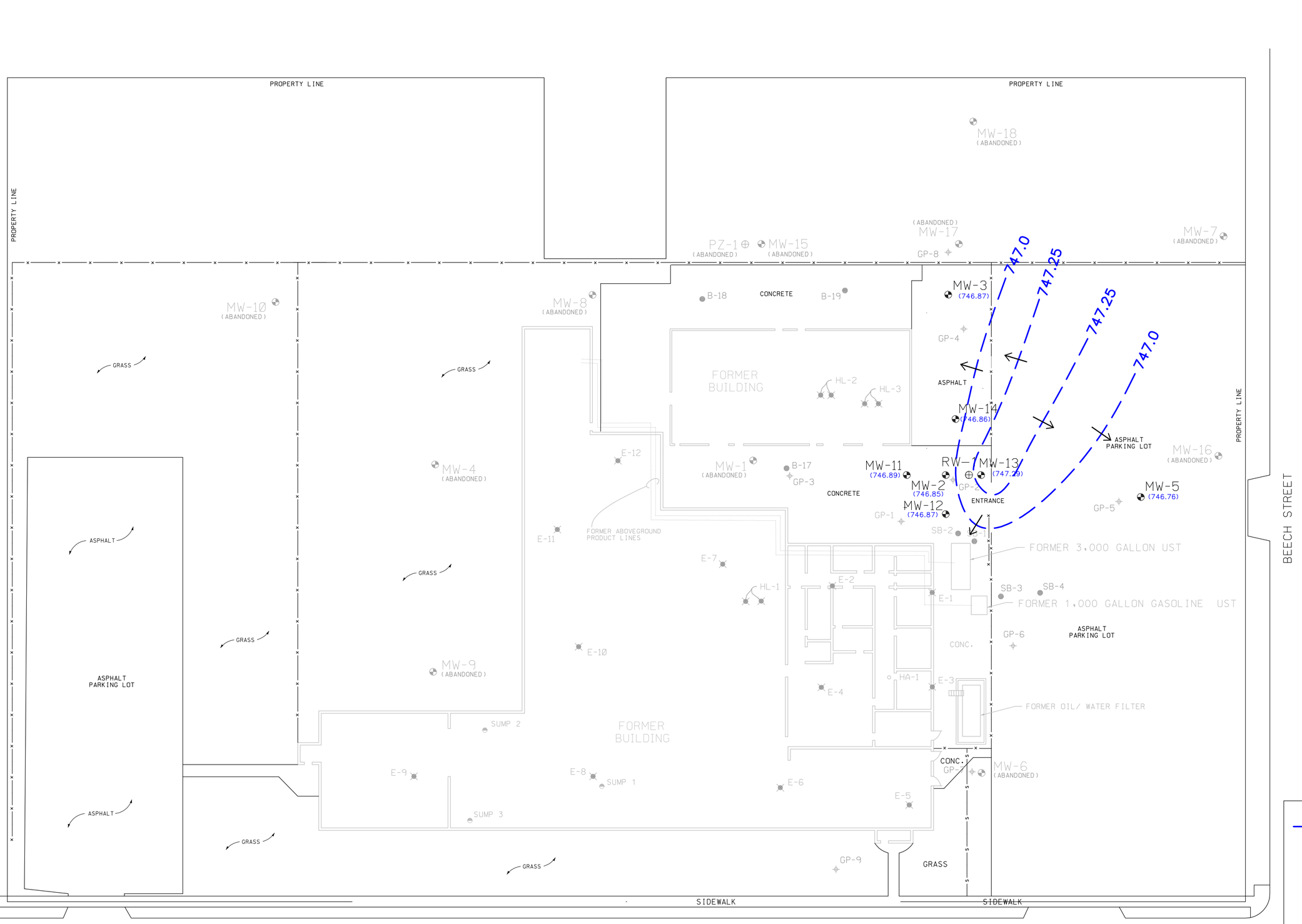
	NAME:	DATE:
DRAWN BY:	SJGJ	02/23/09
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
GROUNDWATER QUALITY MAP (11/26/08)

DRAWING NUMBER
7272-014

FIGURE 6

K:\mercury_marine\7272\7272-014.dwg, F6-GWQM, 4/14/2009 8:42:46 AM, Previous paper size (22.00 x 17.00 inches), 1:1



NOTES:
1. THIS MAP BASED ON PLAN TITLED "PLANT 6 UST SYSTEM UPGRADE" PRODUCED BY MERCURY MARINE PLANT ENGINEERING DEPARTMENT, DATED 1-30-98. AND SURVEY PERFORMED BY SURVEY ASOCIATES, INC. DATED 12-30-98.
2. SUMP LOCATIONS ARE APPROXIMATED AND HAVE NOT BEEN SURVEYED. ALL SUMPS ARE LOCATED IN THE BASEMENT.

LEGEND

- = GROUNDWATER CONTOUR LINE, CONTOUR INTERVAL =0.25'
- () = STATIC GROUNDWATER LEVEL
- → = GROUNDWATER FLOW DIRECTION
- = SOIL SAMPLE LOCATION
- = MONITORING WELL LOCATION
- = SOIL BORING LOCATION
- —s— = SEWER LINE LOCATION
- —x—x— = CYCLONE FENCE LOCATION
- = GEOPROBE LOCATION
- = HAND AUGER LOCATION
- = SUMP LOCATION

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SCALE – 1" = 30' 0' 15' 30' 45' 60'

NO	DATE	REVISIONS	BY	APVD

	NAME:	DATE:
DRAWN BY:	SJGJ	02/23/09
DESIGNED BY:		
CHECKED BY:		
APPROVED BY:		

MERCURY MARINE - PLANT 6
1018 MURDOCK AVENUE, OSHKOSH, WISCONSIN
GROUNDWATER CONTOUR MAP (11/26/08)

DRAWING NUMBER
7272-014

FIGURE 7

K:\mercury_marine\7272\7272-014.dwg, F7-GWCM, 4/14/2009 8:43:30 AM, Previous paper size (22.00 x 17.00 inches), 1:1

Table 1
Soil Quality Results - Detections Only
Petroleum Investigation
Mercury Marine Plant 6
Oshkosh, Wisconsin

Boring ID	6-SB-1	6-SB-2	6-SB-3	6-SB-4	NR 720 Soil Cleanup Levels	NR 746 Table 1	NR 746 Table 2	Site Specific RCL
Depth (inches bgs)	24"-48"	72"-96"	96"-120"	48"-72"				
GRO	<1.1	500	440	470	100	**	**	**
DRO	<0.95	150	120	99	100	**	**	**
Lead	3.7	3.4	5.2	4.3	500	**	**	**
Volatile Organic Compounds								
Benzene	<0.014	<0.014	0.22"J"	0.38"J"	0.0055	8.5	1.1	**
Toluene	<0.013	0.76	0.16"J"	0.37"J"	1.5	38	**	**
Ethylbenzene	<0.013	0.22"J"	1.7	0.68	2.9	4.6	**	**
Total Xylenes	<0.044	3.0 "J"	4.63 "J"	3.02	4.1	42	**	**
1,2-DCA	<0.017	<0.17	<0.17	<0.17	0.0049	0.69	0.54	**
1,3,5-Trimethylbenzene	<0.011	1.3	1.1	0.71	**	11	**	**
1,2,4-Trimethylbenzene	<0.02	2.5	2.9	1.7	**	83	**	**
n-Butylbenzene	<0.015	2.3	1.5	0.87	**	**	**	**
sec-Butylbenzene	<0.015	0.16 "J"	1	0.58	**	**	**	**
Isopropylbenzene	<0.013	1.1	0.18"J"	0.18"J"	**	**	**	**
p-Isopropyltoluene	<0.015	<0.15	0.89	0.24"J"	**	**	**	**
Naphthalene	<0.037	1.3	0.58"J"	**3.1**	**	2.7	**	**
n-Propylbenzene	<0.0082	0.35	0.53	0.28	**	**	**	**

Key: Preliminary Soil Samples collected on Janurary 28, 1998
NA = Not Analyzed
Site Specific RCL, values calculated using EPA Soil Screening Level Web Site for groundwater pathway
* = Includes Total Xylenes and Styrene (compound concentrations can not be differentiated, but per the laboratory [US Filter/Enviroscan], reported
** = No Standard Established
[ ] = Exceeds NR 720 Soil Cleanup Guidelines and/or Site Specific RCLs
BOLD = Exceeds NR 746 Table 1 or Table 2 values

All results expressed in milligrams per kilogram (mg/kg)

Table 1- Cont'd
Soil Quality Results - Detections Only
Petroleum Investigation
Mercury Marine Plant 6
Oshkosh, Wisconsin

Boring ID	GP-1	GP-2	GP-3	GP-4	GP-4	GP-5	GP-6	GP-7	GP-8	GP-9	HA-1	NR 720 Soil Cleanup Levels	NR 746 Table 1	NR 746 Table 2	Site Specific RCL
Depth (feet bgs)	8-10	8-10	8-10	2-4	8-10	4-6	8-10	4-6	6-8	8-10	3-4				
GRO	**230**	**260**	<1.3	**120**	94	2.1	3.4	<1.3	<1.3	<1.3	33	100	**	**	**
DRO	46	68	1.8	8	NA	<1	<1	14	<1	<1	20	100	**	**	**
Lead	4.2	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	**	**	**
Petroleum Volatile Organic Compounds															
Benzene	**1.1**	**2.6**	0.016	0.055	0.043	<0.015	0.02	<0.016	<0.015	<0.015	0.71	0.0055	8.5	1.1	**
Toluene	3.4	16	0.015	0.023	0.16	0.041	<0.014	<0.015	<0.014	0.015	<0.032	1.5	38	**	**
Ethylbenzene	**6.3**	**6**	0.018	0.3	0.25	0.062	<0.014	<0.015	<0.014	<0.014	1.4	2.9	4.6	**	**
Total Xylenes	**25**	**26.7**	0.033	0.394	0.87	0.246	<0.029	<0.032	<0.03	<0.03	0.4	4.1	42	**	**
1,3,5-Trimethylbenzene	**4.4**	**4.8**	0.014	1.8	0.94	0.036	<0.012	<0.013	<0.012	<0.012	1.3	**	0.69	0.54	**
1,2,4-Trimethylbenzene	15	16	<0.022	2.3	1.5	0.12	0.085	<0.023	<0.022	<0.022	4.1	**	83	**	**
Polycyclic Aromatic Hydrocarbons:															
Naphthalene	0.67	0.42	NA	0.053	NA	NA	NA	NA	NA	NA	0.26	**	**	**	**
Acenaphthylene	0.2	0.16	NA	<0.033	NA	NA	NA	NA	NA	NA	<0.034	**	**	**	**
Phenanthrene	<0.0016	0.037	NA	0.15	NA	NA	NA	NA	NA	NA	<0.0018	**	**	**	**
Dibenzo(a,h)anthracene	0.0035	<0.0032	NA	<0.0037	NA	NA	NA	NA	NA	NA	<0.0037	**	**	**	**
1-Methylnaphthalene	0.82	0.65	NA	0.12	NA	NA	NA	NA	NA	NA	0.16	**	**	**	**
2-Methylnaphthalene	1.9	1.4	NA	0.16	NA	NA	NA	NA	NA	NA	0.4	**	**	**	**

KEY: Geoprobe borings completed on 6/4/98
NA = Not Analyzed
Site Specific RCL, values calculated using EPA Soil Screening Level Web Site for groundwater pathway
* = Includes Total Xylenes and Styrene (compound concentrations can not be differentiated, but per the laboratory [US Filter/Enviroscan], reported concentration likely reflects Total Xylene)
** = No Standard Established
[ ] = Exceeds NR 720 Soil Cleanup Guidelines and/or Site Specific RCLs
BOLD = Exceeds NR 746 Table 1 or Table 2 values

All results expressed in milligrams per kilogram (mg/kg)

Table 1 (cont'd)
Soil Quality Results - Detections Only
Petroleum Investigation
Mercury Marine Plant 6
Oshkosh, Wisconsin

Boring ID	MW-1	MW-2			MW-3	MW-4		MW-5	MW-6	MW-7		MW-8		MW-9		MW-10		MW-11	NR 720 Soil	NR 746	NR 746	Site Specific
Depth (feet bgs)	6-8	8-10	17-19	23-25	17-19	19-21	21-23	17-19	19-21	10-12'	20-22'	8-10'	20-22'	16-18'	22-24'	10-12'	22-24'	18-20'	Cleanup Levels	Table 1	Table 2	RCL
GRO	5.3	**100**	**520**	**230**	<1.3	**100**	**410**	2.6	<1.2	<1.3	<1.3	<1.2	<1.3	1.7	<1.2	<1.3	<1.3	**5900**	100	**	**	**
DRO	5.1	NA	190	NA	2.1	NA	81	1.9	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	**	**	**
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	**	**	**
Volatile Organic Compounds																						
Benzene	<0.017	0.78	**2.9**	**3.7**	<0.016	0.18	**1.1**	<0.017	<0.015	<0.016	<0.016	<0.015	0.043	0.057	0.034	<0.016	<0.015	**38**	0.0055	8.5	1.1	**
Toluene	0.016	3.9	28	20	<0.015	0.2	0.25	0.027	0.034	<0.015	<0.015	<0.014	0.041	0.028	<0.013	<0.014	<0.014	**97**	1.5	38	**	**
Ethylbenzene	0.066	2.2	**14**	**6.1**	<0.015	0.6	**11**	0.067	<0.014	<0.015	<0.015	<0.014	0.043	0.024	<0.013	<0.014	<0.014	**120**	2.9	4.6	**	**
Total Xylenes	0.181	9.6	64	28.6	<0.032	0.795	21.21	0.13	<0.029	<0.031	<0.032	<0.03	0.091	0.076	<0.028	<0.031	<0.03	**460**	4.1	42	**	**
1,2-DCA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0049	0.69	0.54	**
1,3,5-Trimethylbenzene	0.039	1.8	**12**	3.9	<0.013	2	9.4	0.046	<0.012	<0.012	<0.013	<0.012	0.044	0.022	<0.011	<0.012	<0.012	92	**	11	**	**
1,2,4-Trimethylbenzene	0.064	6	39	12	0.034	6.3	33	0.16	<0.022	<0.023	<0.024	<0.022	0.041	0.025	<0.021	<0.023	<0.022	240	**	83	**	**
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**
p-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	2.7	**	**
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**	**

KEY: Trip blank submitted with soil samples from MW-7, MW-8, MW-9, and MW-10 contained slight impacts of Ethylbenzene, Xylenes, 1,3,5-TMB, and 1,2,4-TMB.
NA = Not Analyzed
Site Specific RCL, values calculated using EPA Soil Screening Level Web Site for groundwater pathway
* = Includes Total Xylenes and Styrene (compound concentrations can not be differentiated, but per the laboratory [US Filter/Enviroscan], reported concentration likely reflects Total Xylene)
** = No Standard Established
*** = Acetone detected in soil sample and trip blank at concentrations of 0.5 mg/kg and 0.2 mg/kg, respectively. Likely lab contaminant.
[ ] = Exceeds NR 720 Soil Cleanup Guidelines and/or Site Specific RCLs
BOLD = Exceeds NR 746 Table 1 or Table 2 values
All results expressed in milligrams per kilogram (mg/kg)

Table 1 (cont'd)
Soil Quality Results - Detections Only
Petroleum Investigation
Mercury Marine Plant 6
Oshkosh, Wisconsin

Boring ID	MW-12	MW-13	MW-14	MW-16			MW-17***	MW-18	B-17			B-18		B-19			PZ-1		Trip Blank	NR 720 Soil	NR 746	NR 746	Site Specific
Depth (feet bgs)	18-20'	18-20'	18-20'	4-6'	20-22'	24-26'	17-19'	22-24'	2-4'	8-10'	20-22'	2-4'	8-10'	4-6'	8-10'	18-20'	20-22'	26-28'		Cleanup Levels	Table 1	Table 2	RCL
GRO	**4400**	**6100**	33	<5.85	<6.11	<5.53	NA	NA	<6.49	<5.43	<5.80	<6.39	<5.34	<5.97	<5.41	<5.78	<6.05	<6.02	<1.1	100	NA	NA	**
DRO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	NA	NA	**
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	NA	NA	**
Volatile Organic Compounds																							
Benzene	**22**	**64**	0.4	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<0.014	0.0055	8.5	1.1	**
Toluene	**84**	**360**	0.58	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<0.013	1.5	38	**	**
Ethylbenzene	**110**	**130**	0.85	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	0.014	2.9	4.6	**	**
Total Xylenes	**360**	**590**	2.87*	<.025*	<.025*	<.025*	<0.208	<0.152	<.025*	<.025*	0.0339*	<.025*	<.025*	<.025*	<.025*	<.025*	<.025*	<.025*	0.029	4.1	42	**	**
1,2-DCA	NA	NA	<.014	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	0.0049	0.69	0.54	**
1,3,5-Trimethylbenzene	**140**	**96**	0.99	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	0.02	**	11	**	**
1,2,4-Trimethylbenzene	**329**	**280**	2.7	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	0.026	**	83	**	**
n-Butylbenzene	NA	NA	1.6	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	**
sec-Butylbenzene	NA	NA	0.091	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	**
Isopropylbenzene	NA	NA	0.074	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	**
p-Isopropyltoluene	NA	NA	0.097	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	**
Naphthalene	NA	NA	0.66	<.025	<.025	<.025	<0.29	<0.22	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	2.7	**	**
n-Propylbenzene	NA	NA	0.46	<.025	<.025	<.025	<0.068	<0.052	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	NA	**	**	**	**

KEY: Trip blank submitted with soil samples from MW-7, MW-8, MW-9, and MW-10 contained slight impacts of Ethylbenzene, Xylenes, 1,3,5-TMB, and 1,2,4-TMB.
NA = Not Analyzed
Site Specific RCL, values calculated using EPA Soil Screening Level Web Site for groundwater pathway
* = Includes Total Xylenes and Styrene (compound concentrations can not be differentiated, but per the laboratory [US Filter/Enviroscan], reported concentration likely reflects Total Xylene)
** = No Standard Established
*** = Acetone detected in soil sample and trip blank at concentrations of 0.5 mg/kg and 0.2 mg/kg, respectively. Likely lab contaminant.
[ ] = Exceeds NR 720 Soil Cleanup Guidelines and/or Site Specific RCLs
BOLD = Exceeds NR 746 Table 1 or Table 2 values
All results expressed in milligrams per kilogram (mg/kg)

Table 2

Groundwater Quality Results - BTEX and Detects Only

Mercury Marine Plant 6

Oshkosh, Wisconsin

Project Reference #7272

		MW-2																Chapter NR 140	
ANALYTE	Date	07/09/98	05/24/01	08/22/01	05/09/02	03/10/04	06/01/04	08/25/04	02/18/05	12/19/05	03/31/06	07/28/06	11/09/06	04/03/07	08/28/07	05/05/08	11/26/08	ES	PAL
Petroleum Volatile Organic Compounds																			
Benzene	µg/l	**11000**	**14000**	**4200**	**4300**	**5600**	**2190**	**11200**	**2690** A-01	**2060**	**2200**	**2600**	**360**	**750**	**1100**	**1500**	**1100**	5.0	0.5
Ethylbenzene	µg/l	**1500**	**2000**	**1700**	**1700**	**3290**	**868**	**1550**	**1660** A-01	**3640**	**1400**	**1100**	**620**	**1000**	**610**	**830**	**1500**	700	140
Methyl Tert Butyl Ether	µg/l	<58	<40	<500	<67	<19	<0.29	<29	<8.1	<15.8	<23	<23	<9.2	<9.2	<4.6	<9.2	<9.2	60	12
Naphthalene	µg/l	**500**	**380**	<500	**520**	**1160**	**215**	<800	**542** A-01	**4490**	NA	NA	NA	NA	**200**	**240**	**420**	100	10
Toluene	µg/l	**20000**	**25000**	**16000**	**13000**	**52200**	**8620**	**28000**	**9260**	**15700**	**7600**	**7300**	**3000**	**2900**	**2400**	**2900**	**6300**	1,000	200
1,2,4 Trimethylbenzene	µg/l	940	2100	2700	2500	5210	2240	1370	2430	50400	1600	1500	7800	620	560	730	1100	**	**
1,3,5 Trimethylbenzene	µg/l	310	530	750	750	1390	784	<500	648	6510	450	420	2200	180	150	190	300	**	**
Trimethylbenzene (Total)	µg/l	**1250**	**2630**	**3450**	**3250**	**7600**	**3024**	**1370**	**3078**	**56910**	**2050**	**1920**	**10000**	**800**	**710**	**920**	**1400**	480	96
Xylenes	µg/l	**8000**	**11300**	**11100**	**7700**	**104000**	**8610**	**10400**	**10400** A-01	**29300**	**7700**	**8100**	**8700**	**2800**	**2100**	**3100**	**4900**	10,000	1000
In Situ Measurements:																			
Dissolved Oxygen	mg/L	0.60	NA	0.02	NA	0.15	0.14	0.16	0.16	0.15	0.28				0.36	NA	NA	**	**
Redox	mV	103.8	NA	-34.3	NA	-122.6	-113.2	-110.0	-90.3	NA	-95.0				-95.0	NA	NA	**	**
pH	none	7.2	NA	7.0	NA	7.0	7.0	7.0	7.0	NA	7.0				7.0	NA	NA	**	**
Conductivity	µS	1077	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	**	**
Ferrous Iron	mg/L	1.0	NA	3.6	NA	5.0	4.0	4.4	5.0	4.0	3.6				6.0	NA	NA	**	**
Temperature	C	11.5	NA	12.3	NA	10.1	10.2	11.4	10.9	NA	10.9				11.9	NA	NA	**	**

Notes:

A-01 One or more of the CCC recoveries were above the method specified acceptance criteria, however, the recovery of this analyte in the check standard is within 20% of its known value.
J Results reported between Method Detection Limit and Limit of Quantitation are less certain than results at or above the LOQ.
G14 The recovery of this analyte in the check standard is above the method specified acceptance criteria.
G20 This analyte was initially analyzed within holdtime; however, reanalysis at a dilution was performed outside the method specified holdtime.
G28 The recovery of this Calibration Check Compound (CCC) in the check standard is above the method specified acceptance criteria.
Results at MW-1, MW-4, MW-5, and MW-14 during the 2/21/2002 sampling contained at "D" on the laboratory analytical report, indicating a dilution
µg/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million)
ng/L = Nanograms per liter
mV = millivolts
S.U. = standard pH unit
Degree C = Degree Celsius
NA = Not Analyzed ** = No Standard
NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
Exceedances: **BOLD** = concentration exceeds Chapter NR 140 PAL
BOX = concentration exceeds Chapter NR 140 ES

Table 2

Groundwater Quality Results - BTEX and Detects Only

Mercury Marine Plant 6

Oshkosh, Wisconsin

Project Reference #7272

		MW-3																									Chapter NR 140	
ANALYTE	Date	07/09/98	12/28/98	07/16/99	04/24/00	11/14/00	05/24/01	08/22/01	11/15/01	02/21/02	05/09/02	11/13/02	03/10/04	06/01/04	08/25/04	11/17/04	02/18/05	12/19/05	03/31/06	07/28/06	11/09/06	04/03/07	08/28/07	05/05/08	11/26/08	ES	PAL
Petroleum Volatile Organic Compounds																												
Benzene	µg/l	***1.2***	***2.0***	***2.3***	***1.02***	***2.95***	***1.8***	***2.0***	***1.7***	***2.0***	***1.6***	***1.1***	***0.73***	***1.1***	<0.5	***0.550***	***1.21***	<0.291	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5.0	0.5
Ethylbenzene	µg/l	<0.35	0.46	<0.35	0.541	<0.5	<0.57	<1.0	<0.43	<1.0	<0.43	<0.53	<5.0	<5.0	<5.0	<5.0[G28]	<5.0	<5.0	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	700	140
Methyl Tert Butyl Ether	µg/l	<0.29	<0.29	<0.29	<0.34	<0.3	<0.2	<5.0	<0.87	<5.0	<0.67	<0.87	<0.381	0.47	1.04	<0.29	<0.405	<0.317	<2.0	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	60	12
Naphthalene	µg/l	<0.72	<0.72	<0.72	<0.8	<0.8	<0.27	<5.0	<0.59	<5.0	<0.59	<0.63	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	NA	NA	NA	NA	<0.5	<0.5	<0.5	100	10
Toluene	µg/l	1.3	<0.32	<0.32	<0.4	<0.4	0.13	<1.0	<0.47	<1.0	<0.47	<0.84	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.25	1,000	200
1,2,4 Trimethylbenzene	µg/l	<0.36	0.87	<0.36	<0.4	<0.4	<0.34	<1.0	<0.51	<1.0	<0.51	<0.69	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**	**
1,3,5 Trimethylbenzene	µg/l	<0.38	1.1	<0.38	<0.15	<0.15	<0.29	<1.0	<0.52	<1.0	<0.52	<0.64	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	**	**
Trimethylbenzene (Total)	µg/l	<0.38	1.97	<0.38	<0.15	<0.15	<0.34	<1.0	<0.52	<1.0	<0.52	<0.69	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	480	96
Xylenes	µg/l	1.91	0.62	1.9	<0.19	0.365	0.29	<3.0	<1.94	<3.0	<1.4	<1.83	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	10,000	1000
In Situ Measurements:																												
Dissolved Oxygen	mg/L	3.10	0.20	0.10	0.20	NA	NA	0.52	NA	0.64	NA	NA	0.31	0.18	0.36	0.24	0.40	0.28	0.82				0.44	NA	NA	**	**
Redox	mV	154.0	68.9	208.9	266.4	NA	NA	63.7	NA	259.3	NA	NA	166.9	22.0	44.0	44.0	92.9	NA	51.0				120.0	NA	NA	**	**
pH	none	7.3	7.8	8.3	8.2	NA	NA	7.0	NA	7.0	NA	NA	7.0	7.0	7.0	7.0	7.0	NA	7.0				7.0	NA	NA	**	**
Conductivity	µS	1132	1108	1261	1055	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	**	**
Ferrous Iron	mg/L	0.0	0.0	0.0	0.0	NA	NA	0.0	NA	0.0	NA	NA	0.0	0.8	0.8	1.6	0.6	0.2	0.0				0.0	NA	NA	**	**
Temperature	C	10.2	12.7	10.9	10.9	NA	NA	11.8	NA	11.1	NA	NA	10.0	9.9	11.1	13.3	10.9	NA	11.2				11.8	NA	NA	**	**

Notes:

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µg/L = micrograms per liter (equivalent to parts per billion)
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ng/L = Nanograms per liter
mV = millivolts
S.U. = standard pH unit
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NA = Not Analyzed ** = No Standard
NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
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Exceedances: **BOLD** = concentration exceeds Chapter NR 140 PAL
BOX = concentration exceeds Chapter NR 140 ES

Table 2

Groundwater Quality Results - BTEX and Detects Only

Mercury Marine Plant 6

Oshkosh, Wisconsin

Project Reference #7272

		MW-5																									Chapter NR 140	
ANALYTE	Date	07/09/98	12/28/98	07/16/99	04/24/00	11/14/00	05/24/01	08/22/01	11/15/01	02/21/02	05/09/02	11/13/02	03/10/04	06/01/04	08/25/04	11/17/04	02/18/05	12/19/05	03/31/06	07/28/06	11/09/06	04/03/07	08/28/07	05/05/08	11/26/08	ES	PAL
Petroleum Volatile Organic Compounds																												
Benzene	µg/l	***750***	***53***	***170***	***5030***	796/>1430	***2800***	***730***	***659***	***250***	***5400***	***1100***	***3480***	***3800***	***2300***	***410***	<0.34	***459***	***4000***	***600***	***740***	***7800***	***710***	***0.71[J]***	***4.9***	5.0	0.5
Ethylbenzene	µg/l	60	<0.35	<1.8	***576***	4.91	***200***	***170***	***240***	83	***620***	120	***310***	<5.0	***404***	***300[G28]***	***281[A-01]***	67	***600***	61	120	***1200***	55	<0.22	<0.22	700	140
Methyl Tert Butyl Ether	µg/l	<5.8	1.8	<1.4	<150	9.08	<5.0	<5.0	<3.4	<50	<34	<8.7	<0.381	2.24	<14.5	<7.25	<0.405	<0.317	<12	<2.3	<2.3	<2.3	<0.23	<0.23	<0.23	60	12
Naphthalene	µg/l	<14	1.4	<3.6	<400	<1.0	***14***	***20***	***38***	<50	***62***	***31***	***52.7***	***70.5***	<400	***90.8***	***45.9[A-01]***	***18.5***	NA	NA	NA	NA	***12***	<0.5	<0.5	100	10
Toluene	µg/l	30	2.6	3.8	<200	11.2	93	47	19	<10	120	51	***284***	144	184	<125	135[A-01]	16.5	***640***	13	72	***1500***	***45***	<0.11	<0.25	1,000	200
1,2,4 Trimethylbenzene	µg/l	<7.2	0.81	<1.8	<200	<0.4	<8.5	4.2	5.4	<10	28	<6.9	40.8	78.5	<250	<125	92.1[G14]	19.5	200	19	55	610	21	<0.25	<0.25	**	**
1,3,5 Trimethylbenzene	µg/l	<7.6	0.79	<1.9	<75	<0.15	<7.2	2.0	3.6	<10	<26	<5.4	10.1	22.6	<250	<125	15.2[G14]	<5.0	40	5.7[J]	9.7	170	2.7	<0.19	<0.19	**	**
Trimethylbenzene (Total)	µg/l	<7.6	1.6	<1.9	<200	<0.15	<8.5	6.2	9.0	<10	28	<6.9	50.9	***101.1***	<250	<250	***107.3***	19.5	***240***	24.7	65	***740***	23.7	<0.25	<0.25	480	96
Xylenes	µg/l	42	3.73	<5.4	<275	1.86	76	66	39	<30	78	47	308	410	646	259	395[A-01]	39.5	***1400***	48	250	***3800***	59	<0.39	<0.39	10,000	1000
In Situ Measurements:																												
Dissolved Oxygen	mg/L	4.10	0.20	0.10	0.20	NA	NA	0.31	NA	0.59	NA	NA	0.19	0.88	0.44	0.24	0.19	0.23	0.44				0.50	NA	NA	**	**
Redox	mV	126.6	17.8	2.1	260.9	NA	NA	48.5	NA	97.2	NA	NA	88.3	116.4	94.6	64.1	-39.4	NA	-72.0				-62.0	NA	NA	**	**
pH	none	7.3	7.9	7.8	8.1	NA	NA	7.0	NA	7.0	NA	NA	7.0	7.0	7.0	7.0	7.0	NA	7.0				7.0	NA	NA	**	**
Conductivity	µS	1761	1689	1815	1447	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	**	**
Ferrous Iron	mg/L	0.0	0.2	1.4	0.6	NA	NA	2.2	NA	2.2	NA	NA	3.0	0.0	0.0	0.8	6.0	3.0	3.4				3.0	NA	NA	**	**
Temperature	C	11.9	14.8	12.5	12.0	NA	NA	12.8	NA	12.9	NA	NA	10.2	10.7	11.5	14.2	10.7	NA	12.3				12.9	NA	NA	**	**

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S.U. = standard pH unit
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Exceedances: **BOLD** = concentration exceeds Chapter NR 140 PAL
BOX = concentration exceeds Chapter NR 140 ES

Table 2

Groundwater Quality Results - BTEX and Detects Only

Mercury Marine Plant 6

Oshkosh, Wisconsin

Project Reference #7272

		MW-11																		Chapter NR 140	
ANALYTE	Date	07/16/99	04/24/00	05/24/01	08/22/01	11/15/01	05/09/02	11/13/02	03/10/04	06/01/04	08/25/04	12/19/05	03/31/06	07/28/06	11/09/06	04/03/07	08/28/07	05/05/08	11/26/08	ES	PAL
Petroleum Volatile Organic Compounds																					
Benzene	µg/l	**5200**	NA	**3900**	**3700**	**870**	**2700**	**530**	**460**	**81.8**	**1540**	**596**	**100**	**270**	**740**	**190**	**160**	**41**	**21**	5.0	0.5
Ethylbenzene	µg/l	**2500**	NA	**1200**	**1700**	**520**	**1200**	**530**	**584**	**273**	**915**	**2330**	**230**	**1100**	**890**	**510**	**1100**	**750**	**1200**	700	140
Methyl Tert Butyl Ether	µg/l	<29	NA	<20	<500	<13	<67	<8.7	<19	<0.29	<2.9	<15.8	<4.6	<4.6	<4.6	<9.2	<9.2	<4.6	<2.3	60	12
Naphthalene	µg/l	**570**	NA	**280**	**510**	**310**	**380**	**160**	**568**	**88.7**	**400**	**1120**	NA	NA	NA	NA	**300**	**180**	**290**	100	10
Toluene	µg/l	**9800**	NA	**8600**	**8100**	**2600**	**7500**	**1600**	**1500**	**1000**	**7980**	**4320**	**770**	**3600**	**1800**	**2000**	**1400**	**1300**	**1200**	1,000	200
1,2,4 Trimethylbenzene	µg/l	2000	NA	1300	2700	1400	1400	600	3570	583	1180	6230	1300	920	920	790	830	510	810	**	**
1,3,5 Trimethylbenzene	µg/l	<38	NA	370	760	410	430	240	1270	293	443	2030	450	320	260	270	250	150	150	**	**
Trimethylbenzene (Total)	µg/l	**2000**	NA	**1670**	**3460**	**1810**	**1830**	**840**	**4840**	**876**	**1623**	**8260**	**1750**	**1240**	**1180**	**1060**	**1080**	**660**	**960**	480	96
Xylenes	µg/l	**9200**	NA	**6500**	**8900**	**2570**	**4100**	**1600**	**7940**	**1630**	**6870**	**9370**	**2300**	**4100**	**2700**	**2300**	**2300**	**2000**	**1700**	10,000	1000
In Situ Measurements:																					
Dissolved Oxygen	mg/L	0.10	NA	NA	0.02	NA	NA	NA	0.16	0.15	0.17	0.17	0.32				0.37	NA	NA	**	**
Redox	mV	-23.5	188.4	NA	-67.8	NA	NA	NA	-136.2	-117.2	-54.0	NA	19				-83.0	NA	NA	**	**
pH	none	7.6	8.3	NA	7.0	NA	NA	NA	7.0	7.0	7.0	NA	7.0				7.0	NA	NA	**	**
Conductivity	µS	1083	753	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	**	**
Ferrous Iron	mg/L	0.4	1.0	NA	4.8	NA	NA	NA	3.2	6.0	1.4	2.4	1.8				6.0	NA	NA	**	**
Temperature	C	12.0	NA	NA	12.2	NA	NA	NA	10.4	11.0	11.0	NA	11.5				12.2	NA	NA	**	**

Notes:

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Exceedances: **BOLD** = concentration exceeds Chapter NR 140 PAL
BOX = concentration exceeds Chapter NR 140 ES

Table 2

Groundwater Quality Results - BTEX and Detects Only

Mercury Marine Plant 6

Oshkosh, Wisconsin

Project Reference #7272

		MW-12															Chapter NR 140	
ANALYTE	Date	05/24/01	08/22/01	11/15/01	05/09/02	03/10/04	06/01/04	08/25/04	12/19/05	03/31/06	07/28/06	11/09/06	04/03/07	08/28/07	05/05/08	11/26/08	ES	PAL
Volatile Organic Compounds																		
Benzene	µg/l	**16000**	FP	FP	**4000**	**3660**	**2000**	**8250**	FP	**1000**	**2200**	**900**	**330**	**580**	**780**	**430**	5.0	0.5
Ethylbenzene	µg/l	**4100**	FP	FP	**2700**	**2100**	**2080**	**2730**	FP	**1900**	**750**	**1600**	**680**	**840**	**820**	**1100**	700	140
Methyl Tert Butyl Ether	µg/l	<50	FP	FP	<67	<19	<0.29	<29	FP	<230	<46	<23	<9.2	**25** J	<9.2	<9.2	60	12
Naphthalene	µg/l	**1500**	FP	FP	**940**	**1170**	<8.0	**2410**	FP	NA	NA	NA	NA	**1100**	**640**	**770**	100	10
Toluene	µg/l	**35000**	FP	FP	**12000**	**20200**	**7700**	**23300**	FP	**8500**	**10000**	**7400**	**1400**	**2800**	**3400**	**2600**	1,000	200
1,2,4 Trimethylbenzene	µg/l	7900	FP	FP	3200	3670	3820	4180	FP	16000	4500	7800	2100	3200	1900	2400	**	**
1,3,5 Trimethylbenzene	µg/l	2300	FP	FP	830	931	1130	1150	FP	4900	1400	2400	490	880	580	710	**	**
Trimethylbenzene (Total)	µg/l	**10200**	FP	FP	**4030**	**4601**	**4950**	**5330**	FP	**20900**	**5900**	**10200**	**2590**	**4080**	**2480**	**3110**	480	96
Xylenes	µg/l	**24200**	FP	FP	**8400**	**28400**	**9470**	**16000**	FP	**23000**	**14000**	**16000**	**3800**	**6200**	**4000**	**3400**	10,000	1000
In Situ Measurements:																		
Dissolved Oxygen	mg/L	NA	0.02	FP	NA	0.15	0.17	0.17	FP	0.25				0.40	NA	NA	**	**
Redox	mV	NA	-70	FP	NA	-137.1	-112.0	-115.4	FP	-83.0				-92.0	NA	NA	**	**
pH	none	NA	7.0	FP	NA	7.0	7.0	7.0	FP	7.0				7.0	NA	NA	**	**
Conductivity	µS	NA	NA	FP	NA	NA	NA	NA	FP	NA				NA	NA	NA	**	**
Ferrous Iron	mg/L	NA	3.0	FP	NA	4.8	4.0	2.2	FP	3.4				6.4	NA	NA	**	**
Temperature	C	NA	12.3	FP	NA	9.8	10.7	11.4	FP	10.9				12.0	NA	NA	**	**

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Table 2

Groundwater Quality Results - BTEX and Detects Only

Mercury Marine Plant 6

Oshkosh, Wisconsin

Project Reference #7272

		MW-13																	Chapter NR 140	
ANALYTE	Date	05/24/01	08/22/01	11/15/01	05/09/02	03/10/04	06/01/04	08/25/04	11/17/04	02/18/05	12/19/05	03/31/06	07/28/06	11/09/06	04/03/07	08/28/07	05/05/08	11/26/08	ES	PAL
Volatile Organic Compounds																				
Benzene	µg/l	**6200**	FP	FP	**2400**	**5040**	**1540**	**14600**	**2050**	**1520**	**1930**	**1100**	**4300**	**2400**	**1000**	**5200**	**640**	**2600**	5.0	0.5
Ethylbenzene	µg/l	**490**	FP	FP	**1400**	**2600**	**1020**	**2690**	**749** G28	**1120** A-01	**1030**	**690**	**1100**	**1100**	**1200**	**1200**	**500**	**560**	700	140
Methyl Tert Butyl Ether	µg/l	<20	FP	FP	<34	<19	<0.29	<29	<29	<4.05	<6.34	<9.2	<9.2	<9.2	<2.3	**40**	<2.3	<2.3	60	12
Naphthalene	µg/l	**110**	FP	FP	**370**	**912**	**239**	**1640**	**337**	**401** A-01	**650**	NA	NA	NA	NA	**370**	**140**	**120**	100	10
Toluene	µg/l	**7400**	FP	FP	114	**19300**	**3100**	**29000**	**4870**	**4850**	**7040**	**3000**	**7900**	**3100**	**2000**	**4700**	**1100**	**1800**	1,000	200
1,2,4 Trimethylbenzene	µg/l	860	FP	FP	1600	2610	1050	2960	1450	2020	2250	970	1100	950	610	950	350	340	**	**
1,3,5 Trimethylbenzene	µg/l	260	FP	FP	430	660	286	789	<500	568	621	280	290	260	170	250	92	99	**	**
Trimethylbenzene (Total)	µg/l	**1120**	FP	FP	**2030**	**3270**	**1336**	**3749**	**1450**	**2588**	**2871**	**1250**	**1390**	**1210**	**780**	**1200**	**442**	**439**	480	96
Xylenes	µg/l	**3470**	FP	FP	**4400**	**12900**	**4170**	**14300**	**6440**	**6700**	**6380**	**3200**	**6300**	**4600**	**2000**	**5200**	**1500**	**1300**	10,000	1000
In Situ Measurements:																				
Dissolved Oxygen	mg/L	NA	0.02	FP	NA	0.17	0.17	0.14	0.14	0.16	0.17	0.30				0.36	NA	NA	**	**
Redox	mV	NA	-37.4	FP	NA	-139.9	-127.6	-117.6	-164.2	-71.2	NA	-74.0				-83.0	NA	NA	**	**
pH	none	NA	7.0	FP	NA	7.0	7.0	7.0	7.0	7.0	NA	7.0				7.0	NA	NA	**	**
Conductivity	µS	NA	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	**	**
Ferrous Iron	mg/L	NA	1.6	FP	NA	4.8	3.8	3.0	4.0	3.0	2.6	3.2				5.0	NA	NA	**	**
Temperature	C	NA	11.9	FP	NA	10.0	10.7	11.4	13.7	11.0	NA	11.0				11.5	NA	NA	**	**

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Table 2

Groundwater Quality Results - BTEX and Detects Only

Mercury Marine Plant 6

Oshkosh, Wisconsin

Project Reference #7272

		MW-14																						Chapter NR 140	
ANALYTE	Date	07/16/99	04/24/00	11/14/00	05/24/01	08/22/01	11/15/01	02/21/02	05/09/02	11/13/02	03/10/04	06/01/04	08/25/04	11/17/04	02/18/05	12/19/05	03/31/06	07/28/06	11/09/06	04/03/07	08/28/07	05/05/08	11/26/08	ES	PAL
Petroleum Volatile Organic Compounds																									
Benzene	µg/l	***2600***	***125***	***442***	***560***	***170***	***65***	***330***	***35***	***85***	***223***	***36.8***	***47.6***	***185***	***64.3***	***19.8***	***6.8***	***4.8***	***3.2***	***1.3***	***0.79[J]***	***1.5***	<0.25	5.0	0.5
Ethylbenzene	µg/l	***880***	6.88	65.6	120	***150***	<2.1	100	2.7	19	134	42.6	66.8	69.5[G28]	27[A-01]	<5.0	0.28	3.2	<0.22	<0.22	<0.22	<0.22	<0.22	700	140
Methyl Tert Butyl Ether	µg/l	<14	<3.0	<1.4	<2.0	<100	<3.4	<100	<0.67	<0.87	<9.52	<0.29	<1.45	<0.29	<0.405	<0.317	<0.23	<0.23	<0.23	<3.4[RL1]	<6.9[RL3]	<4.0[RL3]	<0.23	60	12
Naphthalene	µg/l	***190***	<8.0	***39.2***	***27***	***240***	<2.9	<100	<0.59	1.1	***37***	***27.7***	***45.5***	<8.0	<8.0[A-01]	<8.0	NA	NA	NA	NA	<0.5	<0.5	<0.5	100	10
Toluene	µg/l	***1600***	52.4	12.6	26	38	<2.3	***270***	0.56	5.0	135	13	12	76.5	15.9[A-01]	<5.0	0.31	0.36	<0.14	<0.11	<0.11	<0.11	0.35	1,000	200
1,2,4 Trimethylbenzene	µg/l	960	9.9	87.3	110	1100	4.5	200	6.1	18	366	161	297	120	44.6[G14]	<5.00	<0.25	0.35[J]	<0.25	<0.25	<0.25	<0.25	<0.25	**	**
1,3,5 Trimethylbenzene	µg/l	<19	5.77	38.2	46	310	3.5	72	3.9	2.7	137	72.6	123	49.7	9.61[G14]	6.04	<0.19	0.23[J]	<0.19	<0.19	<0.19	<0.19	<0.19	**	**
Trimethylbenzene (Total)	µg/l	***960***	15.67	***125.5***	***156***	***1410***	8.0	***272***	10	20.7	***503***	***233.6***	***420***	***169.7***	54.21	<11.04	<0.25	0.58	<0.25	<0.44	<0.25	<0.25	<0.25	480	96
Xylenes	µg/l	***2840***	36.1	73.36	126.5	860	<9.7	540	3.9	23.8	483	123	247	332	70.4[A-01]	15.2	0.97	4.0	0.69[J]	<0.39	<0.39	<0.39	<0.39	10,000	1000
In Situ Measurements:																									
Dissolved Oxygen	mg/L	0.10	NA	NA	NA	0.02	NA	0.15	NA	NA	0.17	0.18	0.17	0.14	0.19	0.17	0.49				0.39	NA	NA	**	**
Redox	mV	-13.2	NA	NA	NA	-23.6	NA	61.4	NA	NA	-39.4	-106.6	-94.0	-153	-47.5	NA	-46.0				26.0	NA	NA	**	**
pH	none	7.7	NA	NA	NA	7.0	NA	7.0	NA	NA	7.0	7.0	7.0	7.0	7.0	NA	7.0				7.0	NA	NA	**	**
Conductivity	µS	938	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	**	**
Ferrous Iron	mg/L	0.2	NA	NA	NA	5.4	NA	3.4	NA	NA	3.2	3.2	1.0	4.0	4.0	4.2	2.8				2.2	NA	NA	**	**
Temperature	C	11.8	NA	NA	NA	12.1	NA	12.6	NA	NA	10.4	10.2	11.1	13.0	10.2	NA	11.5				11.9	NA	NA	**	**

Notes:

A-01 One or more of the CCC recoveries were above the method specified acceptance criteria, however, the recovery of this analyte in the check standard is within 20% of its known value.
J Results reported between Method Detection Limit and Limit of Quantitation are less certain than results at or above the LOQ.
G14 The recovery of this analyte in the check standard is above the method specified acceptance criteria.
G20 This analyte was initially analyzed within holdtime; however, reanalysis at a dilution was performed outside the method specified holdtime.
G28 The recovery of this Calibration Check Compound (CCC) in the check standard is above the method specified acceptance criteria.
RL1 The reporting limit was raised due to sample matrix effects.
RL3 Reporting limit raised due to high concentrations of non-target analytes.
Results at MW-1, MW-4, MW-5, and MW-14 during the 2/21/2002 sampling contained at "D" on the laboratory analytical report, indicating a dilution
µg/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million)
ng/L = Nanograms per liter
mV = millivolts
S.U. = standard pH unit
Degree C = Degree Celsius
NA = Not Analyzed ** = No Standard
NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
Exceedances: **BOLD** = concentration exceeds Chapter NR 140 PAL
BOX = concentration exceeds Chapter NR 140 ES

Table 3
Groundwater Elevations
Mercury Marine Plant 6
Oshkosh, Wisconsin
Project Reference #7272

Monitoring Well Identification	Ground Surface Elevation (feet MSL)	Top of Casing Elevation (feet MSL)	Depth to Product (feet from TOC)	Product Thickness (feet)	Depth to Groundwater (feet from TOC)	Corrected Depth to Groundwater (feet from TOC)	Groundwater Elevation (feet MSL)	Amount of Product Removed (gallons)	Date
MW-2**	768.02	767.57			18.70	18.70	748.87		07/09/98*
					21.64	21.64	745.93		08/25/98*
			20.04	1.90	21.94	20.57	747.00		11/10/98
			20.09	1.79	21.88	20.59	746.98	3.00	12/22/98
			19.99	1.76	21.75	20.48	747.09		12/28/98
			20.13	1.61	21.74	20.58	746.99	1.50	01/07/99
			20.29	2.12	22.41	20.88	746.69	1.25	01/20/99
			20.27	2.03	22.3	20.84	746.73	1.00	01/25/99
			20.09	2.01	22.1	20.65	746.92	1.00	02/03/99
			20.02	1.58	21.6	20.46	747.11	1.00	02/09/99
					17.76	17.76	749.81		07/12/99
					17.85	17.85	749.72	0.00	07/16/99
					17.91	17.91	749.66	1.00	08/06/99
			18.85	0.10	18.95	18.88	748.69	0.00	09/08/99
			19.51	1.65	21.16	19.97	747.60	0.25	10/12/99
			19.96	1.03	20.99	20.25	747.32	1.00	04/17/00
					16.05	16.05	751.52		05/24/01
					19.05	19.05	748.52		08/22/01
			19.98	1.00	20.98	20.26	747.31	0.00	11/15/01
					18.93	18.93	748.64		03/10/04
					15.49	15.49	752.08		06/01/04
					18.87	18.87	748.70		08/25/04
					21.25	21.25	746.32		11/17/04
					19.76	19.76	747.81		02/18/05
					19.87	19.87	747.70		03/04/05
		772.08			23.23	23.23	748.85		03/31/06
					24.16	24.16	747.92		07/28/06
					25.53	25.53	746.55		11/09/06
					24.17	24.17	747.91		04/03/07
					25.11	25.11	746.97		08/28/07
					21.39	21.39	750.69		04/14/08
					20.40	20.40	751.68		05/05/08
					25.23	25.23	746.85		11/26/08
MW-3	768.35	767.84			18.97	18.97	748.87		07/09/98
					20.35	20.35	747.49		08/25/98
					20.75	20.75	747.09		11/10/98
					20.69	20.69	747.15		12/28/98
					18.02	18.02	749.82		07/16/99
					20.34	20.34	747.50		04/24/00
					19.12	19.12	748.72		11/14/00
					16.60	16.60	751.24		05/24/01
					19.60	19.60	748.24		08/22/01
					20.47	20.47	747.37		11/15/01
					20.65	20.65	747.19		02/21/02
					16.82	16.82	751.02		05/09/02
					20.01	20.01	747.83		11/13/02
					19.53	19.53	748.31		03/10/04
					16.07	16.07	751.77		06/01/04
					19.42	19.42	748.42		08/25/04
					21.27	21.27	746.57		11/17/04
					20.41	20.41	747.43		02/18/05
					20.35	20.35	747.49		03/04/05
					19.16	19.16	748.68		03/31/06
					19.94	19.94	747.90		07/28/06
					21.53	21.53	746.31		11/09/06
					19.97	19.97	747.87		04/03/07
					20.87	20.87	746.97		08/28/07
					17.16	17.16	750.68		04/14/08
					16.06	16.06	751.78		05/05/08
					20.97	20.97	746.87		11/26/08

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Monitoring Well Identification	Ground Surface Elevation (feet MSL)	Top of Casing Elevation (feet MSL)	Depth to Product (feet from TOC)	Product Thickness (feet)	Depth to Groundwater (feet from TOC)	Corrected Depth to Groundwater (feet from TOC)	Groundwater Elevation (feet MSL)	Amount of Product Removed (gallons)	Date
MW-5	766.9	766.4			17.67	17.67	748.73		07/09/98
					19.04	19.04	747.36		08/25/98
					19.35	19.35	747.05		11/10/98
					19.28	19.28	747.12		12/28/98
					16.81	16.81	749.59		07/16/99
					18.90	18.90	747.50		04/24/00
					17.78	17.78	748.62		11/14/00
					15.39	15.39	751.01		05/24/01
					18.33	18.33	748.07		08/22/01
					19.17	19.17	747.23		11/15/01
					19.26	19.26	747.14		02/21/02
					16.08	16.08	750.32		05/09/02
					18.77	18.77	747.63		11/13/02
					18.13	18.13	748.27		03/10/04
					14.70	14.70	751.70		06/01/04
					18.23	18.23	748.17		08/25/04
					19.96	19.96	746.44		11/17/04
					19.05	19.05	747.35		02/18/05
					17.80	18.80	747.60		03/31/06
					18.71	18.71	747.69		07/28/06
					20.17	20.17	746.23		11/09/06
					18.46	18.46	747.94		04/03/07
					19.49	19.49	746.91		08/28/07
					15.77	15.77	750.63		04/14/08
					14.85	14.85	751.55		05/05/08
					19.64	19.64	746.76		11/26/08
MW-11	768.17	767.78			17.95	17.95	749.83		07/12/99
					18.03	18.03	749.75		07/16/99
					18.08	18.08	749.70		08/06/99
			19.02	0.18	19.20	19.07	748.71	0.00	09/08/99
			19.9	0.39	20.29	20.01	747.77	0.00	10/12/99
			20.28	0.14	20.42	20.32	747.46	0.25	04/17/00
					16.13	16.13	751.65		05/24/01
					19.17	19.17	748.61		08/22/01
					20.02	20.02	747.76		11/15/01
					16.90	16.90	750.88		05/09/02
					19.64	19.64	748.14		11/13/02
					19.03	19.03	748.75		03/10/04
					15.55	15.55	752.23		06/01/04
					18.93	18.93	748.85		08/25/04
					20.80	20.80	746.98		11/17/04
		771.03			22.22	22.22	748.81		03/31/06
					21.91	21.91	749.12		07/28/06
					NM	NM	--		11/09/06
					22.98	22.98	748.05		04/03/07
					24.03	24.03	747.00		08/28/07
					20.27	20.27	750.76		04/14/08
					19.26	19.26	751.77		05/05/08
					24.14	24.14	746.89		11/26/08

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MW-12 **	768.05	767.19	17.34	0.14	17.48	17.38	749.81	0.00	07/12/99
					17.81	17.81	749.38		07/16/99
					17.84	17.84	749.35		08/06/99
			18.25	1.23	19.48	18.59	748.60	0.00	09/08/99
			19.16	1.46	20.62	19.57	747.62	0.25	10/12/99
			19.53	1.16	20.69	19.85	747.34	1.00	04/17/00
					16.02	16.02	751.17		05/24/01
					19.05	19.05	748.14		08/22/01
			20.39	0.5	20.89	20.53	746.66	0.00	11/15/01
					16.78	16.78	750.41		05/09/02
					20.02	20.02	747.17		11/13/02
					18.87	18.87	748.32		03/10/04
					15.43	15.43	751.76		06/01/04
					18.84	18.84	748.35		08/25/04
					21.30	21.30	745.89		11/17/04
		772.44			23.66	23.66	748.78		03/31/06
					23.40	23.40	749.04		07/28/06
					25.24	25.24	747.20		11/09/06
					24.35	24.35	748.09		04/03/07
					25.46	25.46	746.98		08/28/07
					21.70	21.70	750.74		04/14/08
					20.73	20.73	751.71		05/05/08
					25.57	25.57	746.87		11/26/08
MW-13**	767.69	767.32			17.54	17.54	749.78		07/12/99
					17.73	17.73	749.59		07/16/99
					17.98	17.98	749.34		08/06/99
			18.47	0.91	19.38	18.72	748.60	0.00	09/08/99
			19.67	1.22	20.89	20.01	747.31	0.75	04/17/00
					15.75	15.75	751.57		05/24/01
					19.08	19.08	748.24		08/22/01
			19.59	0.90	20.49	19.84	747.48	0.00	11/15/01
					20.66	20.66	746.66		02/21/02
					16.49	16.49	750.83		05/09/02
					19.80	19.80	747.52		11/13/02
					17.59	17.59	749.73		03/10/04
					15.17	15.17	752.15		06/01/04
					18.55	18.55	748.77		08/25/04
					20.34	20.34	746.98		11/17/04
					19.42	19.42	747.90		02/18/05
					20.10	20.10	747.22		03/04/05
		769.01			20.28	20.28	748.73		03/31/06
					18.95	18.95	750.06		07/28/06
					20.39	20.39	748.62		11/09/06
					18.97	18.97	750.04		04/03/07
		767.32			19.89	19.89	747.43		08/28/07
					16.18	16.18	751.14		04/14/08
					17.16	17.16	750.16		05/05/08
					20.03	20.03	747.29		11/26/08

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MW-14	768.38	767.96			18.13	18.13	749.83		07/12/99
					18.21	18.21	749.75		07/16/99
					18.28	18.28	749.68		08/06/99
					20.40	20.40	747.56		04/24/00
					19.25	19.25	748.71		11/14/00
					16.78	16.78	751.18		05/24/01
					19.75	19.75	748.21		08/22/01
					20.63	20.63	747.33		11/15/01
					21.73	21.73	746.23		02/21/02
					17.53	17.53	750.43		05/09/02
					20.25	20.25	747.71		11/13/02
					19.05	19.05	748.91		03/10/04
					16.23	16.23	751.73		06/01/04
					19.58	19.58	748.38		08/25/04
					21.40	21.40	746.56		11/17/04
					20.53	20.53	747.43		02/18/05
					20.49	20.49	747.47		03/04/05
		769.94			21.21	21.21	748.73		03/31/06
					20.08	20.08	749.86		07/28/06
					21.42	21.42	748.52		11/09/06
					20.06	20.06	749.88		04/03/07
		767.96			20.99	20.99	746.97		08/28/07
					17.27	17.27	750.69		04/14/08
					16.21	16.21	751.75		05/05/08
					21.10	21.10	746.86		11/26/08

Notes:
feet MSL = feet above Mean Sea Level
feet from TOC = feet below top of casing
NM = Not measured

* = Elevations do not account for free-phase product in well.
** = Groundwater elevations reported for MW-2 account for product thickness.