

Appendix A
Permit Applications Forms

A-1

WPDES General Permit Application Form

GENERAL PERMIT REQUEST FOR COVERAGE

Dredging Operations

WPDES Permit No. WI-0046558-04-0

State of Wisconsin
Department of Natural Resources

Rev. 03/30/2006

For Department Use Only
Stamp Date Received

FID #:

The information requested on this form will be used by the Department of Natural Resources to determine if the proposed discharge of carriage and/or interstitial water from your dredging operation requires coverage under a Wisconsin Pollutant Discharge Elimination System (WPDES) permit, and qualifies for general permit WI-0046558. The discharge of wastewater from a dredging operation, which has not obtained coverage under the general permit or other applicable WPDES permit, may result in forfeitures up to \$10,000 per day, pursuant to s. 283.91(2), Stats. The Department may request additional information regarding your dredging operation to assess the eligibility for coverage under a WPDES permit.

| SECTION I: DREDGING INFORMATION | | | |
|--|---|---------------------------------------|--|
| Project Name Nagawicka Lake Restoration | Contact Tom Hafner, P.E. | Title Director of Public Works | |
| Location: County, Township, Range, Section, ¼ Section Waukesha, T 17N R 18E Section 4, 8, 9 & 17 | Phone # (262) 646-6225 | Fax # (262) 646-2564 | |
| Latitude / Longitude (if available) Approx. 43°, 4' N/ 88° 23' W | Email thafner@ci.delafield.wi.us | | |
| Site Map: Attach a site map, such as a USGS topographic map, showing the location of the proposed dredging project, the discharge site for groundwater discharges, and/or receiving water for surface water discharges. | | | |
| Project Description: Attach a brief description of the proposed dredging project, including a description of the site, quantity of sediment to be removed, wastewater treatment facilities and water treatment additives if used, proposed disposal of the sediment, and project schedule. | | | |

| SECTION II: MAILING ADDRESS INFORMATION (Company/Owner) | | | |
|---|---|---------------------------------------|--|
| Company/Owner City of Delafield | Company Contact Tom Hafner, P.E. | Title Director of Public Works | |
| Mailing Address: P.O. Box, Street, or Route 500 Genesee St. | Phone # same as above | Fax # same as above | |
| City, State, Zip Code Delafield, WI 53018 | Email same as above | | |

Complete SECTION III for those outfalls that are identified as surface or groundwater discharges in SECTION IV question 1, using the characterization data required in SECTION 4 question 4.

| SECTION III: DISCHARGE CHARACTERIZATION | | | | | | |
|--|-----------------|---|--|---|--|------------------------------------|
| Type of Wastewater (check all that apply): | Outfall Number | Flow Daily Average (gallons per day) | Contaminants of Concern (Exceeds the CBSQG TEC) | Consensus Based Sediment Quality Guidelines TEC | Sediment Concentration (dry weight) | Elutriate Concentration |
| <input checked="" type="checkbox"/> Carriage Water (Water portion from hydraulic dredging) | # 001 | 1.54m | See Table 1 - WPDES | | | See Table 2 & 3 - WPDES |
| | # | 1.54m | | | | |
| <input type="checkbox"/> Interstitial Water (Also known as pore water. Water from mechanical dredging dewatering) | # | | | | | |
| <input type="checkbox"/> Other (describe type) | # | | | | | |

Attachment additional sheet for Section III if more space is needed.

| SECTION IV: ELIGIBILITY CHECKLIST |
|--|
|--|

SECTION IV: ELIGIBILITY CHECKLIST

1. What is the receiving water for your dredging process wastewater discharge? If your facility has more than one outfall (an outfall is an individual discharge point, like a pipe, channel, or seepage pond, that wastewater enters prior to discharging to a receiving water), indicate in the space provided which outfalls go to groundwater and which go to surface waters. (check all that apply)

Groundwater (this includes infiltration of wastewater through the soil via irrigation, drain fields, ditches, and absorption ponds).

Outfall #(s): _____

Wetland (note whether you believe the wetland is natural, or artificial).

Surface Water (this includes creeks, streams, rivers, and lakes and any ditches, storm sewers, and pipes that convey wastewater to a creek, stream, river, and lake).

Outfall #(s): 001 (See Figure 1 – WPDES)

Name of the surface water your discharge enters? Nagawicka Lake

How far is it from the point where discharge leaves your dredging project until it reaches the surface water (include the length travels through storm sewers or drainage ditches)? Check one.

- Less than 1000 feet
- Between 1000 and 5000 feet **From dewatering site**
- Greater than 5000 feet

Sanitary Sewer (discharge to a Publicly Owned Treatment Works). A septic system is not considered a sanitary sewer. If all discharges from your facility go to a sanitary sewer, you do not require regulation under a WPDES discharge permit. Therefore, skip the rest of the checklist and sign page 3. We will remove you from our tracking system. If at some point in the future operations at your facility result in a discharge, you will need to inform the Department. If only some or no discharges from your facility go to the sanitary sewer, identify the receiving water for the other discharges above.

2. To the fullest extent of your knowledge, will the proposed discharge contain any of the substances listed below, or other substances that could be harmful to human health, animals, plant, or aquatic life? **See Tables 1, 2, & 3**

- | | | | |
|---|--------------------------------------|------------------------------------|---|
| <input type="checkbox"/> PCB | <input type="checkbox"/> Lindane | <input type="checkbox"/> Copper | <input type="checkbox"/> Selenium |
| <input type="checkbox"/> Dioxin and Furan | <input type="checkbox"/> Toxaphene | <input type="checkbox"/> Cyanide | <input type="checkbox"/> Zinc |
| <input type="checkbox"/> Aldrin | <input type="checkbox"/> DDT and DDE | <input type="checkbox"/> Iron | <input type="checkbox"/> Ammonia Nitrogen |
| <input type="checkbox"/> Dieldrin | <input type="checkbox"/> Arsenic | <input type="checkbox"/> Lead | <input type="checkbox"/> Nitrogen (total) |
| <input type="checkbox"/> Chlordane | <input type="checkbox"/> Barium | <input type="checkbox"/> Manganese | <input type="checkbox"/> Oil and Grease |
| <input type="checkbox"/> Endrin | <input type="checkbox"/> Cadmium | <input type="checkbox"/> Mercury | <input type="checkbox"/> Phosphorus |
| <input type="checkbox"/> Heptachlor | <input type="checkbox"/> Chromium | <input type="checkbox"/> Nickel | <input type="checkbox"/> Other _____ |

If any of the above substances are checked, and the concentration is at a level of concern, monitoring and a limit will apply. You may also be required to obtain an individual WPDES permit. Contact the Department to obtain an application for an individual WPDES discharge permit.

For Department Use Only:

- Eligible
- Ineligible
- ERW
- ORW

3. Are water treatment additives used? Additives include polymers to add in the flocculation of suspended solids in a wastewater treatment system.

- No. Continue on to question #4.
- Yes. For each additive submit the following information.
 - a. Commercial name of the additive and the Material Safety Data Sheet..
 - b. Additive Dosage concentration.
 - c. Anticipated discharge concentration.
 - d. Proposed usage frequency (continuous or slug dose).
 - e. Aquatic toxicity information (surface water discharges only).

The additive information above should be available from the additive supplier. Aquatic toxicity data on the whole product must include at least one 48-hour LC₅₀ or EC₅₀ for Daphnia magna or Certodaphnia dubia, and one 96-hour LC₅₀ or EC₅₀ for fathead minnow, rainbow trout, or bluegill.

WDNR will approve polymers, provided by the contractor, prior to dredging.

For Department Use Only

- Additive Approved.
- Follow-up Necessary

4. Has an analysis been performed to characterize the sediment to be dredged?

As part of the ch. 30 dredging permit, sediment analysis and elutriate testing must be conducted in accordance with ch. NR 347, Wis. Adm. Code. This data is used in determining permit eligibility and the monitoring requirements under the WPDES permit. The Sediment must be characterized according to ch. NR 347, Wis. Adm. Code in the absence of any documentation that it's uncontaminated.

- No. A permit may not be issued unless sediment characterization information is provided.
 3. Yes. Attached a copy of the results of the analysis to this form. **See Tables 1, 2, & 3**

If the sediment is believed to be "uncontaminated", and no sediment characterization data is available, describe below the basis for this determination (attach additional information as necessary). Only in rare situations would the Department accept a determination of "uncontaminated" without any actual sediment analysis data (for example, sediment from a water body known to have high water quality and no history of wastewater discharges or other activity that could contaminate the sediment).

5. Will dredged materials be disposed of in Lake Michigan or Lake Superior?

- No.
 Yes. If yes, indicate below which method is proposed for disposal.

Any dredged material proposed for beach nourishment or unconfined disposal in the Great Lakes must comply with the sediment quality identified in Table 5.2 of the WPDES general permit. Documentation must be submitted to demonstrate compliance with the maximum concentrations.

- Beach Nourishment
 Unconfined Disposal

SECTION V: SIGNATORY REQUIREMENTS

| | |
|---|----------------------------------|
| Signature of person completing the form, attesting to the accuracy and completeness of the statements made. | Date Signed |
| | Phone # (920) 496-6798 |
| Typed or Printed Name and Title. Consultant Name (if applicable). Gerald J. Berg, P.E., P.H | Fax # (920) 497-8516 |
| | Email gberg@foth.com |
| This form must be signed by the official representative of the permitted facility who is: the owner, the sole proprietor for a sole proprietorship, a general partner for a partnership, a ranking elected official or other duly authorized representative for a unit of government, a manager for a limited liability company, or a responsible officer of at least the level of manager, having overall responsibility for the operation of the facility for a corporation. If this form is not signed, or is found to be incomplete, it will be returned. | |
| Signature of authorized representative attesting to the accuracy and completeness of the statements made. | Date Signed |
| | Phone # (262) 646-6225 |
| Typed or Printed Name and Title Tom Hafner, P.E. | Fax # (262) 646-2564 |
| | Email thafner@ci.delafield.wi.us |

Mail to: Wisconsin Department of Natural Resources
 Regional Wastewater Permit Coordinator

**Table 1 - WPDES
Nagawicka Lake Restoration
City of Delafield**

Summary of Analytical Results Relative to Effect-Based Levels

| Sample Location | Metals | | | | | PAH's | | | | | | | | | Pesticides | | |
|---|--------------------|--------------------|-------------------|-----------------|-----------------|-----------------------------------|-------------------------------|-------------------------------------|-------------------------------------|---------------------|-------------------------|-------------------------|-------------------|--------------------------------------|---------------------|-------------------|-------------------|
| | Arsenic (mg/kg) | Cadmium (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Zinc (mg/kg) | Benzo(a) anthracene (mg/kg) | Benzo(a)p yrene (mg/kg) | Benzo(b) fluoranthene (mg/kg) | Benzo(g,h,i) perylene (mg/kg) | Chrysene (mg/kg) | Fluoranthene (mg/kg) | Phenanthrene (mg/kg) | Pyrene (mg/kg) | Dibenzo(a,h)a nthalene (mg/kg) | 4,4'-DDE (mg/kg) | Aldrin (mg/kg) | Endrin (mg/kg) |
| City Samples | | | | | | | | | | | | | | | | | |
| St. John's Bay - Site V-1 | -- | -- | 89.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| St. John's Bay - Site V-2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.0079 | -- | -- | -- |
| Zastrow's Bay - Site V-6 | -- | -- | 60.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.0073 | -- | -- | -- |
| Zastrow's Bay - Site V-7 | 11.1 | -- | 68.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.7 | 0.012 | 0.051 | -- | -- |
| Northwest Channels - Site V-5 | -- | -- | -- | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.012 | 0.044 | -- | -- |
| Northwest Channels - Site V-8 | 15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.011 | 0.035 | 0.012 | -- |
| Northwest Channels - Site V-9 | -- | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.023 | 0.059 | -- | -- |
| Private Dredge Samples | | | | | | | | | | | | | | | | | |
| Northeast Channels - Site P-1 Gary Pratt (West) | 12.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Northeast Channels - Site P-1 Gary Pratt (Midpoint) | 12.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Northeast Channels - Site P-7 Nagawicka Shores Condos | -- | 1.56 | -- | 68.6 | 192 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Zastrow's Bay - Site P-2 Greg Farrow | 25.90 | -- | 75.90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Northwest Channels -Site P-8 Nagashota Shores Association (#3 (1997)) | 15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Supplemental Sediment Samples | | | | | | | | | | | | | | | | | |
| Bark River Inlet - BRI(1-3)A* | -- | -- | -- | -- | -- | 0.174 | 0.304 | 0.318 | 0.279 | 0.311 | 0.861 | 0.32 | 0.269 | -- | -- | -- | -- |
| Bark River Inlet - BRI(1-3)B** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| WDNR Consensus-Based Effect Levels | | | | | | | | | | | | | | | | | |
| TEC = Threshold Effect Concentration | 9.8 | 0.99 | 32 | 36 | 120 | 0.108 | 0.15 | 0.24 | 0.17 | 0.166 | 0.423 | 0.204 | 0.195 | 0.033 | 0.0032 | 0.002 | 0.0022 |
| MEC = Midpoint Effect Concentration | 21.4 | 3 | 91 | 83 | 290 | 0.579 | 0.8 | 6.82 | 1.685 | 0.728 | 1.327 | 0.687 | 0.858 | 0.084 | 0.017 | 0.041 | 0.1046 |
| PEC = Probable Effect Concentration | 33 | 5 | 150 | 130 | 460 | 1.05 | 1.45 | 13.4 | 3.2 | 1.29 | 2.23 | 1.17 | 1.52 | 0.135 | 0.031 | 0.08 | 0.207 |

Notes:

*BRI(1-3)A was a composite of the top 6.75-12.75 inches of 6 cores from three areas within the Bark River Inlet.
 **BRI(1-3)B was a composite of the bottom 6.75-16.25 inches of 6 cores from three areas within the Bark River Inlet.
 "--" Indicates data was below TEC levels

Prepared by: TMK1
 Checked by: JOS1

**Table 2 - WPDES
Analytical Laboratory Data
Elutriate Samples (2006)**

Nagawicka Lake Restoration
City of Delafield

| Analytical Parameter | Centifuged | Raw |
|----------------------------------|------------|--------|
| Pesticides | | |
| Aldrin (ug/L) | <0.048 | <0.50 |
| Endrin (ug/L) | <0.048 | <0.50 |
| Chlordane-alpha (gama) (ug/L) | <0.048 | <0.50 |
| 4,4'-DDE (ug/L) | <0.048 | <0.50 |
| 4,4'-DDT (ug/L) | <0.048 | <0.50 |
| Metals | | |
| Arsenic (ug/L) | 24.1 | 808 |
| Cadmium (ug/L) | <5.0 | 12.5 B |
| Chromium (ug/L) | 20.1 | 1410 |
| Copper (ug/L) | 42.1 | 2800 |
| Lead (ug/L) | 27.6 | 3420 |
| Manganese (ug/L) | 522 | 44400 |
| Mercury (ug/L) | 0.084 B | 21.3 |
| Nickel (ug/L) | 14.2 B | 1060 |
| Zinc (ug/L) | 113 | 9430 C |
| Inorganics - Nutrients | | |
| Nitrate-Nitrite (mg/L) | <0.10 | <0.10 |
| Ammonia Nitrogen (mg/L) | 12.2 J | 38.9 C |
| Total Phosphorus (mg/L) | 0.59 | 75.9 |
| Total K-Nitrogen (mg/L) | 18.8 | 643 |
| Total Suspended Solids (mg/L) | 170 | 143000 |
| pH (std units) | 7.8 | 7.5 |
| % solids (%) | NA | 21.5 |
| Organics | | |
| Total Organic Carbon (mg/L) | 14.2 | 44.1 |
| Biochemical Oxygen Demand (mg/L) | 13.1 | 347 |
| 1-Methylnaphthalene (ug/L) | <0.20 | 0.6 J |
| 2-Methylnaphthalene (ug/L) | 0.057 J | 1.3 |
| Acenaphthene (ug/L) | 0.11 J | 1.2 |
| Acenaphthylene (ug/L) | <0.20 | 0.49 J |
| Anthracene (ug/L) | <0.20 | 1.3 |
| Benzo(a)anthracene (ug/L) | 0.028 J | 6.5 |
| Benzo(a)pyrene (ug/L) | <0.20 | 4.8 |
| Benzo(b)fluoranthene (ug/L) | <0.20 | 9.1 |
| Benzo(g,h,i)perylene (ug/L) | <0.20 | 7.9 |
| Benzo(k)fluoranthene (ug/L) | 0.026 | 3.6 |
| Chrysene (ug/L) | 0.036 J | 9.1 |
| Dibenzo(a,h)anthracene (ug/L) | <0.20 | 1.6 |
| Fluoranthene (ug/L) | 0.073 J | 28 |
| Fluorene (ug/L) | 0.13 J | 1.9 |
| Indeno(1,2,3-cd)pyrene (ug/L) | <0.20 | 6.5 |
| Naphthalene (ug/L) | 0.084 J | 1.9 |
| Phenanthrene (ug/L) | 0.44 | 10 |
| Pyrene (ug/L) | 0.06 J | 13 |

J: Estimated result. Result less than the reporting limit.

B: Estimated result. Result less than the reporting limit.

C: Method blank contamination. The associated method blank contains the target analyte at a

Note: Sample was composed of a composit of sediment samples from 7 locations. Locations shown on Figure 1-WPDES

**Table 3
2007 Elutriate Test Results**

Nagawicka Lake Sediment Weight Percent Solids and Solids Concentrations

| Sediment Sample | Weight Percent Solids | Solids Concentrations (mg/l) |
|------------------------|------------------------------|-------------------------------------|
| Bark River Inlet | 39.7 | 528,000 |
| Northeast Channels | 12.3 | 133,000 |
| Northwest Channels | 14.4 | 158,000 |
| West Channels | 15.4 | 170,000 |
| Mercury Composite | 22.2 | 257,000 |

Nagawicka Lake Effluent Elutriate Test Wet Sediment Volumes

| Sediment Sample | Test Volume (L) |
|------------------------|------------------------|
| Bark River Inlet | 0.598 |
| Northeast Channels | 2.366 |
| Northwest Channels | 2.003 |
| West Channels | 1.855 |
| Mercury Composite | 1.228 |

WDOT Approved Soil Stabilizers

| Product Name | Manufacturer |
|-------------------------------|------------------------------------|
| CF 2000 | Construction Fabrics and Materials |
| Natural Earth PolyStable Plus | Earth & Road |
| PAM 12 | ENCAP |
| PolyPlus | Polymer Plus , LLC |
| TRIPAM | Soil Net |
| 35 | Soil Net |
| 50 | Soil Net |
| B100 | Agrecol |

Nagawicka Lake Elutriate Test Results—Concentrations of Main Analytes

| Analyte | Location of Sample | | | | |
|--------------------------------|--------------------|------------------|------------------|-----------------|-----------------|
| | BRI ¹ | NEC ² | NWC ³ | WC ⁴ | LW ⁵ |
| Units | mg/L | | | | |
| Total Suspended Solids | 14 | 6.1 | 2.8 | 5.6 | 8.0 |
| Total Kjeldahl Nitrogen | 9.8 | 7.2 | 4.7 | 3.4 | 0.69 |
| Ammonia | 9.1 | 6.3 | 4.2 | 3.2 | <0.50 |
| Units | µg/L | | | | |
| Arsenic-Total ⁶ | 1.3 | 9.8 | 18 | 4.3 | 0.18 |
| Arsenic-Dissolved ⁶ | 1.6 | 9.2 | 18 | 3.4 | 0.43 |
| Copper-Total | 0.25 | 0.21 | 0.33 | 0.21 | 0.26 |
| Copper-Dissolved ⁷ | 0.28 | 0.53 | 0.49 | 2.4 | 0.58 |

¹ Bark River Inlet

² Northeast Channels

³ Northwest Channels

⁴ West Channels

⁵ Lake Water-composite of water from above locations

⁶ Data shown for dissolved and total arsenic presents an anomaly, with some dissolved fractions having higher concentrations than the total. This may be reflective of sampling and analytical method variation. It also reflects minimal difference between the dissolved fraction and the total.

⁷ WDNR did not request dissolved copper. Data shown for dissolved and total copper presents an anomaly, with dissolved fractions having higher concentrations than the total. This may be reflective of sampling and analytical method variation. The dissolved copper value for the West Channels sample is an outlier; the analytical laboratory is repeating the analysis of this sample.

Nagawicka Lake Elutriate Test Results—Concentration of Mercury

| Sample | Mercury Concentration (ng/L) |
|-----------------------------------|------------------------------|
| Elutriate Supernatant | 1.19 |
| Elutriate Supernatant (duplicate) | 1.32 |
| Nagawicka Lake Water | 0.654 |
| Elutriate Field Blank | 0.299 |
| Lake Water Field Blank | 0.303 |

Prepared by: JBM

Checked by: GLB1

A-2

Dredge Permit Application Form

PLEASE COMPLETE BOTH PAGES 1 & 2 OF THIS APPLICATION. PRINT OR TYPE. The Department requires use of this form for any application filed pursuant to Chapter 30, Wis. Stats. The Department will not consider your application unless you complete and submit this application form. Personally identifiable information on this form will not be used for any other purpose, but it must be made available to requesters under Wisconsin's open records law [s. 19.31-19.39, Wis. Stats.].

| | |
|---|--|
| 1. Applicant (Individual or corporate name) City of Delafield <hr/> Address 500 Genesee St. <hr/> City, State, Zip Code Delafield, WI 53018 <hr/> Telephone No. (Include area code) | 2. Agent/Contractor (firm name) Tom Hafner, P.E. <hr/> Address 500 Genesee St. <hr/> City, State, Zip Code Delafield, WI 53018 <hr/> Telephone No. (Include area code) (262) 646-6225 |
| Fire Number <hr/> Tax Parcel Number | |

3. If applicant is not owner of the property where the proposed activity will be conducted, provide name and address of owner and include letter of authorization from owner. Owner must be the applicant or co-applicant for structure, diversion and stream realignment activities.

| | | |
|--------------|---------|-----------------------|
| Owner's Name | Address | City, State, Zip Code |
| NA | | |

| | |
|--|--|
| 4. Is the applicant a business? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, is the permit or approval you are applying for necessary for you to conduct this business in the State of Wisconsin? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, please explain why (attach additional sheets if necessary): | 5. Project Location Address _____ Village/City/Town <u>City of Delafield</u> Fire Number _____ Tax Parcel Number _____ Waterway <u>Nagawicka Lake</u> County <u>Waukesha Co.</u> Govt. Lot _____ OR _____ 1/4, _____ 1/4, of Section <u>5, 8, 9, 17</u> Township <u>17</u> North, Range <u>18</u> (East) (West) |
|--|--|

6. Adjoining Riparian (Neighboring Waterfront Property Owner) Information

| | | |
|--|---------|-----------------------|
| Name of Riparian #1 | Address | City, State, Zip Code |
| See Solution (See Figures 5 through 13 of the application) | | |
| Name of Riparian #2 | Address | City, State, Zip Code |

7. Project Information (Attach additional sheets if necessary)

(a) Describe proposed activity (include how this project will be constructed)
Dredging of Nagawicka Lake Cu. Yards of Nagawicka Lake

(b) Purpose, need and intended use of project
Restoration of Nagawicka Lake with enhanced public access

(c) I have applied for or received permits from the following agencies: (Check all that apply)
 Municipal County Wis. DNR Corps of Engineers In Progress

(d) Date activity will begin if permit is issued 6/09; be completed: 10/11.

(e) Is any portion of the requested project now complete? Yes No
 If yes, identify the completed portion on the enclosed drawings and indicate here the date activity was completed:

I hereby certify that the information contained herein is true and accurate. I also certify that I am entitled to apply for a permit, or that I am the duly authorized representative or agent of an applicant who is entitled to apply for a permit. Any inaccurate information submitted may result in permit revocation, the imposition of a forfeiture(s) and requirement of restoration.

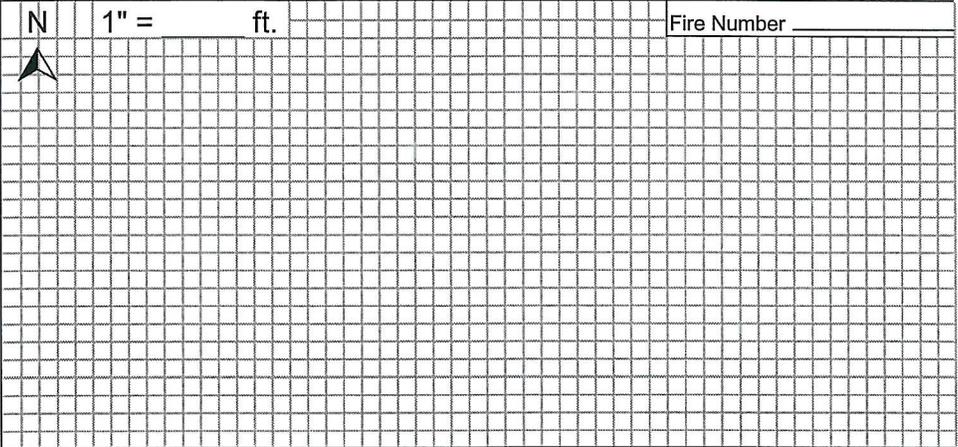
| | |
|--|-------------|
| Signature of Applicant(s) or Duly Authorized Agent | Date Signed |
|--|-------------|

| LEAVE BLANK - FOR RECEIVING AGENCY USE ONLY | | |
|---|------------------------|-------------------------------|
| Corps of Engineers Process No. | Wisconsin DNR File No. | |
| Received By | Date Received | Date Application Was Complete |

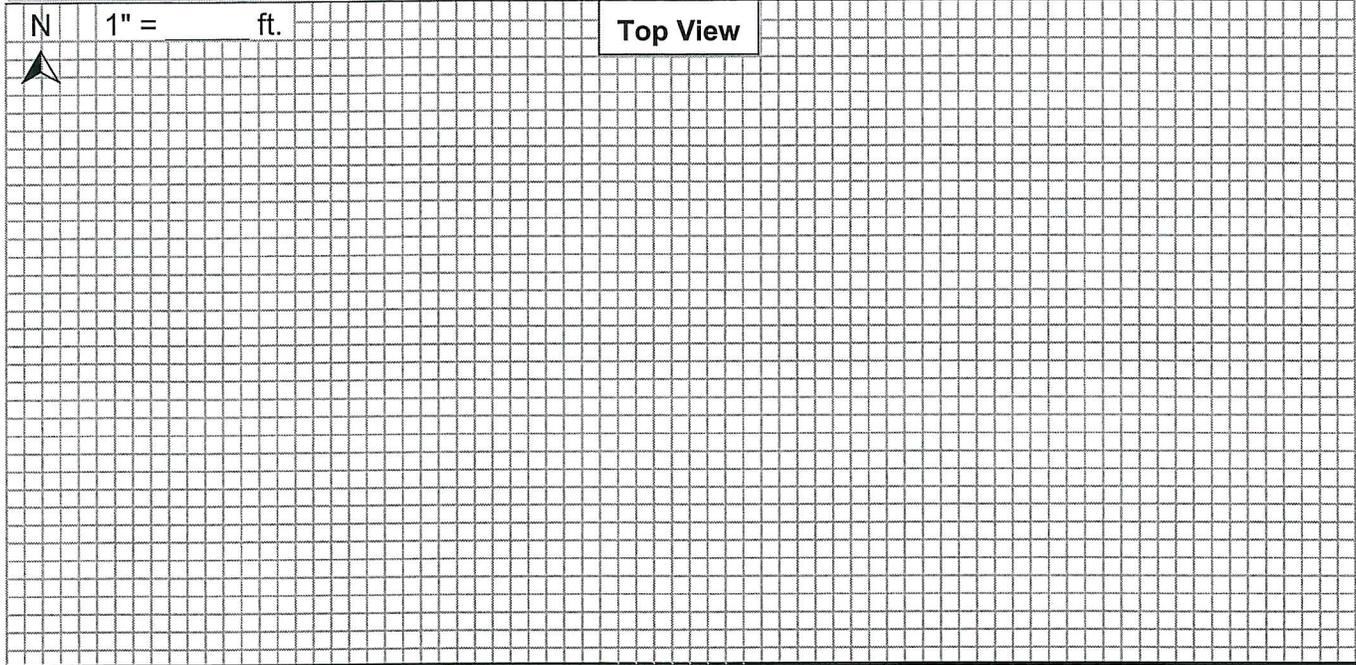
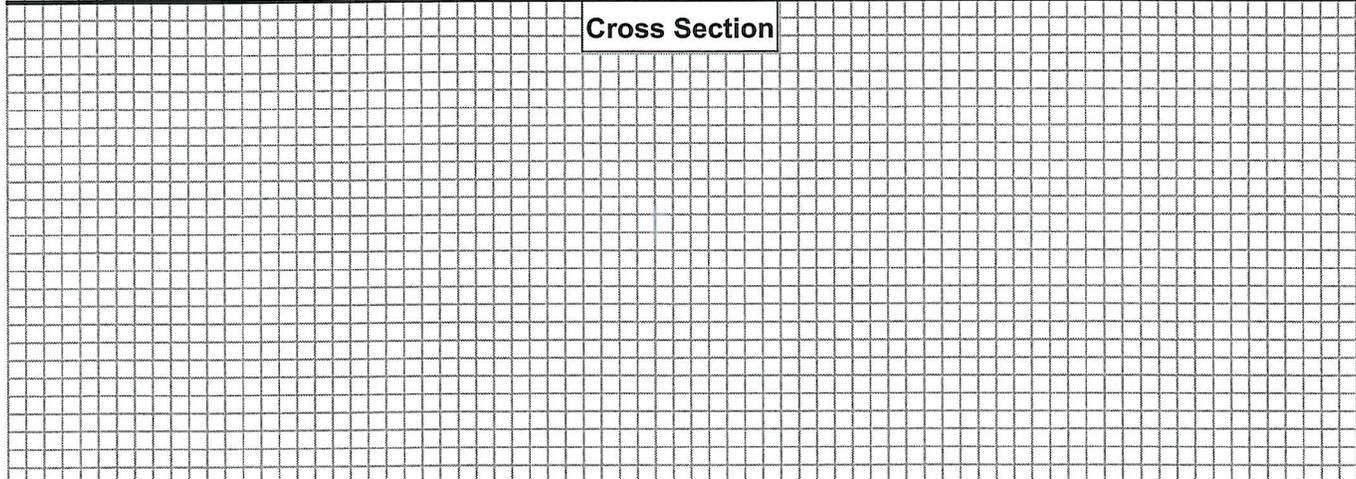
State / Federal Application for Water Regulatory Permits and Approvals

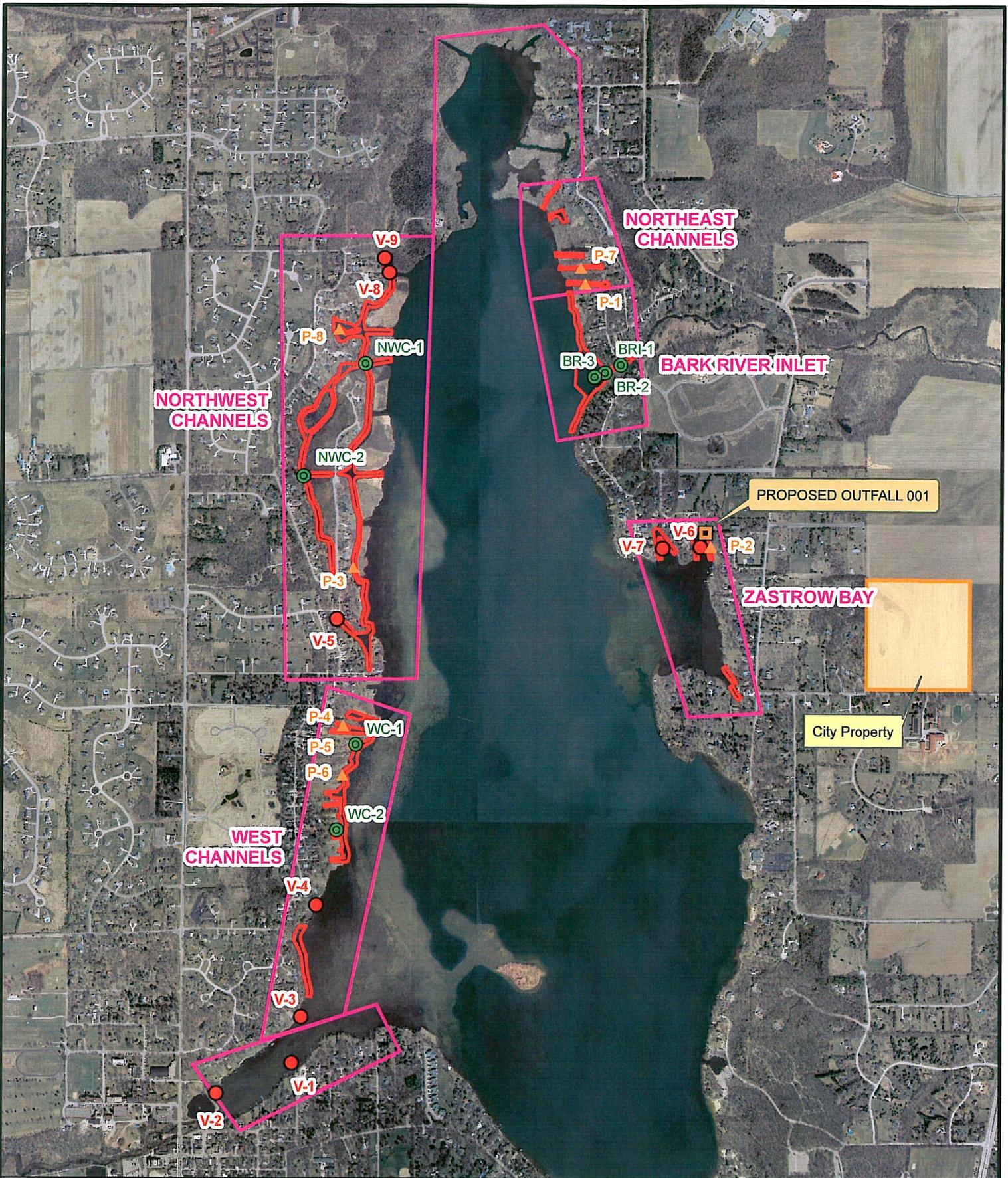
Form 3500-053 (R 4/01)

Page 2 of 2

| | | |
|---|---|-------------------|
| Drawings of proposed activity should be prepared in accordance with sample drawing. | Location Sketch (Indicate scale) Show route to project site: include nearest main road and crossroad. | |
| | N 1" = _____ ft. | Fire Number _____ |
| Proposed Materials SEE FIGURE 1 - WPDES |  | |

Project Plans (Include top view and typical cross sections. Clearly identify features and dimensions or indicate scale.)
Use additional sheets if necessary.

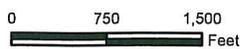
| | |
|--|-----------------|
| N 1" = _____ ft. | Top View |
|  | |
| Cross Section | |
|  | |



| Legend | |
|--------|---|
| P-1 ▲ | Private Sample Locations |
| V-1 ● | Existing City Sample Location |
| ● | Composite Sediment Samples for Elutriate (Fohn & Van Dyke 2006) |
| ■ | Potential Upland Disposal/Beneficial Use Sites |
| □ | Project Areas |
| — | Proposed Dredge Locations |

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.
 Source: Waukesha County 2005 Digital Orthophotography, supplied by Southeast Wisconsin Regional Planning Commission.
 Flown in Spring of 2005.

Note: At some of the sampling sites multiple samples were tested.



CITY OF DELAFIELD
FIGURE 1 - WPDES
DREDGE AREAS - NAGAWICKA LAKE
CHAPTER 30 PERMIT APPLICATION
WPDES PERMIT APPLICATION

Scale: AS SHOWN

Date: MAY, 2008

Drawn By: DAT

Checked By: GJB1

Scope: 06D006