

State of Wisconsin
 Department of Natural Resources
 PO Box 7921, Madison WI 53707-7921
 dnr.wi.gov

Case Closure - GIS Registry
 Form 4400-202 (R 8/16)

SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

Notice: Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.). Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided.

Site Information			
BRRTS No.	VPLE No.		
02-71-582406			
Parcel ID No.			
Source Properties - P.H. Glatfelter: 810-0431, 810-0409, 810-0417, 810-0405, 810-0408, 810-0476; WTM I - 720043600			
FID No.	WTM Coordinates		
	X	Y	
	643004	417836	
BRRTS Activity (Site) Name	WTM Coordinates Represent:		
FOX RIVER NRDA/PCB RELEASES OUI (ALT SF)	<input type="checkbox"/> Source Area <input checked="" type="checkbox"/> Parcel Center		
Site Address	City	State	ZIP Code
Little Lake Butte des Morts-Lower Fox River Acres Ready For Use	Neenah-Appleton Dam	WI	
	1,363		

Responsible Party (RP) Name			
P.H. Glatfelter Company			
Company Name			
P.H. Glatfelter Company (Attn-Legal Dept.)			
Mailing Address	City	State	ZIP Code
96 South George Street, Suite 500	York	PA	17401
Phone Number	Email		
(717) 225-4711	info@glatfelter.com		
<input type="checkbox"/> Check here if the RP is the owner of the source property.			

Environmental Consultant Name			
Tara Van Hoof			
Consulting Firm			
Foth Infrastructure & Environment, LLC			
Mailing Address	City	State	ZIP Code
2121 Innovation Court, Suite 300	De Pere	WI	54115
Phone Number	Email		
(920) 497-2500	tara.vanhoof@foth.com		

Fees and Mailing of Closure Request

1. **Send a copy of page one** of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR Regional EPA (Environmental Program Associate) at <http://dnr.wi.gov/topic/Brownfields/Contact.html#tabx3>. Check all fees that apply:

- \$1,050 Closure Fee \$300 Database Fee for Soil
 \$350 Database Fee for Groundwater or Monitoring Wells (Not Abandoned) Total Amount of Payment \$ \$1,400.00
 Resubmittal, Fees Previously Paid

2. **Send one paper copy and one e-copy on compact disk of the entire closure package** to the Regional Project Manager assigned to your site. Submit as *unbound, separate documents* in the order and with the titles prescribed by this form. For electronic document submittal requirements, see <http://dnr.wi.gov/files/PDF/pubs/rrr/RR690.pdf>.

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FOX RIVER NRDA/PCB RELEASES OU1 (ALT SF)

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Site Summary

If any portion of the Site Summary Section is not relevant to the case closure request, you must fully explain the reasons why in the relevant section of the form. All information submitted shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected.

1. General Site Information and Site History

- A. Site Location: Describe the physical location of the site, both generally and specific to its immediate surroundings. The Lower Fox River (LFR) and Green Bay Site ("the Site" or "the Fox River Site") includes an approximately 39 mile section of the Lower Fox River, from Lake Winnebago down river to the mouth of the Fox River and all of Green Bay (approximately 2700 square miles in area). This stretch of the Fox River and Green Bay flows through or borders Brown, Door, Kewaunee, Marinette, Oconto, Outagamie, and Winnebago Counties, in Wisconsin, and, Delta and Menominee Counties in Michigan. The River portion of the Site has been divided into "Operable Units" (OUs) OU1 through OU4, and the Green Bay portion of the Site is designated OU5 for purposes of Site management. The OUs were selected based, at least in part, on stretches of the River that have similar characteristics. They are OU1 from the Lake Winnebago outlet to Appleton dam, covering all of Little Lake Butte des Morts (LLBdM); OU2 from the Appleton dam to Little Rapids dam; OU3 from Little Rapids dam to the De Pere dam; OU4 from the De Pere dam to the mouth of the River at Green Bay; and OU5 Green Bay. Refer to Figure 1 of the December 2002 Record of Decision (2002 ROD) and June 2008 ROD Amendment (USEPA, 2008) (Attachment B.1.a. of closure form). The information on this Form refers primarily to OU1, as OU1 is the Site requesting closure.
- B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use. Prior and current land use in the vicinity of OU1 includes a variety of residential, commercial, and industrial activities. Because of historic problems with water quality in LLBdM, problems not associated with the presence of PCBs, the surface water resource is not used as a source of potable or domestic use water. Water sources for these uses include Lake Winnebago and groundwater. The main users of the surface water resource include industrial, commercial, and recreational users. Of these, water based recreational activities are the principle users. The primary recreational uses on LLBdM include fishing, boating, swimming, sailing, personal watercraft, and waterfowl hunting.
- C. Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
Section not required to be completed per WDNR.

- D. Describe how and when site contamination was discovered. The LFR, including LLBdM, is the most industrialized river in Wisconsin. For many years, a large number of paper production facilities have been and continue to be concentrated along the LFR and LLBdM. Some of the facilities manufactured a particular type of carbonless copy paper containing Polychlorinated Biphenyls (PCBs). Some of the other facilities reprocessed PCB-containing waste paper and used it as feedstock for the production of other paper products. In both of these processes, PCBs were released from the paper production facilities to the LFR and LLBdM directly, or after passing through municipal wastewater treatment plants. PCBs were then transported within the river system as PCBs have a tendency to sink and adhere to sediments in the river bottom. As a result, PCB contaminated sediments are found in the 39 mile stretch of the LFR (including LLBdM) and Green Bay.

With the return of the sport fishery, human use of the River and Green Bay has also returned. Recognizing concerns about potential health impacts of PCBs in the environment and their bioaccumulative properties, WDNR began routinely monitoring contamination in fish in the early 1970s. Significantly elevated levels of PCBs were detected in all species of fish and all OUs. Measured concentrations of PCBs in fish were (and remain) above levels that have been shown to be harmful to human health. As a result, fish consumption advisories for the Site were first issued in 1976 and 1977 by WDNR and the state of Michigan, respectively. Fish consumption advisories remain in effect. WDNR has continued to collect data on contaminant concentrations in fish tissue since that time.

Refer to the 2002 ROD for further information. Section 2 of Ref C in BRRTS on the Web (BOTW).

- E. Describe the type(s) and source(s) or suspected source(s) of contamination. PCBs in OU1 were from historical discharges, primarily related to carbonless copy paper manufacturing and recycling (as described above in Section 1.D.). With the exception of continuing releases of PCBs from contaminated sediments, it is believed that the original PCB sources are now essentially controlled. Ninety-eight percent of the total PCBs released into the LFR had been released by the end of 1971. Ceasing production of carbonless copy paper and the wastewater control measures put in place by the Clean Water Act were effective in eliminating point sources. Non-point sources, such as PCB contaminated groundwater plumes, are not known to exist from any of the potentially responsible parties' properties.
- F. Other relevant site description information (or enter Not Applicable).
Additional details pertaining to general Site information and history appear in the 2002 ROD. Section 2 of Ref C in BRRTS on the Web.
- G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases.
For adjacent upland sources refer to BRRTS on the Web.

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- H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property.
Fox River NRDA/PCB Releases (ALT SF) OU2-5

For adjacent upland sources refer to BRRTS on the Web.

2. General Site Conditions

A. Soil/Geology

- i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.
Section not required to be completed per WDNR.
- ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
Section not required to be completed per WDNR.
- iii. Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.
Section not required to be completed per WDNR..
- iv. Describe the nature and locations of current surface cover(s) across the site (e.g., natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).
Section not required to be completed per WDNR.

B. Groundwater

- i. Discuss depth to groundwater and piezometric elevations. Describe and explain depth variations, including high and low water table elevation and whether free product affects measurement of water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.
Section not required to be completed per WDNR.
- ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.
Section not required to be completed per WDNR.
- iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.
Section not required to be completed per WDNR.
- iv. Identify and describe locations/distance of potable and/or municipal wells within 1200 feet of the site. Include general summary of well construction (geology, depth of casing, depth of screened or open interval).
Section not required to be completed per WDNR.

3. Site Investigation Summary

A. General

- i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.

The Agencies (Wisconsin Department of Natural Resources and United States Environmental Protection Agency) have conducted extensive evaluations, particularly beginning in 1989 with the Green Bay Mass Balance Study, as well as demonstration projects in two discrete areas of the river (known as Deposit N/O and Sediment Management Unit 56/57) from 1998 - 2000. Details of these projects are discussed in the 2002 ROD, applicable to OU1 and OU2 (Ref C in BRRTS on the Web). WDNR released the draft Remedial Investigation/Feasibility Study (RI/FS) (Ref A and Ref B in BRRTS on the Web) for public review and comment in February 1999. The early release in the planning process of the draft RI/FS for public comment allowed the Agencies to better evaluate public acceptance of cleanup alternatives. Comments were received from governmental agencies, the public, environmental groups, and private-sector corporations. These comments were used to revise and refine the scope of work that led to the finalization of the RI/FS and Proposed Plan released for public comment in October 2001. Comments received (12-15-2002) from the Potentially Responsible Parties (PRPs), the public, and independent peer review committees were incorporated into the final RI/FS. In December 2002, EPA and WDNR signed the ROD for OU1 and OU2. The 2002 ROD called for active remediation in OU1 (i.e., dredging, with a capping contingency remedy) and "Monitored Natural Recovery" (MNR) in most of OU2.

New information was obtained through experience with full-scale remediation activities in OU1 in 2004-2007, and during intensive data collection and evaluation efforts performed as part of the remedial design for OU1. For example, a wealth of new sediment data was collected and analyzed during 2003-2004 and 2006-2007 sediment collection activities in OU1, including more than 5949 sediment samples at 996 locations, with 129 locations having no recoverable

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sediments. This new information can be found in the Administrative Record. (The Administrative Record contains detailed information EPA considered in selection of this Amended Remedy, and is available at the DNR Northeast Region office, 2984 Shawano Ave., Green Bay, Wis.; DNR Bureau of Watershed Management, 3rd Floor, 101 S. Webster St., Madison, Wis.; and the EPA Records Center, 7th floor, 77 W. Jackson Blvd., Chicago, Ill.)

Most of the new information for OU1 is compiled and analyzed in the "OU1 Design Supplement Lower Fox River Operable Unit 1," dated November 16, 2007 (Design Supplement), approved by EPA and WDNR on November 20, 2007 (Ref L in BRRTS on the Web). The Design Supplement was developed by two PRPs, P.H. Glatfelter Company and WTMI Company, as part of the remedial design for OU1. In addition to the Design Supplement, the PRPs submitted a document entitled "Concept Paper, Lower Fox River Operable Unit 1," dated October 22, 2007 (Concept Paper) which summarized and explained key aspects of the proposed design changes (Ref K in BRRTS on the Web). The remedial design and remedial action required under the 2002 ROD were funded and implemented under settlement agreements between the PRPs and EPA and WDNR. EPA and WDNR provided oversight for all aspects of design evaluations prepared by the PRPs, as well as remedial actions required by the 2002 ROD and subsequent 2008 ROD Amendment.

- ii. Identify whether contamination extends beyond the source property boundary, and if so describe the media affected (e.g., soil, groundwater, vapors and/or sediment, etc.), and the vertical and horizontal extent of impacts. PCB contaminated sediments are present in the waterway. Upland Soil and Groundwater are not included in this closure request.
- iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

There were no structural impediments in OU1 of the Lower Fox River PCB Cleanup Superfund Project (Project).

The PCB remedial action level (RAL) for this Project is 1.0 ppm.

For Project completion, the 2002 ROD required that the remedial action (RA) successfully accomplished one of the following options:

1. Remediation of all RAL sediment by dredging, capping, residual sand cover, and or remedy sand cover.
2. Remediation of RAL sediment that resulted in a PCB surface weighted average concentration (SWAC) of 0.25 ppm or less.

The OU1 post-RA SWAC was 0.23 ppm, and this was the completion option applied by the RPs and approved by the government oversight Agencies (US EPA and Wisconsin DNR) for OU1.

There are areas of sediment within OU1 that exceed the PCB project RAL and state standards. Any future in-river work (e.g., dredging, structure removal or installation, etc.) will rely on Wisconsin laws and regulations (e.g., Chapter 30 permitting, Administrative Code NR347 sediment characterization) as an Institutional Control (IC) to assure proper handling and disposal of any remaining PCB contaminated sediment disturbed by future activity.

B. Soil

- i. Describe degree and extent of soil contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways.
Section not required to be completed per WDNR.
- ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column.
Section not required to be completed per WDNR.
- iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site. This includes a soil performance standard established in accordance with s. NR 720.08, a Residual Contaminant Level (RCL) established in accordance with s. NR 720.10 that is protective of groundwater quality, or an RCL established in accordance with s. NR 720.12 that is protective of human health from direct contact with contaminated soil. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/information in Attachment C.
Section not required to be completed per WDNR.

C. Groundwater

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- i. Describe degree and extent of groundwater contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.

Section not required to be completed per WDNR.

- ii. Describe the presence of free product at the site, including the thickness, depth, and locations. Identify the depth and location of the smear zone.

Section not required to be completed per WDNR.

D. Vapor

- i. Describe how the vapor migration pathway was assessed, including locations where vapor, soil gas, or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.

Section not required to be completed per WDNR.

- ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).

Section not required to be completed per WDNR.

E. Surface Water and Sediment

- i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.

Sediment and surface water exposure pathways were evaluated in the OU1 remedial investigations. Note that bedrock was not encountered during these investigations.

The LFR OU1 Pre-Design - Basis of Design Report (March 2005 BODR) (Ref G in BRRTS on the Web) provides a summary of the pre-design data (including physical and chemical properties) and evaluations and includes the following components:

- * A summary of data collected during the pre-design investigations, including sampling locations, sampling methods, testing methods, analytical results, data validation results, and evaluation data

- * A summary of the historical data used

- * Sediment remediation delineation (greater than 1 part per million [ppm] total polychlorinated biphenyls [PCBs])

- * Geotechnical investigation results and evaluation

- * Treatability study results and evaluation of the sediment physical characterization as needed for design of sediment removal (dredging), sediment dewatering, carriage water and wastewater treatment, dewatered sediment disposal, and/or implementation of the contingent remedy

The sediment delineation analytical results are summarized in Table 2 of the March 2005 BODR. Evaluation of the sediment PCB delineation data is presented in Section 3. Geotechnical results are summarized in Tables 4A-4R. Treatability study results are presented in the Lower Fox River Operable Unit 1 Remedial Design-2004 Remedial Action Preliminary Design Report (CH2M HILL 2004a) (Ref F in BRRTS on the Web). Geotechnical investigation results are discussed in Section 5. Treatability study results are summarized in Section 6. Appendix D presents a white Paper-Development of Sediment Prisms in Lower Fox River OU1. See Attachment A for a listing of other relevant tables and appendices. See Attachment B for a listing of relevant tables.

Section 6.2 (Results of the Remedial Investigation) of the 2002 ROD (Ref C in BRRTS on the Web) describes the results of the RI/FS for sediment and surface water. Table 3 in the text provides the minimum and maximum concentrations detected in sediment and surface water. Section 8.3 (Ecological Risk Assessment) of the 2002 ROD describes the potential for ecological risks associated with chemicals in sediments and surface waters.

- ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded.

A range of Remedial Action Levels (RALs) was considered in order to balance the feasibility as determined by implementability, effectiveness, duration, and cost of removing PCB-contaminated sediment down to each action level against the residual risk to human and ecological receptors after remediation. For the capping alternative, locations where it was feasible were considered in determining where this technology could be applied based on criteria identified in section 6.4.4 of the Feasibility Study (Ref B in BRRTS on the Web). For dredging alternatives, WDNR and EPA (Agencies) evaluated the following action levels for the Fox River: PCB concentrations of 0.125 ppm, 0.25 ppm, 0.5 ppm, 1.0 ppm, 5.0 ppm, and no action. These results were then compared to the Remedial Action Objectives (RAOs), particularly those that deal with protection of human health and the environment. On the basis of that analysis and to achieve the risk reduction objectives using a consistent action level, the Agencies decided that 1.0 ppm was the appropriate remedial action level. Further details regarding methods used to establish RAOs and clean-up standards for the site are provided in the 2002 ROD and 2008 ROD Amendment (Ref C and Ref N in BRRTS on the Web).

Tables 9 and 10 of the 2002 ROD show the exposure point concentrations for chemicals where risk was indicated:

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Table 9 of the 2002 ROD - Summary of Chemicals of Concern and Medium-Specific Exposure Point Concentrations for Water Column Invertebrates (surface water is the exposure medium)

Table 10 of the 2002 ROD - Summary of Chemicals of Concern and Medium-Specific Exposure Point Concentrations for Benthic Invertebrates (sediment is the exposure medium)

ROD Amendment:

Remedial Action Objective 1: Achieve, to the extent practicable, surface water quality criteria throughout the Lower Fox River and Green Bay. This RAO is intended to reduce PCB concentrations in surface water as quickly as possible. The current water quality criteria for PCBs are 0.003 nanograms per liter (ng/L) for the protection of human health, and 0.012 ng/L for the protection of wild and domestic animals. Water quality criteria incorporate all routes of exposure assuming the maximum amount is ingested daily over a person's (or animals) lifetime.

4. Remedial Actions Implemented and Residual Levels at Closure

- A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.

The OU1 Remedial Action was undertaken from 2004 through 2009. Key components included dredging, placement of engineered caps, and placement of sand covers. Figure 1-1 and Table 3-1 of the November 2010 Certification of Completion Report (COC Report) (Ref T in BRRTS on the Web) provide a detailed schedule of key components from 2004 through 2009. Sediment removal was accomplished using hydraulic dredges followed by sediment dewatering, water treatment, and off-site landfill disposal of the dewatered sediment. Engineered caps involved the placement of a sand layer covered with armor stone, where a post-cap water depth equal to or greater than 6.0 feet could be attained. Refer to Figures 1-2 and 1-3 of the COC Report for an overview of remedial alternative locations. Sand covers were placed in two specific applications: 1) to manage dredge residuals and 2) to cover areas of very low concentrations (less than 2 ppm PCBs) in locations that were not dredged, all consistent with the requirements set forth in the ROD Amendment.

As required by the CD and the Amended CD (Ref E and Ref O in BRRTS on the Web), Glatfelter and WTM I prepared an RA Work Plan each calendar year specifying activities to be undertaken during the forthcoming construction season. Upon review and approval by the Agencies, the work was performed by qualified contractors with oversight by representatives of USEPA and WDNR. Refer to Table 3-24 of the COC Report for a list of parties responsible for all facets of work. At the conclusion of each construction season, an RA Summary Report was prepared for review and approval by the Agencies.

To summarize the OU1 remedial activities completed in OU1 from 2004 through 2009, the annual results for dredging, engineered cap placement, and sand cover placement are provided in Tables 1-1, 1-2, and 1-3 of the COC Report.

Refer to Attachment C for a full listing of project documents including remedial action documentation.

- B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code. Section not required to be completed per WDNR.
- C. Describe the *active* remedial actions taken at the source property, including: type of remedial system(s) used for each media affected; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.
- Due to the nature of the contamination and its discharge to the Fox River, remedial action was not required at the source properties (Glatfelter and WTM I); remedial action was taken at the off-source property (i.e. delineated areas of PCB-contaminated river sediments in OU1). Remedial actions taken are described in Section 4. A. above.
- D. Describe the alternatives considered during the Green and Sustainable Remediation evaluation in accordance with NR 722.09 and any practices implemented as a result of the evaluation. Section not required to be completed per WDNR.
- E. Describe the nature, degree and extent of residual contamination that will remain at the source property or on other affected properties after case closure.
- As documented in the annual RA Summary Reports (Ref H, Ref I, Ref J, Ref M, Ref Q, and Ref S in BRRTS on the Web), the Certification of Completion Report (COC Report) (Ref T in BRRTS on the Web), and the pre-certification inspection, necessary remedial measures have been implemented in OU1 to remediate sediments exceeding the 1.0 ppm PCB RAL. In addition, a SWAC calculation has been performed based on all post-dredge PCB data collected through 2008, when OU1 dredging was completed, and on actual implementation of capping and covering performed in OU1 through the 2009 season. Using the SWAC calculation procedures described in the COC Report, the post-remedy OU1 SWAC has been calculated to be 0.23 ppm PCBs, below the OU1 SWAC goal of 0.25 ppm PCBs set in the ROD Amendment. SWAC determination is discussed in Section 5 of the the COC Report.

Figures depicting the OU1 surface concentrations used in the final SWAC calculation are provided as Figures 1-26, 1-27, and 1-28A through 1-28H of the COC Report (Ref T in BRRTS on the Web). The area associated with each SWAC stratum,

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along with corresponding SWAC contribution values, PCB mass, and volumes, are given in Table 5-1 of the COC Report (Ref T in BRRTS on the Web). Post-dredge sediment core sampling results are provided in the Appendix B of the Certification of Completion Report for OU1, and the OU1 final post-remedy SWAC calculation is provided in Appendix E.

Throughout the project history, an active approach to dredge residuals management was taken. The 2008 ROD Amendment (Ref N in BRRTS on the Web) uses the term "generated residuals" for sediment that is re-suspended and re-deposited on the surface of a newly-dredged area (i.e., within the top six inches of the sediment), and it uses the term "undisturbed residuals" for sediment that is more than six inches below the surface of the newly-dredged sediment. If post-removal confirmatory sampling in a sediment removal area revealed post-removal generated residuals or undisturbed residuals with PCB concentrations exceeding the 1.0 ppm PCB RAL, then one or more remedial approaches was required to be taken. Generated and undisturbed residuals were addressed using a combination of re-dredging and various sand covers. Details of dredge residuals management are provided in Section 3.1.7 of the COC Report (Ref T in BRRTS on the Web).

Residual contamination is confined to sand cover and engineered cap remedial areas. Table 5 of the ROD Amendment (Ref N in BRRTS on the Web) - Section XI. A. 1. provides a summary of design features for capping and sand covers, including the allowable PCB concentration for each type of cap and cover. Engineered caps were placed over approximately 110 acres of un-dredged river with sediment PCB concentrations between 2.0 parts per million (ppm) and 10 ppm in the top 8 inches of sediment and a post-cap water depth greater than 6 feet. Areas with PCBs less than 2.0 ppm in the top 8 inches of sediment, and no other 8-inch interval with average PCB concentration greater than 1.0 ppm, were remediated with sand covers.

The locations and details pertaining to engineered caps and sand covers left in place are provided in the following documents:

- * 2007 Remedial Action Summary Report (Ref M in BRRTS on the Web) - Section 11 (Residual Sand Cover) of the text as well as tables and figures associated with this section.

- * 2008 Remedial Action Summary Report (Ref Q in BRRTS on the Web) - Section 10 (Sand Cover Placement), Section 11 (Armored Cap), and Section 13 (Armored Cap Placement Evaluation) of the text as well as tables and figures associated with these sections.

- * 2009 Remedial Action Summary Report (Ref S in BRRTS on the Web) - Section 6 (Sand Cover Placement), Section 7 (Engineered Cap Placement), and Section 8 (Engineered Cap Placement Evaluation) of the text as well as tables and figures associated with these sections.

Appendix C of the COC Report (Ref T in BRRTS on the Web) for OU1 presents the sand thickness verification results and Appendix D presents the armor stone thickness verification results for all of OU1.

Refer to Attachment C for a full listing of project documents including those mentioned above.

- F. Describe the residual soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds RCLs established under s. NR 720.12, Wis. Adm. Code, for protection of human health from direct contact.

Section not required to be completed per WDNR.

- G. Describe the residual soil contamination that is above the observed low water table that attains or exceeds the soil standard(s) for the groundwater pathway.

Section not required to be completed per WDNR.

- H. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.

As discussed in Section 4.E. above, residual contamination is confined to the sand cover and engineered cap remedial areas.

Institutional Controls (ICs) that are required to protect the cap (engineered remedy), and reduce potential exposure for all areas where residual contamination will remain, are identified in the Institutional Control Implementation and Assurance Plan (ICIAP) (Ref ZZ in BRRTS on the Web).

The ROD Amendment requires that long-term monitoring and maintenance be performed on engineered caps; however, sand covers, which were placed as the primary remedy or for post-dredge residuals management, do not required long-term monitoring or maintenance. The Lower Fox River Operable Unit 1 - Cap Monitoring and Maintenance Plan (Foth and CH2M HILL, 2011) (CMMP) (Ref V in BRRTS on the Web) describes post-placement engineered cap monitoring activities required to be performed to ensure the cap retains its physical integrity and protectiveness over time. The CMMP also outlines contingency response actions that will be implemented if the engineered cap is eroded or otherwise significantly damaged. Refer to the CMMP for further details. The OU1 engineered cap placement areas are shown on Figure 1-1 of the CMMP.

Refer to Attachment C for a full listing of project documents including those related to post remedial response work (i.e., ICIAP and CMMP).

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- I. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration (e.g., stable or receding groundwater plume).
Section not required to be completed per WDNR.

- J. Identify how all exposure pathways (soil, groundwater, vapor) were removed and/or adequately addressed by immediate, interim and/or remedial action(s).

Sediment is the only exposure pathway identified for the LFR OU1 remedial response. As described in Section A.1., remedial action to address PCB-impacted sediments included dredging, placement of engineered caps, and placement of sand covers. The RA Summary Reports (Ref H, Ref I, Ref J, Ref M, Ref Q, and Ref S in BRRTS on the Web) for each year following remedial action provides further information; a summary of remedial actions for 2004-2009 are also provided in the Certification of Completion Report (COC Report) for OU1 (Ref T in BRRTS on the Web). As described in Section 4.E. above, the post-remedy OU1 SWAC has been calculated to be 0.23 ppm PCBs, below the OU1 SWAC goal of 0.25 ppm PCBs set in the ROD Amendment (Ref N in BRRTS on the Web).

Refer to Attachment C for a full listing of project documents, including the COC Report for OU1 and the RA Summary Reports.

- K. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain. As described in Section 4.E. above, locations and details pertaining to engineered caps and sand covers left in place are provided in the RA Summary Reports for remedial actions completed in 2007-2009, as well as summarized in the Certification of Completion Report for OU1.

The Amended Remedy allowed for use of alternate remedial approaches that were much more efficient than dredging the relatively thin layer of PCB deposits found to be present in OU1. Under the 2002 ROD (Ref C in BRRTS on the Web) Remedy a large volume of relatively clean sediment would have needed to be removed as the amount of overdredging (about 4-inches) would have been significant due to the thin nature of the contaminated sediment deposits (in an average thickness of layers about 1-foot). Once removed, that relatively clean sediment would have taken up valuable disposal space since it would have needed to be disposed of in a landfill along with the more contaminated sediment. The Amended Remedy allowed engineered caps or sand covers in some areas with thin layer deposits, if specified criteria were met. It was estimated in the ROD Amendment that the Amended Remedy would thereby reduce the overdredge volume by 122,000 cubic yards.

- L. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.
Section not required to be completed per WDNR.
- M. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.
Section not required to be completed per WDNR.
- N. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.
Sediment contaminant concentrations and areas after remediation are discussed in Section 4.E. above, and a discussion of how residual sediment contamination is being addressed is provided in Section 4.H. above.

A program for monitoring the post-remediation recovery of surface water and fish tissue was developed in a comprehensive Lower Fox River Long-Term Monitoring Plan (FR-LTMP) (Ref R in BRRTS on the Web) applicable to OUs 1 through 5 of the LFR and Green Bay, dated December 2009. The FR-LTMP was included as Appendix I, of the Lower Fox River Remedial Design 100 Percent Design Report (Anchor et al., 2009). The OU1-LTMP (Ref X in BRRTS on the Web), which was developed in a manner consistent with the FR-LTMP, is presented as Appendix F of the Lower Fox River OU1 - Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work, dated May 2011 (Foth et al., 2011). Long-term monitoring of surface water and fish tissue is currently being conducted to assess progress towards achieving the Remedial Action Objectives (RAO) set forth in the 2008 ROD Amendment. The combined baseline and long-term monitoring data will provide the Response Agencies with information to determine whether the implemented remedy meets RAOs, including remedy effectiveness criteria and risk reduction targets. For further details regarding monitoring frequency and locations, refer to the OU1-LTMP.

Refer to the Baseline Monitoring Data Report 2006-2007 (Ref P in BRRTS on the Web) and the 2010 and 2012 Long-Term Summary Reports - OU1 (Ref Y and Ref Z in BRRTS on the Web) for analytical results for surface water and fish tissue monitoring. Attachments A and B provide a listing of relevant tables and figures, respectively, from these reports.

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5. Continuing Obligations: Situations where sites, including all affected properties and rights-of-way (ROWs), are included on the DNR's GIS Registry. In certain situations, maintenance plans are also required, and must be included in Attachment D.

Directions: For each of the 3 property types below, check all situations that apply to this closure request.

(NOTE: Monitoring wells to be transferred to another site are addressed in Attachment E.)

This situation applies to the following property or Right of Way (ROW):			Case Closure Situation - Continuing Obligation Inclusion on the GIS Registry is Required (ii. - xiv.)	Maintenance Plan Required	
Property Type:					
Source Property	Affected Property (Off-Source)	ROW			
i.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None of the following situations apply to this case closure request.	NA
ii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual groundwater contamination exceeds ch. NR 140 ESs.	NA
iii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination exceeds ch. NR 720 RCLs.	NA
iv.				Monitoring Wells Remain:	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Not Abandoned (filled and sealed)	NA
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Continued Monitoring (requested or required)	Yes
v.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover/Barrier/Engineered Cover or Control for (soil) direct contact pathways (includes vapor barriers)	Yes
vi.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover/Barrier/Engineered Cover or Control for (soil) groundwater infiltration pathway	Yes
vii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structural Impediment: impedes completion of investigation or remedial action (not as a performance standard cover)	NA
viii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination meets NR 720 industrial soil RCLs, land use is classified as industrial	NA
ix.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor Mitigation System (VMS) required due to exceedances of vapor risk screening levels or other health based concern	Yes
x.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Dewatering System needed for VMS to work effectively	Yes
xi.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Compounds of Concern in use: full vapor assessment could not be completed	NA
xii.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Commercial/industrial exposure assumptions used.	NA
xiii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vapor: Residual volatile contamination poses future risk of vapor intrusion	NA
xiv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site-specific situation: (e. g., fencing, methane monitoring, other) (<i>discuss with project manager before submitting the closure request</i>)	Site specific

6. Underground Storage Tanks

- A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action? Yes No
- B. Do any upgraded tanks meeting the requirements of ch. ATCP 93, Wis. Adm. Code, exist on the property? Yes No
- C. If the answer to question 6.B. is yes, is the leak detection system currently being monitored? Yes No

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General Instructions

All information shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected. For each attachment (A-G), provide a Table of Contents page, listing all 'applicable' and 'not applicable' items by Closure Form titles (e.g., A.1. Groundwater Analytical Table, A.2. Soil Analytical Results Table, etc.). If any item is 'not applicable' to the case closure request, you must fully explain the reasons why.

Data Tables (Attachment A)**Directions for Data Tables:**

- Use **bold** and italics font for information of importance on tables and figures. Use **bold** font for ch. NR 140, Wis. Adm. Code ES attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, PAL attainments or exceedances.
- Use **bold** font to identify individual ch. NR 720 Wis. Adm. Code RCL exceedances. Tables should also include the corresponding groundwater pathway and direct contact pathway RCLs for comparison purposes. Cumulative hazard index and cumulative cancer risk exceedances should also be tabulated and identified on Tables A.2 and A.3.
- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e., do not just list as no detect (ND)).
- Include the units on data tables.
- Summaries of all data must include information collected by previous consultants.
- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15 (3)(c), Wis. Adm. Code, in the format required in s. NR 716.15(4)(e), Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Soil Analytical Results Table, etc.).
- For required documents, each table (e.g., A.1., A.2., etc.) should be a separate Portable Document Format (PDF).

A. Data Tables

- A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates for all groundwater sampling points (e.g., monitoring wells, temporary wells, sumps, extraction wells, potable wells) for which samples have been collected.
- A.2. **Soil Analytical Results Table(s):** Table(s) showing **all** soil analytical results and collection dates. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated).
- A.3. **Residual Soil Contamination Table(s):** Table(s) showing the analytical results of only the residual soil contamination at the time of closure. This table shall be a subset of table A.2 and should include only the soil sample locations that exceed an RCL. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated). Table A.3 is optional only if a total of fewer than 15 soil samples have been collected at the site.
- A.4. **Vapor Analytical Table(s):** Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.
- A.5. **Other Media of Concern (e.g., sediment or surface water):** Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, and time period for sample collection.
- A.6. **Water Level Elevations:** Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.
- A.7. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

Maps, Figures and Photos (Attachment B)**Directions for Maps, Figures and Photos:**

- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11 x 17 inches, in a PDF readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(4), 726.09(2) and 726.11(3), (5) and (6), Wis. Adm. Code.
- Include all sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.,) should be a separate PDF.
- Maps, figures and photos should be dated to reflect the most recent revision.

B.1. Location Maps

- B.1.a. **Location Map:** A map outlining all properties within the contaminated site boundaries on a United States Geological Survey (U.S.G.S.) topographic map or plat map in sufficient detail to permit easy location of all affected and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.
- B.1.b. **Detailed Site Map:** A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for all affected properties, 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 attaining or exceeding a ch. NR 140 ES, and/or in relation to the boundaries of soil contamination attaining or exceeding a RCL. Provide parcel identification numbers for all affected properties.
- B.1.c. **RR Sites Map:** From RR Sites Map ([http://dnrmaps.wi.gov/sl/?Viewer=RR Sites](http://dnrmaps.wi.gov/sl/?Viewer=RR%20Sites)) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

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B.2. Soil Figures

- B.2.a. **Soil Contamination:** Figure(s) showing the location of **all** identified unsaturated soil contamination. Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720.Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedances (0-4 foot depth).
- B.2.b. **Residual Soil Contamination:** Figure(s) showing only the locations of soil samples where unsaturated soil contamination remains at the time of closure (locations represented in Table A.3). Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720 Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedance (0-4 foot depth).

B.3. Groundwater Figures

- B.3.a. **Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:
- Source location(s) and vertical extent of residual soil contamination exceeding an RCL. Distinguish between direct contact and the groundwater pathway RCLs.
 - Source location(s) and lateral and vertical extent if groundwater contamination exceeds ch. NR 140 ES.
 - Surface features, including buildings and basements, and show surface elevation changes.
 - Any areas of active remediation within the cross section path, such as excavations or treatment zones.
 - Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1.b.)
- B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, PAL and/or an ES. Indicate the date and direction of groundwater flow based on the most recent sampling data.
- B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.
- B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been abandoned.

B.4. Vapor Maps and Other Media

- B.4.a. **Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway in relation to residual soil and groundwater contamination, including sub-slab, indoor air, soil vapor, soil gas, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.
- B.4.b. **Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.
- B.4.c. **Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank).

- B.5. **Structural Impediment Photos:** One or more photographs documenting the structural impediment feature(s) which precluded a complete site investigation or remediation at the time of the closure request. The photographs should document the area that could not be investigated or remediated due to a structural impediment. The structural impediment should be indicated on Figures B.2.a and B.2.b.

Documentation of Remedial Action (Attachment C)**Directions for Documentation of Remedial Action:**

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc.).
- If the documentation requested below has already been submitted to the DNR, please note the title and date of the report for that particular document requested.
 - C.1. **Site investigation documentation**, that has not otherwise been submitted with the Site Investigation Report.
 - C.2. **Investigative waste** disposal documentation.
 - C.3. Provide a **description of the methodology** used along with all supporting documentation if the RCLs are different than those contained in the Department's RCL Spreadsheet available at: <http://dnr.wi.gov/topic/Brownfields/Professionals.html>.
 - C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.
 - C.5. **Decommissioning of Remedial Systems.** Include plans to properly abandon any systems or equipment.
 - C.6. **Other.** Include any other relevant documentation not otherwise noted above (This section may remain blank).

Maintenance Plan(s) and Photographs (Attachment D)**Directions for Maintenance Plans and Photographs:**

Attach a maintenance plan for each affected property (source property, each off-source affected property) with continuing obligations requiring future maintenance (e.g., direct contact, groundwater protection, vapor intrusion). See Site Summary section 5 for all affected property(s) requiring a maintenance plan. Maintenance plan guidance and/or templates for: 1) Cover/barrier systems; 2) Vapor intrusion; and 3) Monitoring wells, can be found at: <http://dnr.wi.gov/topic/Brownfields/Professionals.html#tabx3>

- D.1. **Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required:**
- Provide brief descriptions of the type, depth and location of residual contamination.

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- Provide a description of the system/cover/barrier/monitoring well(s) to be maintained.
 - Provide a description of the maintenance actions required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.
 - Provide contact information, including the name, address and phone number of the individual or facility who will be conducting the maintenance.
- D.2. **Location map(s) which show(s):** (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) all property boundaries.
- D.3. **Photographs** for site or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system, include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features shall be visible and discernible. Photographs shall be submitted with a title related to the site name and location, and the date on which it was taken.
- D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter. The inspection and maintenance log is found at: <http://dnr.wi.gov/files/PDF/forms/4400/4400-305.pdf>.

Monitoring Well Information (Attachment E)

Directions for Monitoring Well Information:

For all wells that will remain in use, be transferred to another party, or that could not be located; attach monitoring well construction and development forms (DNR Form 4400-113 A and B: http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf)

Select One:

- No monitoring wells were installed as part of this response action.
- All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site
- Select One or More:**
- Not all monitoring wells can be located, despite good faith efforts. Attachment E must include a description of efforts made to locate the wells.
- One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason (s) the well(s) will remain in use. When one or more monitoring wells will remain in use this is considered a continuing obligation and a maintenance plan will be required and must be included in Attachment D.
- One or more monitoring wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s). Provide documentation from the party accepting future responsibility for monitoring well(s).

Source Legal Documents (Attachment F)

Directions for Source Legal Documents:

Label documents with the specific closure form titles (e.g., F.1. Deed, F.2. Certified Survey Map, etc.). Include all of the following documents, in the order listed:

- F.1. **Deed:** The most recent deed with legal description clearly listed.
- 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.*
- F.2. **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. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- F.3. **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- F.4. **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties. This section applies to the source property only. Signed statements for Other Affected Properties should be included in Attachment G.

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Notifications to Owners of Affected Properties (Attachment G)**Directions for Notifications to Owners of Affected Properties:**

Complete the table on the following page for sites which require notification to owners of affected properties pursuant to ch. 292, Wis. Stats. and ch. NR 725 and 726, Wis. Adm. Code. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31- 19.39, Wis. Stats.]. The DNR's "Guidance on Case Closure and the Requirements for Managing Continuing Obligations" (PUB-RR-606) lists specific notification requirements <http://dnr.wi.gov/files/PDF/pubs/rr/RR606.pdf>.

State law requires that the responsible party provide a 30-day, written advance notification to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned. Use form 4400-286, Notification of Continuing Obligations and Residual Contamination, at <http://dnr.wi.gov/files/PDF/forms/4400/4400-286.pdf>

Include a copy of each notification sent and accompanying proof of delivery, i.e., return receipt or signature confirmation. (These items will not be placed on the GIS Registry.)

Include the following documents for each property, keeping each property's documents grouped together and labeled with the letter G and the corresponding ID number from the table on the following page. (Source Property documents should only be included in Attachment F):

- **Deed:** The most recent deed with legal descriptions clearly listed for all affected properties.
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. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes the attached legal description(s) accurately describe(s) the correct contaminated property or properties.

Notifications to Owners of Affected Properties (Attachment G)

ID	Address of Affected Property	Parcel ID No.	Date of Receipt of Letter	Type of Property Owner	WTMX	WTMY	Reasons Notification Letter Sent:																		
							Residual Groundwater Contamination = or > ES	Residual Soil Contamination Exceeds RCLs	Monitoring Wells: Not Abandoned	Monitoring Wells: Continued Monitoring	Cover/Barrier/Engineered Control	Structural Impediment	Industrial RCLs Met/Applied	Vapor Mitigation System(VMS)	Dewatering System Needed for VMS	Compounds of Concern in Use	Commercial/Industrial Vapor Exposure Assumptions Applied	Residual Volatile Contamination Poses Future Risk of Vapor Intrusion	Site Specification Situation						
A	See Attachment G.																								X
B																									
C																									
D																									

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Signatures and Findings for Closure Determination

This page has been updated as of February 2019 to comply with the requirements of Wis. Admin. Code ch. NR 712.

Check the correct box for this case closure request and complete the corresponding certification statement(s) listed below to demonstrate that the requirements of Wis. Admin. Code ch. NR 712 have been met. The responsibility for signing the certification may not be delegated per Wis. Admin. Code § NR 712.09 (1). Per Wis. Admin. Code § 712.05 (1), the work must be conducted or supervised by the person certifying.

- The investigation and/or response action(s) for this site evaluated and/or addressed groundwater (including natural attenuation remedies). Both a professional engineer and a hydrogeologist must sign this document per Wis. Admin. Code ch. NR 712.
- The investigation and the response action(s) for this site did not evaluate or address groundwater. A professional engineer must sign this document per Wis. Admin. Code ch. NR 712.

Engineering Certification

I, TMH, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature Tara VanHoof
Tara VanHoof

P. E. #



Title Project Environmental Engineer

P.E. Stamp

1/10/20

Hydrogeologist Certification

I, _____, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature _____

Title _____

Date _____

Save...

References in BRRTS on the Web (BOTW)

- REF A – The RETEC Group, Inc. and Natural Resource Technology, Inc., 2002. *Remedial Investigation Report – Lower Fox River and Green Bay, Wisconsin*. December 2002.
- REF B – The RETEC Group, Inc., 2002. *Final Feasibility Study – Lower Fox River and Green Bay, Wisconsin – Remedial Investigation and Feasibility Study*. December 2002.
- REF C – U.S. Environmental Protection Agency, 2002. *Record of Decision, Operable Unit 1 and Operable Unit 2, Lower Fox River and Green Bay, Wisconsin*. December 2002.
- REF D – U.S. Environmental Protection Agency, 2003a. *Record of Decision for Operable Units 3, 4, and 5, Lower Fox River and Green Bay, Wisconsin*. June 2003.
- REF E – U.S. Environmental Protection Agency, 2003b. *Consent Decree for Remedial Design and Remedial Action at Operable Unit 1 of the Lower Fox River and Green Bay Site. United States of America and the state of Wisconsin v. P.H. Glatfelter Company and WTM I Company*. October 2003.
- REF F – CH2M HILL, Inc., 2004. *Lower Fox River Operable Unit 1 Remedial Design – 2004 Remedial Action Preliminary Design Report*. April 2004.
- REF G – CH2M HILL, Inc., 2005. *Lower Fox River OUI Pre-design - Basis of Design*. March 2005.
- REF H – CH2M HILL, Inc., 2006. *Lower Fox River Operable Unit 1 Remedial Action – 2004 Remedial Summary Report*. March 2006.
- REF I – CH2M HILL, Inc.; Foth and Van Dyke & Associates, Inc.; and STS Consultants, Ltd, 2007. *Lower Fox River Operable Unit 1 Remedial Action – 2005 Remedial Summary Report*. January 2007.
- REF J – Foth and Van Dyke & Associates, Inc.; STS Consultants, Ltd; CH2M HILL, Inc.; and J.F. Brennan Co., Inc., 2007. *Lower Fox River Operable Unit 1 Remedial Action – 2006 Remedial Summary Report*. May 2007.
- REF K – P.H. Glatfelter and WTMI Company, 2007. “Draft - Concept Paper, Lower Fox River Operable Unit 1.” October 2007.
- REF L – Foth Infrastructure & Environment, LLC, 2007. *OUI Design Supplement Lower Fox River Operable Unit 1*. November 2007.

WDNR Site Name: Lower Fox River OUI
Case Closure – GIS Registry, Form 4400-202 (rev. 8/16)

- REF M – Foth Infrastructure & Environment, LLC, J.F. Brennan Co., and STS Consultants, Ltd, 2008. *Lower Fox River Operable Unit 1 – 2007 Remedial Summary Report*. May 2008.
- REF N – U.S. Environmental Protection Agency, 2008a. *Record of Decision Amendment, Operable Unit 1, Lower Fox River and Green Bay Superfund Site*. June 2008.
- REF O – U.S. Environmental Protection Agency, 2008b. *Amended Consent Decree for Remedial Design and Remedial Action at Operable Unit 1 of the Lower Fox River and Green Bay Site*. United States of America and the state of Wisconsin v. P.H. Glatfelter Company and WTM I Company, entered in the U.S. District Court, Eastern District of Wisconsin. August 13, 2008.
- REF P – Anchor QEA, LLC, Tetra Tech EC, Inc., Shaw Environmental & Infrastructure, Inc., LimnoTech, Inc., 2009. *Baseline Monitoring Data Report 2006-2007*, Lower Fox River, Wisconsin. July 2009.
- REF Q – Foth Infrastructure & Environment, LLC and J.F. Brennan Co., 2009. *Lower Fox River Operable Unit 1 – 2008 Remedial Summary Report*. September 2009.
- REF R – Anchor QEA, LLC, Tetra Tech EC, Inc., J.F. Brennan Co., Inc, and Stuyvesant Projects Realization, Inc. (subsidiary of Boskalis Doman Bv), 2012. *Lower Fox River Remedial Design 100 Percent Design Report, Volume 2 of 2* (October 2012), Appendix I, *Long-Term Monitoring Plan, Volume 2 of 2*. December 2009.
- REF S – Foth Infrastructure & Environment, LLC and J.F. Brennan Co., 2010. *Lower Fox River Operable Unit 1 – 2009 Remedial Summary Report*. April 2010.
- REF T – Foth Infrastructure & Environment, LLC and CH2M HILL, Inc., 2010. *Lower Fox River Operable Unit 1 Remedial Action Certification of Completion*. November 2010.
- REF U – Foth Infrastructure & Environment, LLC, 2011. *Lower Fox River Operable Unit 1 – Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work, Appendix B, Quality Assurance Project Plan*. April 2011.
- REF V – Foth Infrastructure & Environment, LLC and CH2M HILL, Inc., 2011a. *Lower Fox River Operable Unit 1 – Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work, Appendix G, Cap Monitoring and Maintenance Plan*. May 2011.
- REF W – Foth Infrastructure & Environment, LLC and CH2M HILL, Inc., 2011b. *Lower Fox River Operable Unit 1 – Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work*. June 2011.

WDNR Site Name: Lower Fox River OUI
Case Closure – GIS Registry, Form 4400-202 (rev. 8/16)

REF X – Foth Infrastructure & Environment, LLC and CH2M HILL, Inc., 2011c. *Lower Fox River Operable Unit 1 – Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work, Appendix F, OUI Long-term Monitoring Plan.* June 2011.

REF Y – Foth Infrastructure & Environment, LLC, 2012. *2010 Long-term Monitoring Summary Report – Lower Fox River Operable Unit 1.* November 2012.

REF Z – Foth Infrastructure & Environment, LLC, 2013. *2012 Long-term Monitoring Summary Report – Lower Fox River Operable Unit 1.* November 2013.

REF ZZ – Foth Infrastructure & Environment, LLC, 2017. *Lower Fox River Operable Unit 1 – Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work, Appendix H, Institutional Control Implementation and Assurance Plan.* June 2017.

ATTACHMENT A

Data Tables

A.1. Groundwater Analytical Table(s)

Section not required to be completed per WDNR.

A.2. Soil Analytical Results Table(s)

Section not required to be completed per WDNR.

A.3. Residual Soil Contamination Table(s)

Section not required to be completed per WDNR.

A.4. Vapor Analytical Table(s)

Section not required to be completed per WDNR.

A.5. Other Media of Concern (e.g., sediment or surface water)

From REF G, *Lower Fox River OUI Pre-design - Basis of Design* in BRRTS on the Web (BOTW):

Table 1	Summary of Sediment Core Data Collected
Table 2	Sediment PCB Delineation Results Summary
Table 3	Estimated Area and Volume of Sediments Exceeding 1.0 ppm PCBs

From Appendix B of REF T, *Lower Fox River Operable Unit 1 Remedial Action Certification of Completion* in BOTW:

T- B-1, Sub-area A, 2005 Actual Post-Dredge Sediment Sampling Core Locations
T- B-2, Sub-area C_D2S, 2005 Actual Post-Dredge Sediment Sampling Core Locations
T- B-3, Sub-area POG1, 2005 Actual Post-Dredge Sediment Sampling Core Locations
T- B-4, 2006 Post-Dredge Sediment Sampling Results
T- B-5, 2007 Post-Dredge Sediment Sampling Results
T- B-6, 2008 Post-Dredge Sediment Sampling Results

A.6. Water Level Elevations

Section not required to be completed per WDNR.

A.7. Other

Summaries of Fish and Surface Water Data are available in the Baseline Monitoring and Long Term Monitoring Summary Reports in BOTW.

A.5. Other Media of Concern

TABLE 1

Summary of Sediment Core Data Collected

Lower Fox River OU1 Pre-design—Basis of Design Report

Sub-area	Number of Stations - Core Collected	Number of Native PCB Samples Analyzed	Number of PCB Duplicate Samples	Total Number of PCB Samples Analyzed ^a	Number of Native Geotechnical Samples Analyzed	Number of Geotechnical Duplicate Samples	Total Number of Geotechnical Samples Analyzed ^a
A	36	141	8	149	117	6	123
B	17	44	2	46	6	0	6
C	28	169	10	179	13	0	13
D1	64	295	23	318	26	6	32
D2	31	156	10	166	12	0	12
E1	71	690	41	731	58	10	68
E2	98	1351	76	1427	110	0	110
E3	148	965	60	1025	96	0	96
E4	42	104	7	111	12	0	12
E5	30	316	22	338	17	0	17
E6	17	168	1	169	6	0	6
F	32	238	5	243	11	0	11
G	6	40	0	40	6	0	6
H	2	0	0	0	0	0	0
POG1	11	29	4	33	2	0	2
POG2	22	209	19	228	16	0	16
POG3	104	392	30	422	33	4	37
POG4	76	125	4	129	7	0	7
TOTAL	835	5432	322	5754	548	26	574

Note: ^a Total number of samples does not include samples archived for potential future analysis.

TABLE 2

Lower Fox River OU1

Sediment PCB Delineation Results Summary

Lower Fox River OU1 Pre-design—Basis of Design Report

Sub-area	Total PCB				% Solids				Total Organic Carbon			
	No. of Samples	Average (ppm)	Min (ppm)	Max (ppm)	No. of Samples	Average (%)	Min (%)	Max (%)	No. of Samples	Average (mg/kg)	Min (mg/kg)	Max (mg/kg)
A	438	7.69	0.011	330	305	55	12	92	264	97,623	1,000	778,000
B	44	0.19	0.0135	0.38	17	76	42	96	2	23,000	12,000	34,000
C	169	2.46	0.0135	84	133	38	11	87	12	71,133	9,600	110,000
D1	295	0.78	0.0135	13	295	52	15	88	41	30,134	3,900	90,000
D2	156	0.37	0.0135	3.4	49	62	15	87	5	52,800	31,000	82,000
E1	690	0.89	0.0135	110	587	26	9.4	82	69	93,652	38,000	140,000
E2	1351	2.06	0.0135	60	1342	23	1.2	93	120	83,100	53,000	120,000
E3	965	0.69	0.0135	14	593	34	5.4	81	108	48,050	5,600	130,000
E4	104	0.41	0.0135	3	39	34	14	73	3	68,667	39,000	100,000
E5	316	0.35	0.0135	2.2	98	22	9.4	79	3	76,333	66,000	83,000
E6	168	0.61	0.0135	16	81	41	18	77	1	54,000	54,000	54,000
F	238	0.30	0.0135	2.8	62	32	17	76	2	121,500	93,000	150,000
G	40	0.21	0.0135	0.255	8	76	49	90	2	9,900	9,800	10,000
H	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
POG1	38	19.44	0.0135	190	38	26	11	81	1	180,000	180,000	180,000
POG2	209	7.85	0.0135	91	209	30	8.2	73	34	93,206	14,000	200,000
POG3	392	4.55	0.0135	360	392	56	4.1	92	45	77,911	11,000	240,000
POG4	125	0.84	0.0135	6.6	72	31	8.4	69	4	75,250	63,000	100,000
TOTAL	5738	2.22	0.011	360	4320	34	1.2	96	716	80,590	1,000	778,000

Note: Duplicate analyses were not included in the analysis.
Historical data for Sub-areas A and POG1 included.

TABLE 3

Estimated Area and Volume of Sediments Exceeding 1.0 ppm and 50 ppm PCBs

Lower Fox River OU1 Pre-design—Basis of Design Report

Sub-area	Total Surface Area of Sub-area (sf)	Estimated Total Volume of Soft Sediments within Sub-area (cy)	Estimated Surface Area Exceeding 1.0 ppm PCBs (sf)	Estimated Volume of Sediments Exceeding 1.0 ppm PCBs Including Overburden (cy)	Estimated Surface Area Exceeding 50 ppm PCBs (sf)	Estimated In-situ Volume of Sediments Exceeding 50 ppm PCBs (cy)	Estimated Volume of Sediments Exceeding 50 ppm PCBs Including Overburden (cy)
A	3,127,166	233,450	2,073,247	58,250	100,670	1,815	2,587
B	NA	NA	NA	NA	NA	NA	NA
C	808,227	82,134	683,087	17,691	22,872	261	870
D1	2,805,742	208,893	1,638,672	41,635	0	0	0
D2	2,751,243	217,604	645,502	12,228	0	0	0
E1	3,189,881	564,496	3,068,996	105,453	32,758	627	1,567
E2	3,859,474	1,366,843	3,619,474	205,470	50,384	1,049	2,678
E3	6,633,088	1,009,504	3,885,648	99,876	0	0	0
E4	3,933,901	327,497	395,390	9,919	0	0	0
E5	2,632,737	467,930	613,323	19,053	0	0	0
E6	1,261,221	196,425	461,760	22,001	0	0	0
F	3,001,833	554,879	905,351	14,163	0	0	0
G	NA	NA	NA	NA	NA	NA	NA
H	NA	NA	NA	NA	NA	NA	NA
POG1 ¹	285,583	25,374	285,583	25,374	25,847	1,603	1,694
POG2	551,859	105,832	500,113	70,466	46,724	834	3,389
POG3	4,266,475	325,514	2,606,123	52,929	229,339	2,831	3,789
POG4	7,077,354	213,087	1,002,833	34,966	0	0	0
TOTAL	46,185,784	5,899,462	22,385,102	789,474	508,594	9,020	16,574

Notes:

¹ Due to the heterogeneous occurrence of the PCBs in Sub-area POG1 (the wood chip deposit), the entire area and volume of wood chips contained in the sub-area (as shown in this table) is planned for removal. The surface area and volume of wood chips exceeding 1.0 ppm PCBs is estimated to be the same as the total surface area and volume of the sub-area.

NA = not applicable

cy = cubic yards

sf = square feet

ft = feet

ID	Sample ID	Sample Type (P/S/NSS)	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	PCB Results (ppb)	PCB Results (ppm)
59comp	1-RA-05-000A-PS-59(A-D)comp	C	11/16/2005	802922	2368841	10A	29.5	2100	2.1
60comp	1-RA-05-000A-PS-60(A-D)comp	C	11/16/2005	802988	2368956	10A	44.3	280	0.28
61comp	1-RA-05-000A-PS-61(A-D)comp	C	11/16/2005	802922	2369071	1A	55.3	390	0.39
62comp	1-RA-05-000A-PS-62(A-D)comp	C	11/23/2005	802988	2369186	10A	67.1	470	0.47
63comp	1-RA-05-000A-PS-63(A-D)comp	C	11/23/2005	802922	2369301	14A	67.0	1400	1.4
64comp	1-RA-05-000A-PS-64(A-D)comp	C	11/23/2005	802988	2369416	14A	65.3	380	0.38
67comp	1-RA-05-000A-PS-67(A-D)comp	C	9/30/2005	802723	2368726	7A	31.0	11000	11
68comp	1-RA-05-000A-PS-68(A-D)comp	C	11/16/2005	802789	2368841	10A	33.9	1900	1.9
68comp	1-RA-05-000A-PS-68(A-D)comp dup	C/DUP	11/16/2005	802789	2368841	10A	35.8	1300	1.3
69comp	1-RA-05-000A-PS-69(A-D)comp	C	11/16/2005	802723	2368956	9A	42.3	1100	1.1
70comp	1-RA-05-000A-PS-70(A-D)comp	C	11/16/2005	802789	2369071	10A	48.7	540	0.54
71comp	1-RA-05-000A-PS-71(A-D)comp	C	10/21/2005	802723	2369186	11A	57.2	580	0.58
71comp	1-RA-05-000A-PS-71(A-D)comp dup	C/DUP	10/21/2005	802723	2369186	11A	58.0	620	0.62
72comp	1-RA-05-000A-PS-72(A,B,C)comp	C	11/23/2005	802789	2369301	14A	66.7	800	0.8
73comp	1-RA-05-000A-PS-73(A-D)comp	C	11/2/2005	802723	2369416	13A	70.8	350	0.35
73comp	1-RA-05-000A-PS-73(A-D)comp dup	C/DUP	11/2/2005	802723	2369416	13A	68.4	470	0.47
74comp	1-RA-05-000A-PS-74(A,B)comp	C	11/21/2005	802784	2369480	14A	74.7	210	0.21
76comp	1-RA-05-000A-PS-76(A)comp	C	8/17/2005	804710	2369749	3A	75.0	210	0.21
78comp	1-RA-05-000A-PS-78(B)comp	C	11/21/2005	802490	2368691	7A	44.2	1100	1.1
79comp	1-RA-05-000A-PS-79(A-D)comp	C	9/30/2005	802590	2368726	7A	48.4	1000	1
79comp	1-RA-05-000A-PS-79(A-D)comp dup	C/DUP	9/30/2005	802590	2368726	7A	47.6	720	0.72
80comp	1-RA-05-000A-PS-80(A-D)comp	C	9/30/2005	802523	2368841	7A	26.0	6500	6.5
81comp	1-RA-05-000A-PS-81(A-D)comp	C	10/14/2005	802590	2368956	9A	29.0	2200	2.2
82comp	1-RA-05-000A-PS-82(A-D)comp	C	10/24/2005	802524	2369071	2A	37.1	3100	3.1
83comp	1-RA-05-000A-PS-83(A-D)comp	C	10/24/2005	802590	2369186	11A	45.3	2200	2.2
84comp	1-RA-05-000A-PS-84(A-D)comp	C	10/24/2005	802524	2369301	11A	58.3	1500	1.5
85comp	1-RA-05-000A-PS-85(A-D)comp	C	10/25/2005	802590	2369416	13A	67.0	1700	1.7
86comp	1-RA-05-000A-PS-86(A-D)comp	C	10/25/2005	802524	2369531	13A	83.0	160	0.16
86comp	1-RA-05-000A-PS-86(A-D)comp dup	C/DUP	10/25/2005	802524	2369531	13A	84.0	2800	2.8
87comp	1-RA-05-000A-PS-87(A,C)comp	C	11/16/2005	802590	2369646	8A	76.2	1100	1.1
88comp	1-RA-05-000A-PS-88(A-D)comp	C	10/21/2005	802524	2369761	3A	65.6	82	0.082
89comp	1-RA-05-000A-PS-89(A)comp	C	8/17/2005	802651.95	2369809	3A	78.0	110	0.11
91comp	1-RA-05-000A-PS-91(A,C)comp	C	12/1/2005	802340	2368759	7A	67.8	7600	7.6
91comp	1-RA-05-000A-PS-91(A,C)comp dup	C/DUP	12/1/2005	802340	2368759	7A	60.2	3700	3.7
92comp	1-RA-05-000A-PS-92(A-D)comp	C	9/30/2005	802391	2368841	7A	39.9	3500	3.5
93comp	1-RA-05-000A-PS-93(A-D)comp	C	9/30/2005	802325	2368956	7A	30.7	7000	7
94comp	1-RA-05-000A-PS-94(A-D)comp	C	9/12/2005	802391	2369067	2A	27.0	7600	7.6
95comp	1-RA-05-000A-PS-95(A-D)comp	C	10/24/2005	802325	2369186	11A	30.1	22000	22
96comp	1-RA-05-000A-PS-96(A-D)comp	C	10/21/2005	802391	2369301	4A	61.6	2700	2.7
97comp	1-RA-05-000A-PS-97(A-D)comp	C	10/26/2005	802325	2369416	13A	67.0	180	0.18
98comp	1-RA-05-000A-PS-98(A-D)comp	C	10/26/2005	802391	2369531	13A	79.0	2800	2.8
99comp	1-RA-05-000A-PS-99(A-D)comp	C	11/2/2005	802325	2369646	8A	72.5	5800	5.8
100comp	1-RA-05-000A-PS-100(A-D)comp	C	10/21/2005	802391	2369761	3A	72.7	110	0.11
101comp	1-RA-05-000A-PS-101(A)comp	C	11/29/2005	802223	2368783	7A	69.7	1200	1.2
102comp	1-RA-05-000A-PS-102(A-D)comp	C	11/21/2005	802125	2368841	7A	50.1	2400	2.4
103comp	1-RA-05-000A-PS-103(A-D)comp	C	9/30/2005	802192	2368956	7A	23.9	4300	4.3
104comp	1-RA-05-000A-PS-104(A-D)comp	C	9/12/2005	802126	2369071	6A	36.0	6900	6.9
105comp	1-RA-05-000A-PS-105(A-D)comp	C	10/21/2005	802192	2369186	12A	40.8	13000	13
106comp	1-RA-05-000A-PS-106(A-D)comp	C	10/26/2005	802126	2369301	12A	50.0	33000	33
107comp	1-RA-05-000A-PS-107(A-D)comp	C	10/26/2005	802192	2369416	13A	64.0	3900	3.9
108comp	1-RA-05-000A-PS-108(A-D)comp	C	10/25/2005	802126	2369531	13A	69.0	2900	2.9
109comp	1-RA-05-000A-PS-109(C,D)comp	C	9/16/2005	802192	2369646	8A	52.4	4700	4.7
110comp	1-RA-05-000A-PS-110(C)comp	C	8/17/2005	802133	2369778	3A	73.0	7700	7.7
111comp	1-RA-05-000A-PS-111(A-D)comp	C	11/16/2005	801992	2368841	20A	36.1	2100	2.1
112comp	1-RA-05-000A-PS-112(A-C)comp	C	11/16/2005	801926	2368956	20A	49.4	860	0.86
113comp	1-RA-05-000A-PS-113(A-D)comp	C	11/21/2005	801992	2369071	20A	51.3	3300	3.3
114comp	1-RA-05-000A-PS-114(A,B)comp	C	11/16/2005	801996	2369183	20A	54.2	4100	4.1
115comp	1-RA-05-000A-PS-115(A,B)comp	C	11/21/2005	802018	2369296	20A	64.0	420	0.42
116comp	1-RA-05-000A-PS-116(A)comp	C	11/21/2005	802023	2369417	20A	57.8	19000	19
117comp	1-RA-05-000A-PS-117(A,B,C)comp	C	11/21/2005	802032	2369529	20A	58.9	17000	17
117comp	1-RA-05-000A-PS-117(A,B,C)comp dup	C/DUP	11/21/2005	802032	2369529	20A	64.8	8100	8.1
119comp	1-RA-05-000A-PS-119(A)comp	C	11/21/2005	802038	2369726	20A	62.5	2800	2.8

NV = No Value

Sample Type Notes:

P = Primary

S = Secondary

C = Composite

DUP = Duplicates

NSS = No Soft Sediment

SPS = State Plane South

DMU = Dredge Management Unit

ppb = parts per billion

ppm = parts per million

Composite Samples Collection Date is the day the sample was sent to the Lab. Composite Samples Locations are the centroid of the sampling grid triangle.

Data from the 2005 RA Summary Report, Appendix E, Table E-1.

Prepared by: TMK1

Checked by: SVF

Table B-2
Lower Fox River - OU1 (Sub-area C/D2S)
2005 Actual Post-Dredge Sediment Sampling Core Locations
Percent Solids and PCB Results

ID	Sample ID	Sample Type (P/S/NSS)	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	PCB Results (ppb)	PCB Results (ppm)
1P	1-RA-05-000C-PS-1P	P	11/24/2005	805637	2369208	1C	43.6	730	0.73
1P	1-RA-05-000A-PS-1PDup	P/DUP	11/24/2005	805637	2369208	1C	43.1	700	0.7
2P	1-RA-05-000C-PS-2P	P	11/24/2005	805577	2369094	1C	54.5	710	0.71
2P	1-RA-05-000D2S-PS-2P	P	11/30/2005	805918	2369245	2D2S	28.1	72	0.072
2P	1-RA-05-000D2S-PS-2P dup	P/DUP	11/30/2005	805577	2369094	2D2S	27.6	100	0.1
3P	1-RA-05-000C-PS-3P	P	11/24/2005	805642	2368977	1C	22.7	2700	2.7
4P	1-RA-05-000C-PS-4P	P	12/1/2005	805623	2368862	3C	36.4	610	0.61
5P	1-RA-05-000C-PS-5P	P	12/1/2005	805643	2368748	3C	55.9	440	0.44
6P	1-RA-05-000C-PS-6P	P	12/1/2005	805672	2368632	3C	32.7	1700	1.7
7P	1-RA-05-000C-PS-7P	P	11/30/2005	805752	2369152	2C	51.2	330	0.33
8P	1-RA-05-000C-PS-8P	P	11/30/2005	805843	2369103	2C	43.1	610	0.61
9P	1-RA-05-000C-PS-9P	P	11/30/2005	805778	2368978	2C	28.8	1600	1.6
10P	1-RA-05-000C-PS-10P	P	12/1/2005	805841	2368865	4C	22.8	1000	1
11P	1-RA-05-000C-PS-11P	P	12/20/2005	805779	2368748	5C	30.6	1300	1.3
11P	1-RA-05-000C-PS-11P dup	P/DUP	12/20/2005	805779	2368748	5C	31.0	1300	1.3
12P	1-RA-05-000C-PS-12P	P	12/20/2005	805847	2368626	5C	27.7	2500	2.5
13P	1-RA-05-000C-PS-13P	P	12/20/2005	805802	2368563	5C	51.1	380	0.38
14P	1-RA-05-000C-PS-14P	P	12/21/2005	805972	2369053	6C	50.7	59	0.059
14P	1-RA-05-000C-PS-14P dup	P/DUP	12/21/2005	805972	2369053	6C	51.2	70	0.07
15P	1-RA-05-000C-PS-15P	P	12/21/2005	806044	2368963	6C	25.7	870	0.87
16P	1-RA-05-000C-PS-16P	P	12/21/2005	805978	2368863	7C	25.4	150	0.15
17P	1-RA-05-000C-PS-17P	P	12/21/2005	806039	2368754	7C	33.7	200	0.2
18P	1-RA-05-000C-PS-18P	P	12/20/2005	806054	2368649	8C	26.7	690	0.69
19P	1-RA-05-000C-PS-19P	P	12/21/2005	806177	2368978	6C	20.2	3000	3
20P	1-RA-05-000C-PS-20P	P	12/20/2005	806233	2368865	9C	29.2	2500	2.5
21P	1-RA-05-000C-PS-21P	P	12/20/2005	806177	2368748	10C	18.4	2700	2.7
22P	1-RA-05-000C-PS-22P	P	12/20/2005	806248	2368632	10C	49.2	660	0.66
25P	1-RA-05-000C-PS-25P	P	12/20/2005	806353	2368833	9C	40.8	1700	1.7
26P	1-RA-05-000C-PS-26P	P	12/20/2005	806435	2368755	9C	25.8	2900	2.9
27P	1-RA-05-000C-PS-27P	P	12/20/2005	806364	2368640	10C	55.7	90	0.09
1comp	1-RA-05-000C-PS-1(A-C)comp	C	12/2/2005	805639	2369188	1C	53.3	350	0.35
2comp	1-RA-05-000C-PS-2(A-D)comp	C	12/2/2005	805585	2369092	1C	46.5	750	0.75
2comp	1-RA-05-000C-PS-2(A-D)comp dup	C/DUP	12/2/2005	805585	2369092	1C	56.7	680	0.68
2comp	1-RA-05-000D2S-PS-2(A-C)comp	C	12/1/2005	805888	2369216	2D2S	23.0	3100	3.1
2comp	1-RA-05-000D2S-PS-2(A-C)comp dup	C/DUP	12/1/2005	805888	2369216	2D2S	23.6	3400	3.4
3comp	1-RA-05-000C-PS-3(A-D)comp	C	12/5/2005	805652	2368981	1C, 3C	24.2	2300	2.3
4comp	1-RA-05-000C-PS-4(A-D)comp	C	12/5/2005	805604	2368863	3C	50.9	610	0.61
5comp	1-RA-05-000C-PS-5(A-D)comp	C	12/5/2005	805655	2368750	3C	48.4	390	0.39
6comp	1-RA-05-000C-PS-6(A)comp	C	12/5/2005	805671	2368627	3C	42.2	3000	3
7comp	1-RA-05-000C-PS-7(A,B)comp	C	12/2/2005	805763	2369170	2C	35.8	690	0.69
8comp	1-RA-05-000C-PS-8(A-D)comp	C	12/2/2005	805845	2369090	2C	28.8	1200	1.2
9comp	1-RA-05-000C-PS-9(A-D)comp	C	12/5/2005	805794	2368978	2C, 4C	39.4	580	0.58
10comp	1-RA-05-000C-PS-10(A-D)comp	C	12/5/2005	805845	2368865	4C	24.4	740	0.74
11comp	1-RA-05-000C-PS-11(A-D)comp	C	12/21/2005	805789	2368748	4C, 5C	33.8	940	0.94
11comp	1-RA-05-000C-PS-11(A-D)comp dup	C/DUP	12/21/2005	805789	2368748	4C, 5C	33.5	1100	1.1
12comp	1-RA-05-000C-PS-12(A-D)comp	C	12/22/2005	805840	2368627	5C	48.2	250	0.25
13comp	1-RA-05-000C-PS-13(A,B)comp	C	12/21/2005	805789	2368563	5C	45.2	610	0.61
14comp	1-RA-05-000C-PS-14(A,B,C)comp	C	12/22/2005	805980	2369080	6C	22.5	1000	1
15comp	1-RA-05-000C-PS-15(A-D)comp	C	12/22/2005	806036	2368983	6C, 7C	37.6	280	0.28
16comp	1-RA-05-000C-PS-16(A-D)comp	C	12/22/2005	805993	2368860	7C	28.3	480	0.48
16comp	1-RA-05-000C-PS-16(A-D)comp dup	C/DUP	12/22/2005	805993	2368860	7C	28.1	440	0.44
17comp	1-RA-05-000C-PS-17(A-D)comp	C	12/22/2005	806039	2368745	7C, 8C	25.5	1900	1.9
18comp	1-RA-05-000C-PS-18(A-D)comp	C	12/21/2005	805982	2368627	8C	31.0	1400	1.4
19comp	1-RA-05-000C-PS-19(A-D)comp	C	12/22/2005	806169	2368989	6C	29.8	1300	1.3
20comp	1-RA-05-000C-PS-20(A-D)comp	C	12/22/2005	806236	2368860	7C, 9C	37.4	1200	1.2
21comp	1-RA-05-000C-PS-21(A-D)comp	C	12/22/2005	806185	2368748	7C, 8C, 9C, 10C	30.7	2200	2.2
22comp	1-RA-05-000C-PS-22(A-D)comp	C	12/21/2005	806239	2368641	10C	41.2	2800	2.8
25comp	1-RA-05-000C-PS-25(A,B)comp	C	12/21/2005	806354	2368836	9C	66.4	1100	1.1
26comp	1-RA-05-000C-PS-26(A,B,C)comp	C	12/21/2005	806424	2368742	9C, 10C	34.0	800	0.8
27comp	1-RA-05-000C-PS-27(A-D)comp	C	12/21/2005	806370	2368651	10C	48.3	480	0.48

NV = No Value

Sample Type Notes:

P = Primary

S = Secondary

C = Composite

DUP = Duplicates

NSS = No Soft Sediment

SPS = State Plane South

DMU = Dredge Management Unit

ppb = parts per billion

ppm = parts per million

Composite Samples Collection Date is the day the sample was sent to the lab.

Data from the 2005 RA Summary Report, Appendix E, Table E-2

Prepared by: TMK1

Checked by: SVF

Table B-3
 Lower Fox River - OU1 (Sub-area POG1)
 2005 Actual Post-Dredge Sediment Sampling Core Locations
 Percent Solids and PCB Results

ID	Sample ID	Sample Type (P/S/NSS)	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	PCB Results (ppb)	PCB Results (ppm)
1P	No Recovery	NSS	12/13/2005	806663	2371763	POG-1	NV	16.8	0.0168
2P	1-RA-05-000POG1-PS-2P	P	12/13/2005	806627	2371851	POG-1	30.4	230	0.23
3P	1-RA-05-000POG1-PS-3P	P	12/13/2005	806670	2371981	POG-1	20.0	1200	1.2
4P	1-RA-05-000POG1-PS-4P	P	11/23/2005	806605	2372040	POG-1	56.4	420	0.42
5P	1-RA-05-000POG1-PS-5P	P	12/15/2005	806519	2371231	POG-1	32.9	4500	4.5
6P	1-RA-05-000POG1-PS-6P	P	12/15/2005	806445	2371282	POG-1	16.4	1400	1.4
7P	No Recovery	NSS	12/15/2005	806453	2371372	POG-1	NV	16.8	0.0168
8P	1-RA-05-000POG1-PS-8P	P	12/15/2005	806431	2371508	POG-1	16.4	41000	41
9P	No Recovery	NSS	12/15/2005	806479	2371651	POG-1	NV	16.8	0.0168
10P	No Recovery	NSS	12/15/2005	806447	2371742	POG-1	NV	16.8	0.0168
11P	1-RA-05-000POG1-PS-11P	P	12/16/2005	806528	2371865	POG-1	29.5	3800	3.8
12P	1-RA-05-000POG1-PS-12P	P	12/13/2005	806436	2371969	POG-1	44.9	510	0.51
12P	1-RA-05-000POG1-PS-12P dup	P/DUP	12/13/2005	806436	2371969	POG-1	48.7	240	0.24
13P	1-RA-05-000POG1-PS-13P	P	11/23/2005	806541	2372019	POG-1	15.2	1700	1.7
14P	No Recovery	NSS	12/15/2005	806360	2371350	POG-1	NV	16.8	0.0168
15P	1-RA-05-000POG1-PS-15P	P	12/19/2005	806273	2371441	POG-1	49.7	11000	11
16P	1-RA-05-000POG1-PS-16P	P	12/19/2005	806336	2371565	POG-1	18.3	2700	2.7
17P	1-RA-05-000POG1-PS-17P	P	12/16/2005	806294	2371646	POG-1	41.8	550	0.55
18P	1-RA-05-000POG1-PS-18P	P	12/16/2005	806323	2371797	POG-1	39.8	440	0.44
18P	1-RA-05-000POG1-PS-18P dup	P/DUP	12/16/2005	806323	2371797	POG-1	44.1	300	0.3
19P	1-RA-05-000POG1-PS-19P	P	12/16/2005	806246	2371857	POG-1	24.4	30	0.03
20P	1-RA-05-000POG1-PS-20P	P	12/13/2005	806320	2371940	POG-1	42.3	150	0.15
21P	1-RA-05-000POG1-PS-21P	P	12/16/2005	806150	2371671	POG-1	27.8	1200	1.2
22P	1-RA-05-000POG1-PS-22P	P	12/16/2005	806079	2371761	POG-1	35.3	340	0.34
23P	1-RA-05-000POG1-PS-23P	P	12/16/2005	806119	2371841	POG-1	17.3	<27	<0.027
1comp	1-RA-05-000POG1-PS-1(A)comp	C	12/14/2005	806662	2371762	POG-1	26.3	910	0.91
2comp	1-RA-05-000POG1-PS-2(D)comp	C	12/20/2005	806636	2371859	POG-1	30.0	2100	2.1
3comp	1-RA-05-000POG1-PS-3(A,B)comp	C	12/14/2005	806661	2371971	POG-1	34.1	280	0.28
3comp	1-RA-05-000POG1-PS-3(A,B)comp dup	C/DUP	12/14/2005	806661	2371971	POG-1	30.4	320	0.32
4comp	1-RA-05-000POG1-PS-4(A,B)comp	C	12/19/2005	806615	2372028	POG-1	19.8	1100	1.1
5comp	No Recovery	NSS	12/15/2005	806532	2371230	POG-1	NV	16.8	0.0168
6comp	1-RA-05-000POG1-PS-6(B,C,D)comp	C	12/19/2005	806446	2371286	POG-1	23.9	12000	12
7comp	1-RA-05-000POG1-PS-7(D)comp	C	12/19/2005	806497	2371393	POG-1	21.3	4400	4.4
8comp	1-RA-05-000POG1-PS-8(B,C,D)comp	C	12/19/2005	806433	2371512	POG-1	18.6	12000	12
9comp	1-RA-05-000POG1-PS-9(C)comp	C	12/20/2005	806488	2371643	POG-1	34.6	730	0.73
10comp	1-RA-05-000POG1-PS-10(B,D)comp	C	12/19/2005	806452	2371743	POG-1	35.9	740	0.74
11comp	1-RA-05-000POG1-PS-11(B,D)comp	C	12/19/2005	806510	2371857	POG-1	27.1	6000	6
12comp	1-RA-05-000POG1-PS-12(B,C,D)comp	C	12/19/2005	806461	2371979	POG-1	30.3	4000	4
12comp	1-RA-05-000POG1-PS-12(B,C,D)comp dup	C/DUP	12/19/2005	806461	2371979	POG-1	33.6	800	0.8
13comp	1-RA-05-000POG1-PS-13(A,B)comp	C	12/19/2005	806531	2372026	POG-1	14.1	450	0.45
14comp	1-RA-05-000POG1-PS-14(A)comp	C	12/20/2005	806351	2371342	POG-1	29.4	15000	15
15comp	1-RA-05-000POG1-PS-15(A,B)comp	C	12/20/2005	806321	2371404	POG-1	39.3	23000	23
15comp	1-RA-05-000POG1-PS-15(A,B)comp dup	C/DUP	12/20/2005	806321	2371404	POG-1	44.1	9400	9.4
16comp	1-RA-05-000POG1-PS-16(B,D)comp	C	12/20/2005	806322	2371512	POG-1	25.4	1300	1.3
17comp	1-RA-05-000POG1-PS-17(A,D)comp	C	12/20/2005	806258	2371631	POG-1	26.3	7400	7.4
18comp	1-RA-05-000POG1-PS-18(A,D)comp	C	12/20/2005	806316	2371739	POG-1	29.0	680	0.68
19comp	1-RA-05-000POG1-PS-19(A,B,D)comp	C	12/20/2005	806256	2371859	POG-1	53.6	120	0.12
20comp	1-RA-05-000POG1-PS-20(A,C)comp	C	12/14/2005	806338	2371950	POG-1	46.4	95	0.095
21comp	1-RA-05-000POG1-PS-21(A,B)comp	C	12/20/2005	806143	2371664	POG-1	26.2	25000	25
22comp	1-RA-05-000POG1-PS-22(A,B,C)comp	C	12/19/2005	806106	2371745	POG-1	40.9	110	0.11
23comp	1-RA-05-000POG1-PS-23(A-D)comp	C	12/19/2005	806126	2371847	POG-1	38.8	96	0.096

NV = No Value

Sample Type Notes:

- P = Primary
- S = Secondary
- C = Composite
- DUP = Duplicates
- NSS = No Soft Sediment

SPS = State Plane South

DMU = Dredge Management Unit

ppb = parts per billion

ppm = parts per million

Composite Samples Collection Date is the day the sample was sent to the lab.

Data from the 2005 RA Summary Report, Appendix E, Table E-3

Prepared by: TMK1
 Checked by: SVF

Table B-4
Lower Fox River - OU1
Summary of 2006 Post-Dredge Sediment Sampling Results

ID	Sample ID	Sample Type (P/S/NSS)	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	PCB Results (ppb)	PCB Results (ppm)	Comments
CD2S-North Primary Samples										
1P	1-RA-06-0D2S-PS-1P (0-4)	P	5/23/2006	805954	2369415	3D2S	54.0	600	0.6	
1P Dup	1-RA-06-0D2S-PS-1P (0-4) (DUP)	P/DUP	5/23/2006	805954	2369415	3D2S	54.4	530	0.53	
3P	No Recovery	P/NSS	5/23/2006	806091	2369483	3D2S	NA	16.8	0.0168	
4P	No Recovery	P/NSS	5/24/2006	806195	2369382	4D2S	NA	16.8	0.0168	
5P	1-RA-06-0D2S-PS-5P (0-4)	P	5/23/2006	806058	2369307	3D2S	18.3	2900	2.9	
5P	1-RA-06-0D2S-PS-5P (4-8)	P	5/23/2006	806058	2369307	3D2S	24.6	1800	1.8	
5P	1-RA-06-0D2S-PS-5P (8-12)	P	5/23/2006	806058	2369307	3D2S	29.4	67	0.067	
6P	1-RA-06-0D2S-PS-6P (0-4)	P	5/24/2006	806289	2369103	5D2S	18.9	900	0.9	
7P	1-RA-06-0D2S-PS-7P (0-4)	P	5/24/2006	806369	2369346	6D2S	22.7	360	0.36	
8P	1-RA-06-0D2S-PS-8P (0-4)	P	5/24/2006	806443	2369207	6D2S	19.2	1100	1.1	
8P	1-RA-06-0D2S-PS-8P (4-8)	P	5/25/2006	806443	2369207	6D2S	24.0	120	0.12	
9P	1-RA-06-0D2S-PS-9P (0-4)	P	6/8/2006	806657	2369301	7D2S	32.4	1100	1.1	
23P	1-RA-06-000C-PS-23P (0-4)	P	6/8/2006	806394	2369074	11C	24.2	1100	1.1	
23P	1-RA-06-000C-PS-23P (4-8)	P	6/8/2006	806394	2369074	11C	43.9	480	0.48	
24P	1-RA-06-000C-PS-24P (0-4)	P	6/8/2006	806443	2368975	11C	21.6	6600	6.6	
24P	1-RA-06-000C-PS-24P (4-8)	P	6/8/2006	806443	2368975	11C	41.7	980	0.98	
28P	1-RA-06-000C-PS-28P (0-4)	P	6/9/2006	806649	2369219	13C	37.4	680	0.68	
29P	1-RA-06-000C-PS-29P (0-4)	P	6/9/2006	806632	2369094	13C	47.0	900	0.9	
30P	1-RA-06-000C-PS-30P (0-4)	P	6/8/2006	806576	2368956	12C	28.6	1400	1.4	
30P Dup	1-RA-06-000C-PS-30P (0-4) (DUP)	P/DUP	6/8/2006	806576	2368956	12C	35.8	960	0.96	
30P	1-RA-06-000C-PS-30P (4-8)	P	6/8/2006	806576	2368956	12C	49.1	280	0.28	
30P Dup	1-RA-06-000C-PS-30P (4-8) (DUP)	P/DUP	6/8/2006	806576	2368956	12C	50.4	330	0.33	
31P	1-RA-06-000C-PS-31P (0-4)	P	6/9/2006	806657	2368868	14C	49.8	4200	4.2	
32P	1-RA-06-000C-PS-32P (0-4)	P	6/9/2006	806742	2369204	13C	49.2	660	0.66	
33P	1-RA-06-000C-PS-33P (0-4)	P	6/9/2006	806737	2369024	14C	55.0	330	0.33	
CD2S-North Composite Secondary Samples										
1BC	1-RA-06-0D2S-PS-1BC (0-4)	S	6/2/2006	805971	2369412	3D2S	37.7	800	0.8	
3A	1-RA-06-0D2S-PS-3A (0-4)	S	5/25/2006	806068	2369471	4D2S	74.3	<27	<0.027	
4ABC	1-RA-06-0D2S-PS-4ABC (0-4)	S	5/25/2006	806175	2369407	4D2S/5D2S	50.2	230	0.23	
4ABC Dup	1-RA-06-0D2S-PS-4ABC (0-4) (DUP)	S/DUP	5/25/2006	806175	2369407	4D2S/5D2S	39.7	420	0.42	
5A-D	1-RA-06-0D2S-PS-5A-D (0-4)	S	6/2/2006	806135	2369262	4D2S/5D2S	23.2	1900	1.9	
5ACD	1-RA-06-0D2S-PS-5ACD (4-8)	S	6/21/2006	806135	2369262	4D2S/5D2S	23.0	1200	1.2	
6AB	1-RA-06-0D2S-PS-6AB (0-4)	S	5/25/2006	806318	2369139	5D2S	17.8	1000	1	
7ABC	1-RA-06-0D2S-PS-7ABC (0-4)	S	6/12/2006	806423	2369340	7D2S	46.5	64	0.064	
8ABC	1-RA-06-0D2S-PS-8ABC (0-4)	S	6/12/2006	806449	2369224	7D2S	20.2	1100	1.1	
8ABC	1-RA-06-0D2S-PS-8ABC (4-8)	S	6/30/2006	806449	2369224	7D2S	24.8	300	0.3	
8ABC Dup	1-RA-06-0D2S-PS-8ABC (4-8) (DUP)	S/DUP	6/30/2006	806449	2369224	7D2S	24.3	330	0.33	
9AB	1-RA-06-0D2S-PS-9AB (0-4)	S	6/9/2006	806667	2369310	7D2S	42.2	470	0.47	
23A-D Dup	1-RA-06-000C-PS-23A-D (0-4) (DUP)-RE	S/DUP	6/9/2006	806400	2369092	11C/12C	21.9	1000	1	
23A-D	1-RA-06-000C-PS-23A-D (0-4)	S	6/9/2006	806400	2369092	11C/12C	21.9	1600	1.6	
23A-D	1-RA-06-000C-PS-23A-D (4-8)	S	6/30/2006	806400	2369092	11C/12C	27.8	1200	1.2	
23A-D Dup	1-RA-06-000C-PS-23A-D (4-8) (DUP)	S/DUP	6/30/2006	806400	2369092	11C/12C	28.1	1000	1	
23ABC	1-RA-06-000C-PS-23ABC (8-12)	S	7/19/2006	806400	2369092	11C/12C	48.4	54	0.054	
24A-D	1-RA-06-000C-PS-24A-D (0-4)	S	6/12/2006	806451	2368990	11C/12C	40.6	960	0.96	
28A-D	1-RA-06-000C-PS-28A-D (0-4)	S	6/12/2006	806607	2369182	12C/13C	37.3	670	0.67	
29A-D	1-RA-06-000C-PS-29A-D (0-4)	S	6/13/2006	806664	2369092	12C/13C/14C	59.8	390	0.39	
30A-D	1-RA-06-000C-PS-30A-D (0-4)	S	6/13/2006	806586	2368978	12C/14C	35.8	3000	3	
30BCD	1-RA-06-000C-PS-30BCD (4-8)	S	6/30/2006	806557	2368979	12C/14C	40.6	810	0.81	
31A-D	1-RA-06-000C-PS-31A-D (0-4)	S	6/13/2006	806628	2368867	12C/14C	33.2	3100	3.1	
31ABD	1-RA-06-000C-PS-31AB (4-8) 31D (4-7 1/4)	S	6/30/2006	806628	2368867	12C/14C	43.2	27000	27	
31A	1-RA-06-000C-PS-31A (8-12)	S	6/9/2006	806628	2368867	14C	63.5	14000	14	
32A	1-RA-06-000C-PS-32A (0-4)	S	6/14/2006	806758	2369148	13C	75.2	130	0.13	
33B	1-RA-06-000C-PS-33B (0-4)	S	6/14/2006	806720	2369017	13C	76.4	110	0.11	

ID	Sample ID	Sample Type (P/S/NSS)	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	PCB Results (ppb)	PCB Results (ppm)	Comments
E1-South										
Primary Samples										
1P	1-RA-06-00E1-PS-1P(0-4)	P	11/9/2006	810430	2371680	E1	22	1100	1.1	
1P	1-RA-06-00E1-PS-1P(4-8)	P	11/9/2006	810430	2371680	E1	64.6	43	0.043	
2P	1-RA-06-00E1-PS-2P(0-4)	P	11/9/2006	810424	2371740	E1	21.6	2200	2.2	
2P	1-RA-06-00E1-PS-2P(4-8)	P	11/9/2006	810424	2371740	E1	23.4	600	0.6	
E1-South										
Secondary Samples										
1ABC	1-RA-06-00E1-PS-1ABC(0-4)	S	11/10/2006	810412	2371661	E1	37.9	740	0.74	
2ABC	1-RA-06-00E1-PS-2ABC(0-4)	S	11/10/2006	810408	2371790	E1	18.6	790	0.79	
POG2										
Primary Samples										
1P	1-RA-06-POG2-PS-1P(0-4)	P	10/12/2006	806760	2372180	1POG2	71.9	110	0.11	
2P	1-RA-06-POG2-PS-2P(0-4)	P	10/23/2006	806895	2372114	1POG2	23.6	13000	13	
2P	1-RA-06-POG2-PS-2P(4-8)	P	10/12/2006	806895	2372114	1POG2	29.0	4100	4.1	
2P	1-RA-06-POG2-PS-2P(8-11½)	P	10/12/2006	806895	2372114	1POG2	33.3	2700	2.7	
3P	1-RA-06-POG2-PS-3P(0-4)	P	10/16/2006	807237	2372158	3POG2	29.2	420	0.42	
4P	1-RA-06-POG2-PS-4P(0-4)	P	10/16/2006	807431	2372079	4POG2	18.7	1900	1.9	
4P	1-RA-06-POG2-PS-4P(4-8)	P	10/16/2006	807431	2372079	4POG2	31.3	1300	1.3	
4P	1-RA-06-POG2-PS-4P(8-12)	P	10/16/2006	807431	2372079	4POG2	26.8	1900	1.9	
5P	1-RA-06-POG2-PS-5P(0-4)	P	9/29/2006	807616	2372074	4POG2	18.1	4100	4.1	
5P	1-RA-06-POG2-PS-5P(4-8)	P	9/29/2006	807616	2372074	4POG2	24.7	6800	6.8	
5P	1-RA-06-POG2-PS-5P(8-11¾)	P	9/25/2006	807616	2372074	4POG2	29.8	3800	3.8	
6P	1-RA-06-POG2-PS-6P(0-4)	P	10/16/2006	807833	2372087	5POG2	25.4	1900	1.9	
6P	1-RA-06-POG2-PS-6P(4-8)	P	10/16/2006	807833	2372087	5POG2	31.3	710	0.71	
7P	1-RA-06-POG2-PS-7P(0-4)	P	10/16/2006	808030	2371968	5POG2	23.7	7100	7.1	
7P	1-RA-06-POG2-PS-7P(4-7)	P	10/16/2006	808030	2371968	5POG2	30.5	5500	5.5	
8P	1-RA-06-POG2-PS-8P(0-4)	P	11/6/2006	808234	2371994	6POG2	19.4	22000	22	
8P	1-RA-06-POG2-PS-8P(4-8)	P	11/6/2006	808234	2371994	6POG2	29.6	13000	13	
8P	1-RA-06-POG2-PS-8P(8-12)	P	11/6/2006	808234	2371994	6POG2	55.8	1800	1.8	
9P	1-RA-06-POG2-PS-9P(0-4)	P	11/6/2006	808639	2371948	7POG2	25.2	73000	73	
9P	1-RA-06-POG2-PS-9P(4-8)	P	11/6/2006	808639	2371948	7POG2	51.5	1300	1.3	
9P Dup	1-RA-06-POG2-PS-9P(4-8)(Dup)	P/DUP	11/6/2006	808639	2371948	7POG2	53.2	4300	4.3	
9P RD	1-RA-06-POG2-PSRD-9P(0-4)	P	11/17/2006	808638	2371949	7POG2	47.9	2700	2.7	
10P	1-RA-06-POG2-PS-10P(0-4)	P	11/14/2006	808765	2371925	8POG2	22.7	8200	8.2	
10P	1-RA-06-POG2-PS-10P(4-8)	P	11/14/2006	808765	2371925	8POG2	36.4	2000	2	
10P	1-RA-06-POG2-PS-10P(8-11½)	P	11/14/2006	808765	2371925	8POG2	51.1	190	0.19	
11P	1-RA-06-POG2-PS-11P(0-4)	P	11/15/2006	809026	2371855	9POG2	26.4	620	0.62	
12P	1-RA-06-POG2-PS-12P(0-4)	P	11/16/2006	809211	2371939	9POG2	25.2	1900	1.9	
12P	1-RA-06-POG2-PS-12P(4-8)	P	11/16/2006	809211	2371939	9POG2	29.5	2500	2.5	
13P	1-RA-06-POG2-PS-13P(0-4)	P	11/15/2006	809427	2371856	10POG2	24.7	3800	3.8	
13P	1-RA-06-POG2-PS-13P(4-8)	P	11/15/2006	809427	2371856	10POG2	33.6	650	0.65	
14P	1-RA-06-POG2-PS-14P(0-4)	P	11/14/2006	810025	2371747	11POG2	19.7	3700	3.7	
14P	1-RA-06-POG2-PS-14P(4-8)	P	11/14/2006	810025	2371747	11POG2	22.0	6400	6.4	
14P	1-RA-06-POG2-PS-14P(8-12)	P	11/14/2006	810025	2371747	11POG2	24.0	40	0.04	
15P	1-RA-06-POG2-PS-15P(0-4)	P	11/6/2006	810210	2371730	12POG2	20.4	490	0.49	
16P	1-RA-06-POG2-PS-16P(0-4)	P	11/6/2006	810222	2371858	12POG2	19.2	1300	1.3	
16P	1-RA-06-POG2-PS-16P(4-8)	P	11/6/2006	810222	2371858	12POG2	33.6	2200	2.2	
16P	1-RA-06-POG2-PS-16P(8-11½)	P	11/6/2006	810222	2371858	12POG2	26.0	200	0.2	
POG2										
Composite Secondary Samples										
1AD	1-RA-06-POG2-PS-1A(0-3½)1D(0-3)	S	10/12/2006	806747	2372179	1POG2	49.7	210	0.21	
2A-D	1-RA-06-POG2-PS-2A-D(0-4)	S	11/7/2006	806925	2372155	1POG2, 2POG2	28.1	1500	1.5	
2A-D Dup	1-RA-06-POG2-PS-2A-D(0-4)(Dup)	S/DUP	11/7/2006	806925	2372155	1POG2, 2POG2	26.4	1300	1.3	
2D	1-RA-06-POG2-PS-2D(4-7¼)	S	10/12/2006	806925	2372155	1POG2	87.4	26	0.026	
3A-D	1-RA-06-POG2-PS-3A-D(0-4)	S	11/7/2006	807155	2372125	2POG2	24.0	1100	1.1	
3A-D Dup	1-RA-06-POG2-PS-3A-D(0-4)(Dup)	S/DUP	11/7/2006	807155	2372125	2POG2	22.8	1200	1.2	
3ACD	1-RA-06-POG2-PS-3ACD(4-8)3B(4-7½)	S	11/17/2006	807155	2372125	2POG2	36.4	880	0.88	
4A-D	1-RA-06-POG2-PS-4A-D(0-4)	S	10/17/2006	807385	2372095	3POG2	37.4	750	0.75	
5A-D	1-RA-06-POG2-PS-5A-D(0-4)	S	10/2/2006	807590	2372075	4POG2	21.7	2900	2.9	
5A-D Dup	1-RA-06-POG2-PS-5A-D(0-4)(Dup)	S/DUP	10/2/2006	807590	2372075	4POG2	21.7	3200	3.2	
5A-D	1-RA-06-POG2-PS-5A-D(4-8)	S	10/11/2006	807590	2372075	4POG2	27.4	2800	2.8	

ID	Sample ID	Sample Type (P/S/NSS)	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	PCB Results (ppb)	PCB Results (ppm)	Comments
107P	1-RA-06-POG3-PS-107P(0-4)	P	11/1/2006	808700	2371720	31POG3N	65.1	<27	<0.027	
108P	1-RA-06-POG3-PS-108P(0-4)	P	11/1/2006	808900	2371420	32POG3N	47.8	1400	1.4	
109P	1-RA-06-POG3-PS-109P(0-4)	P	11/2/2006	808827	2371504	32POG3N	23.1	120	0.12	
110P	1-RA-06-POG3-PS-110P(0-4)	P	11/2/2006	808901	2371627	32POG3N	19.0	57	0.057	
111P	1-RA-06-POG3-PS-111P(0-4)	P	11/2/2006	808860	2371740	32POG3N	63.5	45	0.045	
112P	1-RA-06-POG3-PS-112P(0-4)	P	11/9/2006	809000	2371475	33POG3N	27.2	2200	2.2	
112P Dup	1-RA-06-POG3-PS-112P(0-4)(Dup)	P/DUP	11/15/2006	809000	2371475	33POG3N	25.9	560	0.56	
112P	1-RA-06-POG3-PS-112P(4-8)	P	11/9/2006	809000	2371475	33POG3N	25.6	42	0.042	
113P	1-RA-06-POG3-PS-113P(0-4)	P	11/16/2006	809101	2371524	34POG3N	37.6	<13	<0.013	
114P	1-RA-06-POG3-PS-114P(0-4)	P	11/15/2006	809024	2371620	33POG3N	25.1	4400	4.4	
114P	1-RA-06-POG3-PS-114P(4-8)	P	11/9/2006	809024	2371620	33POG3N	36.3	180	0.18	
POG3-North										
Composite Secondary Samples										
87C	1-RA-06-POG3-PS-87C(0-4)	S	10/27/2006	808479	2371540	30POG3N	61.2	3800	3.8	
88A	1-RA-06-POG3-PS-88A(0-4)	S	9/7/2006	808388	2371860	25POG3	68.8	790	0.79	
89A	1-RA-06-POG3-PS-89A(0-4)	S	7/14/2006	808929	2371821	28POG3	64.5	48	0.048	
90A	1-RA-06-POG3-PS-90A(0-4)	S	7/14/2006	809118	2371800	28POG3	59.5	610	0.61	
90BCD	1-RA-06-POG3-PS-90BCD(0-4)	S	11/20/2006	809093	2371721	33POG3N, 34POG3N	69.8	190	0.19	
91A	1-RA-06-POG3-PS-91A(0-4)	S	7/14/2006	809033	2371805	28POG3	57.0	210	0.21	
92AB	1-RA-06-POG3-PS-92AB(0-4)	S	7/18/2006	809302	2371658	28POG3	43.3	270	0.27	
93A-D	1-RA-06-POG3-PS-93A-D(0-4)	S	7/18/2006	809212	2371741	28POG3	57.3	610	0.61	
93A-D Dup	1-RA-06-POG3-PS-93A-D(0-4)(Dup)	S/DUP	7/18/2006	809212	2371741	28POG3	60.0	660	0.66	
94A	1-RA-06-POG3-PS-94A(0-4)	S	7/14/2006	809347	2371782	28POG3	27.8	5800	5.8	
94A	1-RA-06-POG3-PS-94A(4-8)	S	7/14/2006	809347	2371782	28POG3	39.6	4100	4.1	
94A RD	1-RA-06-POG3-PSRD-94A(0-4)	S	10/9/2006	809347	2371782	28POG3	56.0	490	0.49	
96ABC	1-RA-06-POG3-PS-96ABC(0-4)	S	10/27/2006	809496	2371713	29POG3	38.7	4100	4.1	
96AB	1-RA-06-POG3-PS-96-AB(4-8)	S	11/3/2006	809496	2371713	29POG3	29.4	6300	6.3	
97A	1-RA-06-POG3-PS-97A(0-4)	S	7/14/2006	809383	2371772	28POG3	36.7	4700	4.7	
97A	1-RA-06-POG3-PS-97A(4-8)	S	7/14/2006	809383	2371772	28POG3	34.0	850	0.85	
99ABC	1-RA-06-POG3-PS-99ABC(0-4)	S	10/27/2006	809634	2371725	29POG3	20.8	1400	1.4	
99A	1-RA-06-POG3-PS-99A(4-8)	S	10/26/2006	809634	2371725	29POG3	26.9	6900	6.9	
104ABC	1-RA-06-POG3-PS-104AB(0-4)104C(0-3)	S	10/30/2006	808520	2371627	30POG3N	45.2	180	0.18	
105A-D	1-RA-06-POG3-PS-105A-D(0-4)	S	11/2/2006	808711	2371496	30POG3N, 31POG3N	67.8	<27	<0.027	
106A-D	1-RA-06-POG3-PS-106A-D(0-4)	S	11/2/2006	808645	2371626	30POG3N, 31POG3N	39.1	6200	6.2	
106AC	1-RA-06-POG3-PS-106AC(4-8)	S	11/8/2006	808645	2371626	30POG3N, 31POG3N	28.1	1800	1.8	
106AC	1-RA-06-POG3-PS-106A(8-11½)106C(8-11½)	S	12/1/2006	808645	2371626	30POG3N, 31POG3N	40.7	25	0.025	
107AC	1-RA-06-POG3-PS-107AC(0-4)	S	11/2/2006	808684	2371712	30POG3N, 31POG3N	67.0	140	0.14	
108ABC	1-RA-06-POG3-PS-108AC(0-4)108B(0-3¼)	S	11/10/2006	808922	2371449	32POG3N, 33POG3N	73.6	600	0.6	
109ACD	1-RA-06-POG3-PS-109A(0-3¼)109CD(0-4)	S	11/2/2006	808849	2371503	30POG3N, 31POG3N	75.0	130	0.13	
110A-D	1-RA-06-POG3-PS-110A-D(0-4)	S	11/10/2006	808914	2371626	31POG3N, 32POG3N	40.9	1500	1.5	
110A-D Dup	1-RA-06-POG3-PS-110A-D(0-4)(Dup)	S/DUP	11/10/2006	808914	2371626	31POG3N, 32POG3N	38.0	57	0.057	
110AC	1-RA-06-POG3-PS-110AC(4-8)	S	11/21/2006	808914	2371626	32POG3N, 33POG3N	50.0	<13	<0.013	
111ABC	1-RA-06-POG3-PS-111ABC(0-4)	S	11/10/2006	808850	2371748	32POG3N, 33POG3N	68.4	270	0.27	
112A	1-RA-06-POG3-PS-112A(0-4)	S	11/9/2006	808991	2371476	33POG3N	22.5	340	0.34	
113A-D	1-RA-06-POG3-PS-113A-D(0-4)	S	11/20/2006	809104	2371510	33POG3N, 34POG3N	25.9	340	0.34	
113A-D Dup	1-RA-06-POG3-PS-113A-D(0-4)(Dup)	S/DUP	11/20/2006	809104	2371510	33POG3N, 34POG3N	25.2	420	0.42	
114A-D	1-RA-06-POG3-PS-114A-D(0-4)	S	11/20/2006	809049	2371630	33POG3N, 34POG3N	54.8	450	0.45	
POG3-South										
Primary Samples										
1P	1-RA-06-POG3-PS-1P(0-4)	P	6/1/2006	806548	2371143	1POG3	67.2	150	0.15	
2P	1-RA-06-POG3-PS-2P(0-4)	P	6/1/2006	806559	2371459	2POG3	37.8	8200	8.2	
2P RD	1-RA-06-POG3-PSRD-2P(0-4)	P	10/9/2006	806559	2371459	2POG3	72.2	<27	<0.027	
2P Dup RD	1-RA-06-POG3-PSRD-2P(0-4)(Dup)	P/DUP	10/9/2006	806559	2371459	2POG3	81.3	<27	<0.027	
3P	1-RA-06-POG3-PS-3P(0-4)	P	6/5/2006	806540	2371513	3POG3	22.2	390	0.39	
4P	1-RA-06-POG3-PS-4P(0-4)	P	6/5/2006	806538	2371598	3POG3	65.5	3400	3.4	
5P	1-RA-06-POG3-PS-5P(0-4)	P	6/20/2006	806718	2370857	5POG3	74.5	28	0.028	
5P Dup	1-RA-06-POG3-PS-5P(0-4)(DUP)	P/DUP	6/20/2006	806718	2370857	5POG3	71.6	28	0.028	
6P	1-RA-06-POG3-PS-6P(0-4)	P	6/1/2006	806691	2370932	1POG3	34.8	210	0.21	
7P	1-RA-06-POG3-PS-7P(0-4)	P	6/20/2006	806709	2371053	5POG3	54.5	4100	4.1	
8P NSS	No Recovery	P/NSS	6/1/2006	806642	2371172	1POG3	NA	16.8	0.0168	
9P NSS	No Recovery	P/NSS	6/20/2006	806717	2371276	5POG3	NA	16.8	0.0168	

ID	Sample ID	Sample Type (P/S/NSS)	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	PCB Results (ppb)	PCB Results (ppm)	Comments
10P	1-RA-06-POG3-PS-10P (0-4)	P	6/1/2006	806658	2371417	2POG3	28.7	1200	1.2	
10P Dup	1-RA-06-POG3-PS-10P (0-4) (DUP)	P/DUP	6/1/2006	806658	2371417	2POG3	26.2	7800	7.8	
10P	1-RA-06-POG3-PS-10P (4-8)	P	6/1/2006	806658	2371417	2POG3	34.2	7100	7.1	
10P NSS RD	No Recovery	P/NSS	10/9/2006	806656	2371418	2POG3	NA	16.8	0.0168	
11P	1-RA-06-POG3-PS-11P (0-4)	P	6/29/2006	806713	2371514	4POG3	47.4	790	0.79	
12P	1-RA-06-POG3-PS-12P (0-4)	P	6/5/2006	806638	2371624	3POG3	57.5	180	0.18	
13P	1-RA-06-POG3-PS-13P (0-4)	P	6/29/2006	806723	2371717	4POG3	36.0	1100	1.1	
14P	1-RA-06-POG3-PS-14P (0-4)	P	6/20/2006	806800	2370900	5POG3	65.7	41	0.041	
15P	1-RA-06-POG3-PS-15P (0-4)	P	6/29/2006	806910	2370935	6POG3	47.6	280	0.28	
16P	1-RA-06-POG3-PS-16P (0-4)	P	6/29/2006	806829	2371051	6POG3	34.3	7800	7.8	
16P	1-RA-06-POG3-PS-16P (4-8)	P	6/29/2006	806829	2371051	6POG3	63.7	300	0.3	
16P RD	No Recovery	P/NSS	10/9/2006	806830	2371038	6POG3	NA	16.8	0.0168	
16P RD2	1-RA-06-POG3-PSRD-16P(0-4)	P	11/14/2006	806830	2371038	6POG3	74.3	240	0.24	
17P	1-RA-06-POG3-PS-17P (0-3 1/2)	P	6/29/2006	806910	2371169	6POG3	62.7	25000	25	
17P RD	1-RA-06-POG3-PSRD-17P(0-4)	P	9/14/2006	806909	2371169	6POG3	75.4	4400	4.4	
18P	1-RA-06-POG3-PS-18P (0-4)	P	6/29/2006	806840	2371279	6POG3	70.6	1700	1.7	
18P Dup	1-RA-06-POG3-PS-18P (0-4) (DUP)	P/DUP	6/29/2006	806840	2371279	6POG3	68.1	260	0.26	
19P	1-RA-06-POG3-PS-19P (0-3 1/2)	P	6/28/2006	806908	2371394	7POG3	53.5	6400	6.4	
19P NSS RD	No Recovery	P	9/14/2006	806908	2371394	7POG3	NA	16.8	0.0168	
20P NSS	No Recovery	P/NSS	6/28/2006	806826	2371510	7POG3	NA	16.8	0.0168	
21P	1-RA-06-POG3-PS-21P (0-4)	P	6/28/2006	806880	2371617	7POG3	53.4	39000	39	
21P	1-RA-06-POG3-PS-21P (4-7)	P	6/28/2006	806880	2371617	7POG3	81.2	91	0.091	
21P RD	1-RA-06-POG3-PSRD-21P (0-4)	P	8/30/2006	806880	2371645	7POG3	85.3	49	0.049	
22P	1-RA-06-POG3-PS-22P (0-4)	P	6/28/2006	806836	2371737	7POG3	62.5	130	0.13	
23P NSS	No Recovery	P/NSS	6/28/2006	806874	2371830	7POG3	NA	16.8	0.0168	
24P	1-RA-06-POG3-PS-24P(0-4)	P	8/15/2006	807108	2370871	10POG3	65.8	650	0.65	
25P	1-RA-06-POG3-PS-25P (0-4)	P	7/20/2006	807034	2370936	9POG3	27.7	430	0.43	
26P	1-RA-06-POG3-PS-26P(0-4)	P	8/15/2006	807110	2371050	10POG3	49.8	390	0.39	
27P	1-RA-06-POG3-PS-27P (0-4)	P	7/20/2006	807036	2371163	9POG3	26.2	230	0.23	
28P	1-RA-06-POG3-PS-28P(0-4)	P	8/3/2006	807109	2371284	11POG3	59.1	510	0.51	
29P NSS	No Recovery	P/NSS	7/20/2006	807037	2371391	8POG3	NA	16.8	0.0168	
30P NSS	No Recovery	P/NSS	6/22/2006	807108	2371512	11POG3	NA	16.8	0.0168	
31P NSS	No Recovery	P/NSS	6/22/2006	807157	2371626	11POG3	NA	16.8	0.0168	
32P NSS	No Recovery	P/NSS	9/5/2006	807161	2371821	12POG3	NA	16.8	0.0168	
33P	1-RA-06-POG3-PS-33P(0-4)	P	9/6/2006	807360	2371040	15POG3	72.5	39	0.039	
34P	1-RA-06-POG3-PS-34P(0-4)	P	8/15/2006	807244	2371046	14POG3	54.2	160	0.16	
35P	1-RA-06-POG3-PS-35P(0-4)	P	8/15/2006	807308	2371167	14POG3	59.2	950	0.95	
36P	1-RA-06-POG3-PS-36P(0-4)	P	8/15/2006	807238	2371275	14POG3	40.1	92000	92	
36P	1-RA-06-POG3-PS-36P(4-8)	P	8/15/2006	807238	2371275	14POG3	75.9	220	0.22	
36P RD	1-RA-06-POG3-PSRD-36P(0-4)	P	10/6/2006	807237	2371275	14POG3	63.9	<27	<0.027	
37P	1-RA-06-POG3-PS-37P(0-4)	P	8/30/2006	807306	2371398	13POG3	82.4	64	0.064	
38P	1-RA-06-POG3-PS-38P(0-4)	P	8/30/2006	807235	2371509	13POG3	64.8	5100	5.1	
38P RD	1-RA-06-POG3-PSRD-38P(0-4)	P	10/9/2006	807234	2371508	13POG3	75.4	<27	<0.027	
39P	1-RA-06-POG3-PS-39P(0-4)	P	8/30/2006	807299	2371599	13POG3	58.2	170	0.17	
39P Dup	1-RA-06-POG3-PS-39P(0-4)(Dup)	P/DUP	8/30/2006	807299	2371599	13POG3	63.2	110	0.11	
40P NSS	No Recovery	P/NSS	9/5/2006	807254	2371799	12POG3	NA	16.8	0.0168	
41P	1-RA-06-POG3-PS-41P(0-4)	P	9/5/2006	807309	2371850	12POG3	69.8	85	0.085	
42P	1-RA-06-POG3-PS-42P(0-4)	P	9/6/2006	807421	2371019	15POG3	60.2	220	0.22	
43P	1-RA-06-POG3-PS-43P(0-4)	P	9/6/2006	807508	2371052	15POG3	70.3	83	0.083	
43P Dup	1-RA-06-POG3-PS-43P(0-4)(Dup)	P/DUP	9/6/2006	807508	2371052	15POG3	70.5	83	0.083	
44P	1-RA-06-POG3-PS-44P(0-4)	P	9/6/2006	807439	2371164	15POG3	47.6	540	0.54	
45P	1-RA-06-POG3-PS-45P(0-4)	P	9/13/2006	807507	2371282	16POG3	66.8	84	0.084	
46P	1-RA-06-POG3-PS-46P(0-4)	P	9/13/2006	807436	2371394	16POG3	69.2	<27	<0.027	
47P	1-RA-06-POG3-PS-47P(0-4)	P	9/14/2006	807511	2371509	16POG3	74.2	250	0.25	
47P	1-RA-06-POG3-PS-47P(0-4)(Dup)	P/DUP	9/14/2006	807511	2371509	16POG3	76.4	220	0.22	
48P	1-RA-06-POG3-PS-48P (0-4)	P	6/22/2006	807434	2371618	17POG3	68.6	45	0.045	Vic Vac
49P	1-RA-06-POG3-PS-49P(0-4)	P	8/1/2006	807475	2371743	17POG3	53.2	30000	30	
49P	1-RA-06-POG3-PS-49P(4-8)	P	8/1/2006	807434	2371622	17POG3	65.9	71	0.071	
49P RD	1-RA-06-POG3-PSRD-49P(0-4)	P	9/20/2006	807509	2371723	17POG3	69.4	2600	2.6	
49P RD	1-RA-06-POG3-PSRD-49P(4-8)	P	9/20/2006	807509	2371723	17POG3	64.8	<27	<0.027	

ID	Sample ID	Sample Type (P/S/NSS)	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	PCB Results (ppb)	PCB Results (ppm)	Comments
50P	1-RA-06-POG3-PS-50P(0-4)	P	8/1/2006	807601	2371118	19POG3	63.8	940	0.94	
50P Dup	1-RA-06-POG3-PS-50P(0-4)(DUP)	P/DUP	8/1/2006	807601	2371118	19POG3	64.6	3000	3	
50P	1-RA-06-POG3-PS-50P(4-8)	P	8/1/2006	807601	2371118	19POG3	51.1	46	0.046	
50P RD	1-RA-06-POG3-PSRD-50P(0-4)	P	9/20/2006	807602	2371122	19POG3	41.0	<27	<0.027	
51P	1-RA-06-POG3-PS-51P(0-4)	P	8/2/2006	807707	2371188	20POG3	68.8	1100	1.1	
51P Dup	1-RA-06-POG3-PS-51P(0-4)(DUP)	P/DUP	8/2/2006	807707	2371188	20POG3	67.0	840	0.84	
51P	1-RA-06-POG3-PS-51P(4-8)	P	8/2/2006	807707	2371188	20POG3	59.5	49	0.049	
51P RD	1-RA-06-POG3-PSRD-51P(0-4)	P	10/9/2006	807708	2371186	20POG3	69.1	550	0.55	
52P	1-RA-06-POG3-PS-52P(0-4)	P	8/6/2006	807642	2371276	19POG3	70.0	1200	1.2	
53P	1-RA-06-POG3-PS-53P(0-4)	P	8/2/2006	807708	2371397	20POG3	74.8	11000	11	
53P RD	1-RA-06-POG3-PSRD-53P(0-4)	P	9/20/2006	807708	2371398	20POG3	73.0	700	0.7	
53P RD DUP	1-RA-06-POG3-PSRD-53P(0-4)(Dup)	P/DUP	9/20/2006	807708	2371398	20POG3	72.1	410	0.41	
54P	1-RA-06-POG3-PS-54P(0-4)	P	8/31/2006	807599	2371580	18POG3	71.9	<27	<0.027	
55P	1-RA-06-POG3-PS-55P(0-4)	P	8/31/2006	807660	2371649	18POG3	69.6	57000	57	
55P Dup	1-RA-06-POG3-PS-55P(0-4)(Dup)	P/DUP	8/31/2006	807660	2371649	18POG3	69.3	25000	25	
55P	1-RA-06-POG3-PS-55P(4-8)	P	8/31/2006	807660	2371649	18POG3	69.6	51	0.051	
55P	1-RA-06-POG3-PS-55P(8-11)	P	8/31/2006	807660	2371649	18POG3	65.1	<27	<0.027	
55P RD	1-RA-06-POG3-PSRD-55P(0-4)	P	10/9/2006	807660	2371649	18POG3	72.7	<27	<0.027	
56P	1-RA-06-POG3-PS-56P(0-4)	P	8/31/2006	807630	2371747	18POG3	73.7	150	0.15	
57P	1-RA-06-POG3-PS-57P(0-4)	P	8/31/2006	807708	2371857	18POG3	62.8	11000	11	
57P	1-RA-06-POG3-PS-57P(4-8)	P	8/31/2006	807708	2371857	18POG3	65.0	<27	<0.027	
57P RD	1-RA-06-POG3-PSRD-57P(0-4)	P	10/6/2006	807709	2371856	18POG3	69.0	<27	<0.027	
58P	1-RA-06-POG3-PS-58P(0-4)	P	8/31/2006	807642	2371921	18POG3	47.3	<27	<0.027	
59P	1-RA-06-POG3-PS-59P(0-4)	P	8/2/2006	807869	2371200	20POG3	73.8	230	0.23	
60P	1-RA-06-POG3-PS-60P(0-4)	P	8/17/2006	807906	2371279	21POG3	70.0	310	0.31	
61P	1-RA-06-POG3-PS-61P(0-4)	P	8/2/2006	807838	2371405	20POG3	56.7	250	0.25	
62P	1-RA-06-POG3-PS-62P(0-3¼)	P	7/31/2006	807931	2371515	22POG3	67.5	120	0.12	
63P	1-RA-06-POG3-PS-63P(0-4)	P	8/17/2006	807930	2371630	21POG3	73.4	810	0.81	
64P	1-RA-06-POG3-PS-64P (0-4)	P	7/13/2006	808153	2370789	26POG3	61.1	<27	<0.027	
65P	1-RA-06-POG3-PS-65P (0-4)	P	7/13/2006	808122	2370750	26POG3	62.6	60	0.06	
66P	1-RA-06-POG3-PS-66P(0-4)	P	8/23/2006	808110	2371200	23POG3	69.6	200	0.2	
67P	1-RA-06-POG3-PS-67P(0-4)	P	8/23/2006	808032	2371278	23POG3	70.3	28000	28	
67P	1-RA-06-POG3-PS-67P(4-7½)	P	8/23/2006	808032	2371278	23POG3	78.4	<27	<0.027	
67P RD	1-RA-06-POG3-PSRD-67P(0-3½)	P	10/9/2006	808030	2371277	23POG3	77.4	84	0.084	
68P	1-RA-06-POG3-PS-68P(0-3½)	P	8/23/2006	808106	2371399	23POG3	68.9	1700	1.7	
69P	1-RA-06-POG3-PS-69P(0-4)	P	7/31/2006	808037	2371513	22POG3	76.8	120	0.12	
70P	1-RA-06-POG3-PS-70P(0-3½)	P	9/14/2006	808106	2371625	24POG3	67.1	190	0.19	
71P	1-RA-06-POG3-PS-71P(0-4)	P	8/17/2006	808051	2371690	21POG3	78.0	110	0.11	
72P	1-RA-06-POG3-PS-72P(0-4)	P	9/14/2006	808121	2371860	24POG3	57.0	<27	<0.027	
73P	1-RA-06-POG3-PS-73P(0-4)	P	9/14/2006	808069	2371930	24POG3	49.1	<27	<0.027	
74P	1-RA-06-POG3-PS-74P (0-4)	P	7/13/2006	808187	2370792	26POG3	70.8	68	0.068	
75P	1-RA-06-POG3-PS-75P (0-4)	P	7/18/2006	808298	2370850	27POG3	58.2	<27	<0.027	
76P	1-RA-06-POG3-PS-76P (0-4)	P	7/18/2006	808233	2370932	27POG3	70.8	240	0.24	
77P	1-RA-06-POG3-PS-77P (0-4)	P	7/18/2006	808277	2371020	27POG3	77.8	65	0.065	
78P	1-RA-06-POG3-PS-78P(0-4)	P	8/23/2006	808200	2371230	23POG3	74.2	280	0.28	
79P	1-RA-06-POG3-PS-79P(0-4)	P	8/23/2006	808258	2371301	23POG3	65.3	340	0.34	
79P Dup	1-RA-06-POG3-PS-79P(0-4)(Dup)	P/DUP	8/23/2006	808258	2371301	23POG3	66.5	190	0.19	
80P	1-RA-06-POG3-PS-80P(0-4)	P	8/23/2006	808224	2371400	23POG3	58.4	2400	2.4	
80P	1-RA-06-POG3-PS-80P(4-8)	P	8/23/2006	808224	2371400	23POG3	69.3	98	0.098	
81P	1-RA-06-POG3-PS-81P(0-4)	P	9/13/2006	808311	2371531	25POG3	16.2	150	0.15	
82P	1-RA-06-POG3-PS-82P(0-4)	P	9/14/2006	808230	2371622	24POG3	57.6	900	0.9	
83P	1-RA-06-POG3-PS-83P(0-4)	P	9/6/2006	808300	2371739	25POG3	71.4	170	0.17	
84P	1-RA-06-POG3-PS-84P(0-4)	P	9/14/2006	808232	2371857	24POG3	60.4	<27	<0.027	
85P	1-RA-06-POG3-PS-85P(0-4)	P	9/7/2006	808340	2371899	25POG3	34.3	28000	28	
85P RD	1-RA-06-POG3-PSRD-85P(0-3½)	P	10/9/2006	808341	2371901	25POG3	68.4	<27	<0.027	
86P	1-RA-06-POG3-PS-86P (0-4)	P	7/18/2006	808399	2370882	25POG3	61.5	32	0.032	
87P	1-RA-06-POG3-PS-87P(0-4)	P	9/7/2006	808401	2371562	25POG3	17.2	1600	1.6	
87P RD	1-RA-06-POG3-PSRD-87P(0-4)	P	10/9/2006	808401	2371564	25POG3	64.5	<27	<0.027	
VV1	1-RA-06-POG3-PS-VV1 (0-4)	P/VV	6/22/2006	807188	2371487	11POG3	73.1	170	0.17	Vic Vac
VV2	No Recovery	P/VV/NSS	6/22/2006	807149	2371563	11POG3	NA	16.8	0.0168	Vic Vac
VV3	No Recovery	P/VV/NSS	6/22/2006	807366	2371534	17POG3	NA	16.8	0.0168	Vic Vac

ID	Sample ID	Sample Type (P/S/NSS)	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	PCB Results (ppb)	PCB Results (ppm)	Comments
34A-D Dup	1-RA-06-POG3-PS-34A-D(0-4)Dup	S/DUP	8/17/2006	807255	2371052	10POG3, 14POG3, 15POG3	59.4	210	0.21	
35A-D	1-RA-06-POG3-PS-35A-D(0-4)	S	9/7/2006	807285	2371167	14POG3	52.6	940	0.94	
35A-D Dup	1-RA-06-POG3-PS-35A-D(0-4)(Dup)	S/DUP	9/7/2006	807285	2371167	14POG3	51.8	3100	3.1	
36ACD	1-RA-06-POG3-PS-36ACD(0-4)	S	9/1/2006	807255	2371297	13POG3, 14POG3	69.2	600	0.6	
37A-D	1-RA-06-POG3-PS-37ABD(0-4)37C(0-3½)	S	9/14/2006	807253	2371396	13POG3, 16POG3	76.8	210	0.21	
38A-D	1-RA-06-POG3-PS-38ABC(0-4)38D(0-3)	S	9/1/2006	807253	2371510	11POG3, 13POG3	74.7	58	0.058	
39AB	1-RA-06-POG3-PS-39AB(0-4)	S	9/1/2006	807280	2371612	13POG3	83.4	<27	<0.027	
40ABC	1-RA-06-POG3-PS-40ABC(0-4)	S	9/6/2006	807253	2371774	12POG3	78.9	<27	<0.027	
41ABC	1-RA-06-POG3-PS-41ABC(0-4)	S	9/6/2006	807296	2371840	12POG3	57.8	590	0.59	
42A	1-RA-06-POG3-PS-42A(0-4)	S	9/6/2006	807412	2371019	15POG3	68.7	32	0.032	
43A-D	1-RA-06-POG3-PS-43A-D(0-4)	S	9/7/2006	807488	2371051	19POG3	69.0	300	0.3	
44A-D	1-RA-06-POG3-PS-44A-D(0-4)	S	9/12/2006	807462	2371169	15POG3	56.4	2300	2.3	
44A-D	1-RA-06-POG3-PS-44A-D(4-8)	S	9/20/2006	807462	2371169	15POG3	61.8	140	0.14	
45A-D	1-RA-06-POG3-PS-45ABC(0-4)45D(0-3½)	S	9/14/2006	807498	2371284	15POG3, 16POG3	73.4	590	0.59	
46A-D	1-RA-06-POG3-PS-46ACD(0-4)46B(0-3½)	S	9/14/2006	807454	2371392	16POG3	71.1	350	0.35	
47A-D	1-RA-06-POG3-PS-47A-D(0-4)	S	9/15/2006	807505	2371510	16POG3, 17POG3, 19POG3	73.2	560	0.56	
48A-D	1-RA-06-POG3-PS-48ACD(0-4)48B(0-3½)	S	8/2/2006	807450	2371629	17POG3	72.8	330	0.33	
49ABC	1-RA-06-POG3-PS-49A(0-3½)49BC(0-4)	S	8/2/2006	807494	2371723	17POG3	44.6	15000	15	
49BC	1-RA-06-POG3-PS-49BC(4-8)	S	8/17/2006	807494	2371723	17POG3	70.2	1600	1.6	
49BC	1-RA-06-POG3-PS-49B(8-11¼)49C(8-12)	S	8/30/2006	807494	2371723	17POG3	69.5	<27	<0.027	
49ABC RD	1-RA-06-POG3-PSRD-49ABC(0-4)	S	9/21/2006	807494	2371723	17POG3	71.7	100	0.1	
50A	1-RA-06-POG3-PS-50A(0-3)	S	8/1/2006	807597	2371111	19POG3	61.4	13000	13	
50A RD	1-RA-06-POG3-PSRD-50A(0-4)	S	9/20/2006	807597	2371111	19POG3	66.9	840	0.84	
51ABC	1-RA-06-POG3-PS-51ABC(0-4)	S	8/3/2006	807695	2371186	19POG3	66.8	5900	5.9	
51ABC Dup	1-RA-06-POG3-PS-51ABC(0-4)(DUP)	S/DUP	8/3/2006	807695	2371186	19POG3	66.0	1500	1.5	
51BC	1-RA-06-POG3-PS-51BC(4-8)	S	8/17/2006	807695	2371186	19POG3	64.7	140000	140	
51BC	1-RA-06-POG3-PS-51BC(8-12)	S	8/28/2006	807665	2371171	19POG3	60.2	<27	<0.027	
51ABC RD	1-RA-06-POG3-PSRD-51ABC(0-4)	S	10/11/2006	807695	2371186	19POG3	57.8	48	0.048	
51ABC RD Dup	1-RA-06-POG3-PSRD-51ABC(0-4)(Dup)	S/DUP	10/11/2006	807695	2371186	19POG3	57.8	850	0.85	
52ABD	1-RA-06-POG3-PS-52A(0-4)52B(0-3½)52D(0-3½)	S	8/4/2006	807682	2371281	19POG3	69.1	620	0.62	
53A-D	1-RA-06-POG3-PS-53ABD(0-4)53C(0-3½)	S	8/4/2006	807712	2371397	19POG3, 20POG3	71.8	430	0.43	
54AB	1-RA-06-POG3-PS-54AB(0-4)	S	9/6/2006	807595	2371556	18POG3, 19POG3	57.2	700	0.7	
55AB	1-RA-06-POG3-PS-55A(0-3½)55B(0-4)	S	9/6/2006	807659	2371635	18POG3	65.4	920	0.92	
56A-D	1-RA-06-POG3-PS-56A-D(0-4)	S	9/6/2006	807650	2371745	18POG3	67.2	260	0.26	
56A-D Dup	1-RA-06-POG3-PS-56A-D(0-4)(Dup)	S/DUP	9/6/2006	807650	2371745	18POG3	67.3	970	0.97	
57A-D	1-RA-06-POG3-PS-57A-D(0-4)	S	9/6/2006	807694	2371856	18POG3	66.0	12000	12	
57BCD	1-RA-06-POG3-PS-57BCD(4-8)	S	9/20/2006	807694	2371856	18POG3	71.9	460	0.46	
57A-D RD	1-RA-06-POG3-PSRD-57A-D(0-4)	S	10/9/2006	807694	2371856	18POG3	64.4	<27	<0.027	
57A-D Dup RD	1-RA-06-POG3-PSRD-57A-D(0-4)(Dup)	S/DUP	10/9/2006	807694	2371856	18POG3	64.9	<27	<0.027	
58A	1-RA-06-POG3-PS-58A(0-4)	S	8/31/2006	807621	2371909	18POG3	44.5	36	0.036	
59AB	1-RA-06-POG3-PS-59AB(0-4)	S	8/18/2006	807872	2371196	20POG3, 21POG3	76.6	150	0.15	
60A-D	1-RA-06-POG3-PS-60A-D(0-4)	S	8/18/2006	807890	2371281	20POG3, 21POG3	69.4	1200	1.2	
60A	1-RA-06-POG3-PS-60A(4-8)	S	8/17/2006	807940	2371220	21POG3	71.6	110	0.11	
61A-D	1-RA-06-POG3-PS-61A-D(0-4)	S	8/18/2006	807850	2371396	20POG3, 21POG3	68.3	930	0.93	
62A-D	1-RA-06-POG3-PS-62A-D(0-4)	S	8/3/2006	807903	2371509	20POG3, 22POG3	73.3	2500	2.5	
62C	1-RA-06-POG3-PS-62C(4-8)	S	8/2/2006	807903	2371509	20POG3	76.3	35	0.035	
63A	1-RA-06-POG3-PS-63A(0-4)	S	8/17/2006	807928	2371625	21POG3	64.7	460	0.46	
64A	1-RA-06-POG3-PS-64A (0-4)	S	7/13/2006	808149	2370776	26POG3	68.2	<27	<0.027	
65ABC	1-RA-06-POG3-PS-65ABC (0-4)	S	7/17/2006	808130	2370938	26POG3	73.4	63	0.063	
66ABC	1-RA-06-POG3-PS-66ABC(0-4)	S	8/25/2006	808085	2371189	21POG3, 23POG3	69.6	240	0.24	
67A-D	1-RA-06-POG3-PS-67ACD(0-4)67B(0-3½)	S	8/28/2006	808044	2371281	21POG3, 23POG3	72.7	610	0.61	
67A-D Dup	1-RA-06-POG3-PS-67ACD(0-4)67B(0-3½)(Dup)	S/DUP	8/28/2006	808044	2371281	21POG3, 23POG3	71.4	220	0.22	
68A-D	1-RA-06-POG3-PS-68A-D(0-4)	S	8/25/2006	808031	2371397	22POG3, 23POG3	70.8	290	0.29	
68A-D Dup	1-RA-06-POG3-PS-68A-D(0-4)(Dup)	S/DUP	8/23/2006	808031	2371397	22POG3, 23POG3	71.4	200	0.2	
69A-D	1-RA-06-POG3-PS-69AB(0-3½)69CD(0-4)	S	8/1/2006	807931	2371512	22POG3	70.6	190	0.19	
70A-D	1-RA-06-POG3-PS-70AD(0-3½)70BC(0-4)	S	9/15/2006	808095	2371624	21POG3, 24POG3	76.1	290	0.29	
71AB	1-RA-06-POG3-PS-71AB(0-4)	S	9/15/2006	808064	2371692	21POG3, 24POG3	71.5	52	0.052	
72ABC	1-RA-06-POG3-PS-72ABC(0-4)	S	9/15/2006	808134	2371859	24POG3	67.9	280	0.28	
73A	1-RA-06-POG3-PS-73A(0-4)	S	9/14/2006	808057	2371926	24POG3	65.1	490	0.49	
74A	1-RA-06-POG3-PS-74A (0-4)	S	7/13/2006	808196	2370779	26POG3	66.4	140	0.14	
75ABC	1-RA-06-POG3-PS-75ABC (0-4)	S	7/19/2006	808290	2370844	27POG3	70.4	37	0.037	

ID	Sample ID	Sample Type (P/S/NSS)	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	PCB Results (ppb)	PCB Results (ppm)	Comments
76A-D	1-RA-06-POG3-PS-76A-D(0-4)	S	7/19/2006	808248	2370942	27POG3	72.2	33	0.033	
77AB	1-RA-06-POG3-PS-77AB(0-4)	S	7/19/2006	808268	2371029	27POG3	72.4	210	0.21	
78A	1-RA-06-POG3-PS-78A(0-4)	S	8/23/2006	808212	2371224	23POG3	77.9	180	0.18	
79AB	1-RA-06-POG3-PS-79AB(0-4)	S	8/23/2006	808252	2371288	23POG3	70.4	410	0.41	
80ABC	1-RA-06-POG3-PS-80ABC(0-4)	S	9/15/2006	808245	2371376	23POG3, 24POG3	67.3	480	0.48	
81ABCD	1-RA-06-POG3-PS-81A(0-3)81BCD(0-4)	S	9/15/2006	808295	2371512	24POG3, 25POG3	33.4	15000	15	
81BC	1-RA-06-POG3-PS-81BC(4-8)	S	10/2/2006	808295	2371512	24POG3, 25POG3	51.0	48	0.048	
81A-D RD	1-RA-06-POG3-PSRD-81A-D(0-4)	S	10/10/2006	808295	2371512	24POG3, 25POG3	57.0	200	0.2	
82ACD	1-RA-06-POG3-PS-82ACD(0-4)	S	9/15/2006	808246	2371627	24POG3, 25POG3	47.6	1300	1.3	
82ACD	1-RA-06-POG3-PS-82ACD(4-8)	S	10/2/2006	808246	2371627	24POG3, 25POG3	50.1	3700	3.7	
83A-D	1-RA-06-POG3-PS-83A-D(0-4)	S	9/12/2006	808296	2371745	25POG3	71.0	250	0.25	
84A-D	1-RA-06-POG3-PS-84A-D(0-4)	S	9/15/2006	808247	2371858	24POG3, 25POG3	65.1	180	0.18	
84A-D Dup	1-RA-06-POG3-PS-84A-D(0-4)(Dup)	S/DUP	9/15/2006	808247	2371858	24POG3, 25POG3	65.8	180	0.18	
85A	1-RA-06-POG3-PS-85A(0-4)	S	9/7/2006	808350	2371882	25POG3	45.1	2200	2.2	
85A	1-RA-06-POG3-PS-85A(4-8)	S	9/7/2006	808350	2371882	25POG3	48.0	1600	1.6	
85A	1-RA-06-POG3-PS-85A(8-12)	S	9/7/2006	808350	2371882	25POG3	54.9	1400	1.4	
85A RD	1-RA-06-POG3-PSRD-85A(0-4)	S	10/9/2006	808350	2371882	25POG3	55.9	89	0.089	
86A	1-RA-06-POG3-PS-86A(0-4)	S	7/18/2006	808410	2370875	27POG3	63.1	<27	<0.027	
87AB	1-RA-06-POG3-PS-87AB(0-4)	S	9/14/2006	808390	2371549	25POG3	28.1	13000	13	
87AB	1-RA-06-POG3-PS-87A(4-7¼)87B(4-8)	S	9/21/2006	808390	2371549	25POG3	39.2	36	0.036	
87AB RD	1-RA-06-POG3-PSRD-87AB(0-4)	S	10/11/2006	808390	2371549	25POG3	45.9	42	0.042	
POG4-South										
Primary Samples										
1P	1-RA-06-POG4-PS-1P(0-4)	P	8/31/2006	806908	2372611	1POG4	33.0	250	0.25	
2P	1-RA-06-POG4-PS-2P(0-4)	P	8/31/2006	806971	2372548	1POG4	78.8	<27	<0.027	
3P	1-RA-06-POG4-PS-3P(0-4)	P	9/13/2006	807111	2372637	2POG4	83.2	<27	<0.027	
4P	1-RA-06-POG4-PS-4P(0-4)	P	8/30/2006	807036	2372863	3POG4	34.8	680	0.68	
5P	1-RA-06-POG4-PS-5P(0-4)	P	8/23/2006	807117	2372986	4POG4	23.5	3100	3.1	
5P	1-RA-06-POG4-PS-5P(4-8)	P	8/23/2006	807117	2372986	4POG4	25.2	750	0.75	
6P	1-RA-06-POG4-PS-6P(0-4)	P	8/30/2006	807291	2372708	4POG4	76.0	110	0.11	
7P	1-RA-06-POG4-PS-7P(0-4)	P	8/23/2006	807417	2372807	4POG4	71.9	<27	<0.027	
7P Dup	1-RA-06-POG4-PS-7P(0-4)(Dup)	P/DUP	8/23/2006	807417	2372807	4POG4	71.8	<27	<0.027	
8P	1-RA-06-POG4-PS-8P(0-4)	P	8/23/2006	807249	2372961	4POG4	22.9	3700	3.7	
8P	1-RA-06-POG4-PS-8P(4-8)	P	8/23/2006	807249	2372961	4POG4	27.4	960	0.96	
9P	1-RA-06-POG4-PS-9P(0-4)	P	9/13/2006	807470	2373090	5POG4	57.0	130	0.13	
9P Dup	1-RA-06-POG4-PS-9P(0-4)(Dup)	P/DUP	9/13/2006	807470	2373090	5POG4	57.7	47	0.047	
POG4-South										
Composite Secondary Samples										
1A	1-RA-06-POG4-PS-1A(0-4)	S	8/31/2006	806906	2372596	1POG4	32.5	820	0.82	
2A	1-RA-06-POG4-PS-2A(0-4)	S	8/31/2006	806963	2372554	1POG4	68.4	87	0.087	
3ABC	1-RA-06-POG4-PS-3ABC(0-4)	S	9/18/2006	807103	2372670	2POG4	62.1	<27	<0.027	
4A-D	1-RA-06-POG4-PS-4A-D(0-4)	S	9/18/2006	807049	2372807	1POG4, 2POG4, 3POG4	31.4	590	0.59	
5A-D	1-RA-06-POG4-PS-5A-D(0-4)	S	8/31/2006	807145	2372941	4POG4	32.9	1500	1.5	
5A-D Dup	1-RA-06-POG4-PS-5A-D(0-4)(Dup)	S/DUP	8/31/2006	807145	2372941	4POG4	33.7	1300	1.3	
5BC	1-RA-06-POG4-PS-5BC(4-8)	S	9/14/2006	807145	2372941	4POG4	34.8	820	0.82	
6AB	1-RA-06-POG4-PS-6AB(0-4)	S	8/31/2006	807313	2372712	3POG4	67.2	81	0.081	
7A-D	1-RA-06-POG4-PS-7A-D(0-4)	S	9/18/2006	807400	2372807	4POG4, 5POG4	70.9	<27	<0.027	
8ABCD	1-RA-06-POG4-PS-8ABC(0-4)8D(0-3½)	S	9/18/2006	807366	2372975	4POG4, 5POG4	53.3	390	0.39	
9AB	1-RA-06-POG4-PS-9AB(0-4)	S	9/18/2006	807441	2373074	5POG4	33.6	450	0.45	

SPS = State Plane South
DMU = Dredge Management Unit
ppb = parts per billion
ppm = parts per million
VV - Vic Vac

Data from the 2006 RA Summary Report, Appendix F, Table F-1.

Prepared by: SVF
Checked by: PRB

Table B-5
Lower Fox River - OU1
Summary of 2007 Post-Dredge Sediment Sampling Results

ID	Sample ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	Total PCB (ppb)	Total PCB (ppm)	Comments
Subarea A										
Primary Samples										
1P	1-RA-07-000A-RD-1P0-.45	P	4/27/2007	802355	2368785	1A	70.9	250	0.25	
2P	1-RA-07-000A-RD-2P0-.45	P	4/27/2007	802389	2368841	1A	67.9	23	0.023	
3P	1-RA-07-000A-RD-3P0-.41	P	4/27/2007	802641	2368716	2A	72	35	0.035	
4P	1-RA-07-000A-RD-4P0-.47	P	4/27/2007	802667	2368818	2A	51.5	180	0.18	
5P	1-RA-07-000A-RD-5P0-.67	P	5/10/2007	802949	2368681	3A	50.5	82	0.082	
6P	1-RA-07-000A-RD-6P0-.5	P	5/10/2007	802874	2368699	3A	47.1	570	0.57	
7P	1-RA-07-000A-RD-7P0-.66	P	5/10/2007	803209	2368901	4A	50	190	0.19	
7P/Dup.	1-RA-07-000A-RD-7P0-.66-Dup	P/Dup.	5/10/2007	803209	2368901	4A	53.4	150	0.15	
8P	1-RA-07-000A-RD-8P0-.5	P	5/10/2007	803392	2369015	4A	42.2	230	0.23	
9P	1-RA-07-000A-RD-9P0-.49	P	5/10/2007	803473	2369118	4A	77.1	<13	<0.013	
9P/Dup.	1-RA-07-000A-RD-9P0-.49-Dup	P/Dup.	5/10/2007	803473	2369118	4A	77.4	<13	<0.013	
10P	1-RA-07-000A-RD-10P0-.25	P	5/10/2007	802219	2368810	5A	80	370	0.37	
11P	1-RA-07-000A-RD-11P0-.5	P	5/24/2007	801994	2369063	6A	56.3	250	0.25	
12P	1-RA-07-000A-RD-12P0-.38	P	5/11/2007	801991	2369261	6A	66	300	0.3	
13P	1-RA-07-000A-RD-13P0-.64	P	5/11/2007	802020	2369445	6A	50.1	11000	11	
14P	1-RA-07-000A-RD-14P0-.5	P	5/11/2007	802143	2369138	7A	41.6	46	0.046	
15P	1-RA-07-000A-RD-15P0-.5	P	5/11/2007	802092	2369345	7A	61	370	0.37	
16P	1-RA-07-000A-RD-16P0-.74	P	5/11/2007	802249	2369123	8A	65.5	<13	<0.013	
17P	1-RA-07-000A-RD-17P0-.39	P	5/11/2007	802194	2369274	8A	66.2	1200	1.2	
18P	1-RA-07-000A-RD-18P0-.58	P	5/24/2007	802383	2369172	9A	30	3300	3.3	
19P	1-RA-07-000A-RD-19P0-.5	P	5/24/2007	802344	2369236	9A	54.1	320	0.32	
20P	1-RA-07-000A-RD-20P0-.64	P	5/24/2007	802293	2369453	9A	64.5	7900	7.9	
21P	1-RA-07-000A-RD-21P0-.47	P	5/24/2007	802590	2368955	10A	55.7	1100	1.1	
22P	1-RA-07-000A-RD-22P0-.67	P	5/25/2007	802695	2369388	10A	68.2	160	0.16	
Subarea A										
Composite Secondary Samples										
1ABCD	1-RA-07-000A-RD-1A0-.62,B0-.48,C0-.47,D0-.53	S	4/30/2007	802419	2368721	1A	64.7	390	0.39	
2ABCD	1-RA-07-000A-RD-2AB0-.45,C0-.48,D0-.46	S	4/30/2007	802422	2368852	1A	59.5	250	0.25	
3ABCD	1-RA-07-000A-RD-3AB0-.35,C0-.48,D0-.38	S	5/3/2007	802631	2368689	2A	63.9	370	0.37	
4ABCD	1-RA-07-000A-RD-4A0-.53,B0-.50,C0-.57,D0-.38	S	4/30/2007	802627	2368810	2A	53	230	0.23	
5ABCD	1-RA-07-000A-RD-5A0-.34,BCD0-.5	S	5/10/2007	802995	2368743	3A	47.9	890	0.89	
6ABCD	1-RA-07-000A-RD-6A0-.59,B0-.73,C0-.62,D0-.66	S	5/11/2007	802829	2368723	3A	52.1	810	0.81	
6ABCD/Dup.	1-RA-07-000A-RD-6A0-.59,B0-.73,C0-.62,D0-.66-Dup	S/Dup.	5/11/2007	802829	2368723	3A	54.9	900	0.9	
7ABC	1-RA-07-000A-RD-7A0-.5,B0-.56,C0-.63	S	5/11/2007	803138	2368843	4A	54.2	2100	2.1	
7ABC/Dup.	1-RA-07-000A-RD-7A0-.5,B0-.56,C0-.63-Dup	S/Dup.	5/11/2007	803138	2368843	4A	54.6	1900	1.9	
7A	1-RA-07-000A-RD-7A.5-1.1	S	5/10/2007	803138	2368843	4A	58	2600	2.6	
8ABC	1-RA-07-000A-RD-8AB0-.5,C0-.49	S	5/14/2007	803328	2369012	4A	56.1	130	0.13	
9ABCD	1-RA-07-000A-RD-9A0-.57,B0-.69,C0-.51,D0-.5	S	5/15/2007	803453	2369133	4A	55.4	380	0.38	
10ACD	1-RA-07-000A-RD-10A0-.41,CD0-.5	S	5/14/2007	802063	2368798	5A	54	750	0.75	
11ABCD	1-RA-07-000A-RD-11ABD0-.5,C0-.56	S	5/30/2007	801997	2369065	6A	49.3	4700	4.7	
11ABCD/Dup.	1-RA-07-000A-RD-11ABD0-.5,C0-.56-Dup	S/Dup.	5/30/2007	801997	2369065	6A	49.7	2800	2.8	
11ABD	1-RA-07-000A-RD-11AB.5-1,D.5-.94	S	6/7/2007	801997	2369065	6A	54.7	3500	3.5	
11AB	1-RA-07-000A-RD-11A1-1.5,B1-1.42	S	7/10/2007	801997	2369065	6A	66.8	100	0.1	
12ABC	1-RA-07-000A-RD-12AB0-.5,C0-.45	S	5/14/2007	802019	2369270	6A	62.1	570	0.57	
13ABC	1-RA-07-000A-RD-13A0-.71,B0-.52,C0-.38	S	5/14/2007	802033	2369503	6A	60.8	15000	15	
14ABCD	1-RA-07-000A-RD-14A-D0-.5	S	5/14/2007	802120	2369156	7A	57.4	9200	9.2	
14ABCD/Dup.	1-RA-07-000A-RD-14A-D0-.5-Dup	S/Dup.	5/14/2007	802120	2369156	7A	58.8	650	0.65	
14ABCD	1-RA-07-000A-RD-14A.5-.99,B.5-.9,C.5-1.22,D.5-1	S	5/23/2007	802120	2369156	7A	62.8	50	0.05	
15ABCD	1-RA-07-000A-RD-15AB0-.5,C0-.43,D0-.74	S	5/16/2007	802121	2369370	7A	67.2	110	0.11	
16ABCD	1-RA-07-000A-RD-16A0-.67,BD0-.5,C0-.54	S	5/16/2007	802250	2369122	8A	55.9	1700	1.7	
16BD	1-RA-07-000A-RD-16B.5-.87,D.5-1	S	5/23/2007	802250	2369122	8A	61.3	150	0.15	

ID	Sample ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	Total PCB (ppb)	Total PCB (ppm)	Comments
17ABCD	1-RA-07-000A-RD-17A-D0-.5	S	5/17/2007	802244	2369276	8A	49.5	7900	7.9	
17ABCD/Dup.	1-RA-07-000A-RD-17A-D0-.5-Dup	S/Dup.	5/17/2007	802244	2369276	8A	52.7	3600	3.6	
17ABCD	1-RA-07-000A-RD-17A.5-1.14,B.5-1.2,C.5-.75,D.5-1.02	S	5/29/2007	802244	2369276	8A	58	190	0.19	
18ABC	1-RA-07-000A-RD-18AC0-.5,B0-.7	S	5/30/2007	802388	2369148	9A	47.6	920	0.92	
19ABC	1-RA-07-000A-RD-19AC0-.5,B0-.6	S	5/30/2007	802387	2369297	9A	58.5	1800	1.8	
19AC	1-RA-07-000A-RD-19A.5-.97,C.5-.91	S	6/7/2007	802387	2369297	9A	65	230	0.23	
20ABC	1-RA-07-000A-RD-20A0-.7,B0-.37,C0-.6	S	5/30/2007	802287	2369492	9A	74.4	520	0.52	
21ABC	1-RA-07-000A-RD-21A0-.5,B0-.53,C0-.66	S	5/30/2007	802578	2368955	10A	46.2	2000	2	
21A	1-RA-07-000A-RD-21A.5-1.07	S	5/24/2007	802578	2368955	10A	62	<13	<0.013	
22ABC	1-RA-07-000A-RD-22AB0-.5,C0-.42	S	5/30/2007	802692	2369390	10A	71.4	600	0.6	
Subarea C										
Primary Samples										
1P	1-RA-07-000C-RD-1P0-.5	P	5/25/2007	805673	2368633	1C	56.5	30	0.03	
2P	1-RA-07-000C-RD-2P0-.5	P	5/30/2007	805642	2368977	2C	61.6	<13	<0.013	
3P	1-RA-07-000C-RD-3P0-.5	P	5/25/2007	806100	2368776	3C	37.6	260	0.26	
4P	1-RA-07-000C-RD-4P0-.5	P	5/25/2007	806178	2368747	3C	54.9	<13	<0.013	
5P	1-RA-07-000C-RD-5P0-.6	P	5/25/2007	806276	2368598	4C	62.9	<13	<0.013	
5P/Dup.	1-RA-07-000C-RD-5P0-.6-Dup	P/Dup.	5/25/2007	806276	2368598	4C	62.8	<13	<0.013	
6P	1-RA-07-000C-RD-6P0-.37	P	5/30/2007	806659	2368866	5C-A	78.4	110	0.11	
7P	1-RA-07-000C-RD-7P0-.66	P	5/30/2007	806612	2368931	5C-B	65.4	530	0.53	
8P	1-RA-07-000C-RD-8P0-.41	P	5/25/2007	806440	2368978	6C	70	250	0.25	
9P	1-RA-07-000C-RD-9P0-.5	P	5/30/2007	806575	2368978	6C	44.2	660	0.66	
Subarea C										
Composite Secondary Samples										
1ABCD	1-RA-07-000C-RD-1A0-.43,B0-.58,C0-.5,D0-.51	S	5/30/2007	805697	2368707	1C	58.3	230	0.23	
2ABCD	1-RA-07-000C-RD-2AC0-.5,B0-.72,D0-.27	S	5/31/2007	805729	2368899	2C	53	77	0.077	
2ABCD/Dup.	1-RA-07-000C-RD-2AC0-.5,B0-.72,D0-.27-Dup	S/Dup.	5/31/2007	805729	2368899	2C	53	59	0.059	
3ABCD	1-RA-07-000C-RD-3A0-.69,B0-.62,C0-.68,D0-.5	S	5/30/2007	806069	2368762	3C	42.4	100	0.1	
3ABCD/Dup.	1-RA-07-000C-RD-3A0-.69,B0-.62,C0-.68,D0-.5-Dup	S/Dup.	5/30/2007	806069	2368762	3C	42.9	87	0.087	
4ABCD	1-RA-07-000C-RD-4ABC0-.5,D0-.56	S	5/31/2007	806271	2368729	3C	37.5	980	0.98	
5AB	1-RA-07-000C-RD-5A0-.47,B0-.58	S	5/30/2007	806262	2368604	4C	59.6	220	0.22	
6B	1-RA-07-000C-RD-6B.5-.88	S	5/30/2007	806695	2368898	5C-A	53.4	50000	50	
6B	1-RA-07-000C-RD-6B0-.5	S	5/30/2007	806695	2368898	5C-A	38.4	59000	59	
6B SOC	1-RA-07-000C-RD-6B-SOC	S	6/20/2007	806664	2368845	5C-A	--	48100	48.1	Total PCB result based on core averaging. See App. B for calculations.
7AB	1-RA-07-000C-RD-7A0-.5,B0-.61	S	5/31/2007	806608	2368925	5C-B	37	1100	1.1	
7A	1-RA-07-000C-RD-7A.5-.78	S	5/30/2007	806608	2368925	5C-B	46.4	1300	1.3	
8ABC	1-RA-07-000C-RD-8A0-.5,B0-.55,C0-.46	S	5/31/2007	806432	2368997	6C	36.6	430	0.43	
9ABC	1-RA-07-000C-RD-9AB0-.5,C0-.36	S	5/31/2007	806506	2369069	6C	38.7	890	0.89	
Subarea D1										
Primary Samples										
1P	1-RA-07-00D1-PS-1P0-.39	P	6/27/2007	811694	2370929	21D1	64.3	84	0.084	
2P	1-RA-07-00D1-PS-2P0-.5	P	6/27/2007	811610	2371052	21D1	39.8	500	0.5	
3P	1-RA-07-00D1-PS-3P0-.34	P	6/27/2007	811529	2370883	21D1	59.5	450	0.45	
4P	1-RA-07-00D1-PS-4P0-.53	P	6/22/2007	811421	2370934	20D1	55.2	220	0.22	
5P	1-RA-07-00D1-PS-5P0-.63	P	6/27/2007	811544	2370951	21D1	61	62	0.062	
5P/Dup.	1-RA-07-00D1-PS-5P0-.63-Dup	P/Dup.	6/27/2007	811544	2370951	21D1	56	120	0.12	
6P	1-RA-07-00D1-PS-6P0-.42	P	6/22/2007	811262	2370842	19D1	35.1	22	0.022	
7P	1-RA-07-00D1-PS-7P0-.62	P	6/22/2007	811289	2370934	19D1	60.2	44	0.044	
8P	1-RA-07-00D1-PS-8P0-.5	P	6/22/2007	811270	2371060	19D1	43.6	160	0.16	
8P/Dup.	1-RA-07-00D1-PS-8P0-.5-Dup	P/Dup.	6/22/2007	811270	2371060	19D1	45	110	0.11	
9P	1-RA-07-00D1-PS-9P0-.48	P	6/27/2007	811108	2370834	18D1	30.5	1300	1.3	
10P	1-RA-07-00D1-PS-10P0-.58	P	9/4/2007	810793	2370432	14AD1	54	720	0.72	
11P	1-RA-07-00D1-PS-11P0-.51	P	8/23/2007	810820	2370596	14BD1	52.6	14	0.014	
12P	1-RA-07-00D1-PS-12P0-.45	P	8/23/2007	810892	2370702	16D1	51.2	74	0.074	
13P	1-RA-07-00D1-PS-13P0-.42	P	8/10/2007	810822	2370823	17D1	65.9	37	0.037	
14P	1-RA-07-00D1-PS-14P0-.5	P	8/8/2007	810883	2370892	17D1	--	16.8	0.0168	
15P	1-RA-07-00D1-PS-15P0-.73	P	8/22/2007	810622	2370482	13D1	52.7	59	0.059	
16P	1-RA-07-00D1-PS-16P0-.47	P	8/23/2007	810692	2370589	14BD1	61.3	270	0.27	

ID	Sample ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	Total PCB (ppb)	Total PCB (ppm)	Comments
17P	1-RA-07-00D1-PS-17P0-.5	P	8/23/2007	810613	2370707	15D1	57.5	39	0.039	
18P	1-RA-07-00D1-PS-18P0-.5	P	8/23/2007	810700	2370804	15D1	63.7	170	0.17	
19P	1-RA-07-00D1-PS-19P0-.5	P	8/10/2007	810501	2370488	12D1	56.4	<13	<0.013	
20P	1-RA-07-00D1-PS-20P0-.5	P	8/10/2007	810418	2370586	12D1	53.5	750	0.75	
21P	1-RA-07-00D1-PS-21P0-.5	P	8/22/2007	810503	2370718	13D1	61.8	94	0.094	
22P	1-RA-07-00D1-PS-22P0-.54	P	8/13/2007	810299	2370592	11D1	73.9	270	0.27	
23P	1-RA-07-00D1-PS-23P0-.38	P	8/13/2007	810243	2370677	11D1	71.8	64	0.064	
24P	1-RA-07-00D1-PS-24P0-.5	P	7/25/2007	810094	2370475	10D1	65	99	0.099	
25P	1-RA-07-00D1-PS-25P0-.25	P	7/27/2007	810027	2370591	10D1	39.2	480	0.48	
26P	1-RA-07-00D1-PS-26P0-.32	P	5/15/2007	809854	2370373	2D1	51.3	50	0.05	
27P	1-RA-07-00D1-PS-27P0-.5	P	7/25/2007	809826	2370464	10D1	65	<13	<0.013	
27P	1-RA-07-00D1-PS-27P.5-.93	P	7/25/2007	809826	2370464	10D1	31.8	1600	1.6	
28P	1-RA-07-00D1-PS-28P0-.25	P	7/26/2007	809918	2370547	10D1	25.9	1700	1.7	
28P	1-RA-07-00D1-PS-28P.5-1	P	7/26/2007	809918	2370547	10D1	58.8	<13	<0.013	
29P	1-RA-07-00D1-PS-29P0-.42	P	4/27/2007	809728	2370311	1D1	38.8	27000	27	
29P	1-RA-07-00D1-PSRD-29P0-.5	P	9/7/2007	809721	2370307	1D1	--	16.8	0.0168	Redredge result
30P	1-RA-07-00D1-PS-30P0-.5	P	5/15/2007	809629	2370358	2D1	43.2	170	0.17	
31P	1-RA-07-00D1-PS-31P0-.5	P	5/15/2007	809718	2370387	2D1	61.7	350	0.35	
32P	1-RA-07-00D1-PS-32P0-.4	P	5/16/2007	809550	2370204	6D1	40	79	0.079	
33P	1-RA-07-00D1-PS-33P0-.5	P	7/25/2007	809479	2370389	9D1	25.8	970	0.97	
34P	1-RA-07-00D1-PS-34P0-.5	P	5/17/2007	809321	2370057	6D1	--	16.8	0.0168	
35P	1-RA-07-00D1-PS-35P0-.5	P	7/11/2007	809229	2370130	7D1	37.2	2200	2.2	
35P	1-RA-07-00D1-PS-35P.5-.92	P	7/11/2007	809229	2370130	7D1	73.9	<13	<0.013	
36P	1-RA-07-00D1-PS-36P0-.26	P	7/11/2007	809272	2370259	7D1	51.9	520	0.52	
37P	1-RA-07-00D1-PS-37P0-.5	P	8/6/2007	809230	2370363	8D1	54.6	260	0.26	
38P	1-RA-07-00D1-PS-38P0-.67	P	7/11/2007	809125	2370143	7D1	58.4	18	0.018	
39P	1-RA-07-00D1-PS-39P0-.5	P	8/6/2007	809027	2370272	8D1	53.3	33	0.033	
40P	1-RA-07-00D1-PS-40P0-.5	P	5/16/2007	808898	2369842	3D1	18.8	79	0.079	
41P	1-RA-07-00D1-PS-41P0-.7	P	5/16/2007	808830	2369904	3D1	23.5	27	0.027	
42P	1-RA-07-00D1-PS-42P0-.5	P	7/10/2007	808892	2370005	5D1	23.4	6100	6.1	
42P	1-RA-07-00D1-PS-42P.5-1	P	7/10/2007	808892	2370005	5D1	47	770	0.77	
42P	1-RA-07-00D1-PSRD-42P0-.5	P	10/17/2007	808894	2370003	5D1	43.2	<64	<0.064	Redredge result
43P	1-RA-07-00D1-PS-43P0-.5	P	7/10/2007	808883	2370160	5D1	45.6	28	0.028	
44P	1-RA-07-00D1-PS-44P0-.5	P	7/10/2007	808880	2370215	5D1	52	22	0.022	
45P	1-RA-07-00D1-PS-45P0-.56	P	5/16/2007	808733	2369927	3D1	37	68	0.068	
46P	1-RA-07-00D1-PS-46P0-.63	P	7/9/2007	808724	2370144	4D1	38.8	120	0.12	
47P	1-RA-07-00D1-PS-47P0-.48	P	9/21/2007	811055	2370618	25D1	49.5	170	0.17	
48P	1-RA-07-00D1-PS-48P0-.49	P	9/21/2007	811014	2370706	25D1	37.7	560	0.56	
49P	1-RA-07-00D1-PS-49P0-.54	P	10/24/2007	810293	2370414	24D1	43.2	13	0.013	
50P	1-RA-07-00D1-PS-50P0-.6	P	8/13/2007	810228	2370472	24D1	63.5	60	0.06	
51P	1-RA-07-00D1-PS-51P0-.42	P	7/27/2007	810022	2370368	23D1	44.6	350	0.35	
52P	1-RA-07-00D1-PS-52P0-.5	P	9/24/2007	808867	2370313	26D1	38.4	430	0.43	
53P	1-RA-07-00D1-PS-53P0-.5	P	9/24/2007	809217	2370402	26D1	23.6	53	0.053	
54P	1-RA-07-00D1-PS-54P0-.5	P	9/21/2007	809693	2370561	27D1	22.2	880	0.88	
55P	1-RA-07-00D1-PS-55P0-.5	P	9/21/2007	810232	2370701	27D1	--	16.8	0.0168	
56P	1-RA-07-00D1-PS-56P0-.5	P	9/24/2007	808567	2370339	29D1	36	1600	1.6	
56P	1-RA-07-00D1-PS-56P.5-.87	P	9/24/2007	808567	2370339	29D1	37.4	42	0.042	
57P	1-RA-07-00D1-PS-57P0-.5	P	9/24/2007	808827	2370368	29D1	26.3	61	0.061	
58P	1-RA-07-00D1-PS-58P0-.5	P	10/24/2007	809111	2370436	30D1	24.1	530	0.53	
59P	1-RA-07-00D1-PS-59P0-.5	P	10/24/2007	809427	2370479	30D1	19.2	420	0.42	
60P	1-RA-07-00D1-PS-60P0-.5	P	9/25/2007	809541	2370555	31D1	30.1	270	0.27	
60P	1-RA-07-00D1-PS-60P.5-1	P	9/25/2007	809541	2370555	31D1	26.2	1600	1.6	
61P	1-RA-07-00D1-PS-61P0-.5	P	9/25/2007	809818	2370652	31D1	23.9	98	0.098	
61P	1-RA-07-00D1-PS-61P.5-1	P	9/25/2007	809818	2370652	31D1	23.1	1100	1.1	
62P	1-RA-07-00D1-PS-62P0-.5	P	9/26/2007	810021	2370703	32D1	26.6	790	0.79	
63P	1-RA-07-00D1-PS-63P0-.46	P	9/26/2007	810224	2370793	32D1	64.7	800	0.8	
64P	1-RA-07-00D1-PS-64P0-.5	P	9/26/2007	811414	2371165	28D1	41.4	170	0.17	
65P	1-RA-07-00D1-PS-65P0-.5	P	9/26/2007	811416	2371251	28D1	37.8	21	0.021	

ID	Sample ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	Total PCB (ppb)	Total PCB (ppm)	Comments
48ABCD/Dup.	1-RA-07-00D1-PS-48A0-.51,B0-.45,C0-.52,D0-.7-DUP	S/Dup.	9/26/2007	811031	2370710	25D1	39.2	420	0.42	
49A	1-RA-07-00D1-PS-49A0-.5	S	8/14/2007	810327	2370443	24D1	35.8	84	0.084	
50ABCD	1-RA-07-00D1-PS-50A0-.58,B0-.59,C0-.66,D0-.25	S	8/16/2007	810233	2370473	24D1	61.1	74	0.074	
50ABCD/Dup.	1-RA-07-00D1-PS-50A0-.58,B0-.59,C0-.66,D0-.25-DUP	S/Dup.	8/16/2007	810233	2370473	24D1	60.1	170	0.17	
51 BC	1-RA-07-00D1-PS-51B0-.41, C0-.64	S	7/30/2007	810004	2370394	23D1	52.2	390	0.39	
52ABC	1-RA-07-00D1-PS-52ABC0-.5	S	9/26/2007	808857	2370316	26D1	32.9	110	0.11	
53ABCD	1-RA-07-00D1-PS-53A-D0-.5	S	9/26/2007	809225	2370389	26D1	24.8	1000	1.0	
54ABC	1-RA-07-00D1-PS-54ABC0-.5	S	9/26/2007	809702	2370550	27D1	22.7	410	0.41	
55AB	1-RA-07-00D1-PS-55A0-.6,B0-.32	S	9/26/2007	810110	2370682	27D1	59.4	240	0.24	
56ABC	1-RA-07-00D1-PS-56ABC0-.5	S	10/3/2007	808568	2370332	29D1	26.7	300	0.3	
57ABCD	1-RA-07-00D1-PS-57A-D0-.5	S	10/3/2007	808837	2370384	29D1	24.7	670	0.67	
58ABCD	1-RA-07-00D1-PS-58ABC0-.5,D0-.66	S	10/25/2007	809110	2370435	30D1	23.3	550	0.55	
58ABCD/Dup.	1-RA-07-00D1-PS-58ABC0-.5,D0-.66-DUP	S/Dup.	10/25/2007	809110	2370435	30D1	23.5	540	0.54	
59ABC	1-RA-07-00D1-PS-59ABC0-.5	S	10/25/2007	809334	2370495	30D1	23.4	210	0.21	
60ABCD	1-RA-07-00D1-PS-60A-D0-.5	S	10/3/2007	809545	2370558	31D1	22.2	1200	1.2	
60ABCD/Dup.	1-RA-07-00D1-PS-60A-D0-.5-DUP	S/Dup.	10/3/2007	809545	2370558	31D1	22	1400	1.4	
60ABCD	1-RA-07-00D1-PS-60A.5-.95,B.5-.92,C.5-.83,D.5-1.02	S	10/18/2007	809545	2370558	31D1	29.9	31	0.031	
61ABC	1-RA-07-00D1-PS-61ABC0-.5	S	10/18/2007	809817	2370647	31D1	37.6	25	0.025	
61ABC	1-RA-07-00D1-PS-61A.5-.85,B.5-1.1,C.5-1.12	S	10/3/2007	809817	2370647	31D1	20.3	1700	1.7	
62ABCD	1-RA-07-00D1-PS-62ABC0-.5,D0-.29	S	10/8/2007	810022	2370707	32D1	25.7	870	0.87	
63ABD	1-RA-07-00D1-PS-63A0-.4,B0-.69,D0-.35	S	10/8/2007	810237	2370785	32D1	73.7	210	0.21	
63ABD/Dup.	1-RA-07-00D1-PS-63A0-.4,B0-.69,D0-.35-DUP	S/Dup.	10/8/2007	810237	2370785	32D1	74.5	240	0.24	
64ABC	1-RA-07-00D1-PS-64ABC0-.5	S	10/8/2007	811349	2371152	28D1	45.1	210	0.21	
65ABC	1-RA-07-00D1-PS-65ABC0-.5	S	10/8/2007	811428	2371240	28D1	42.4	250	0.25	
Subarea D2S										
Primary Samples										
1P	1-RA-07-0D2S-PSSC-1P0-.5	P	5/4/2007	805924	236180		19.6	1600	1.6	Proposed Sand Placement Area
1P	1-RA-07-0D2S-PSSC-1P.5-1	P	5/4/2007	805924	236180		27.1	63	0.063	Proposed Sand Placement Area
1P	1-RA-07-0D2S-PSSC-1P1-1.36	P	5/4/2007	805924	236180		29.2	16	0.016	Proposed Sand Placement Area
2P	1-RA-07-0D2S-PSSC-2P0-.5	P	5/4/2007	806057	2369306		17.0	1000	1.0	Proposed Sand Placement Area
2P	1-RA-07-0D2S-PSSC-2P.5-1.11	P	5/4/2007	806057	2369306		25.7	260	0.26	Proposed Sand Placement Area
Subarea D2S										
Secondary Samples										
1ABC	1-RA-07-0D2S-PSSC-ABC0-.5	S	5/7/2007	805926	2369195		21.5	1300	1.3	Proposed Sand Placement Area
1ABC	1-RA-07-0D2S-PSSC-1A.5-.97,B.5-1,C.5-.9	S	5/7/2007	805926	2369195		28.4	150	0.15	Proposed Sand Placement Area
1B	1-RA-07-0D2S-PSSC-1B1-1.5	S	5/4/2007	805920	2369197		29.5	<13	<0.013	Proposed Sand Placement Area
2ABCD	1-RA-07-0D2S-PSSC-2A-D0-.5	S	5/7/2007	806147	2369270		19.1	1800	1.8	Proposed Sand Placement Area
2ABCD	1-RA-07-0D2S-PSSC-2A.5-1.24,B.5-1.03,C.5-1.17,D.5-.81	S	5/7/2007	806147	2369270		29.3	200	0.20	Proposed Sand Placement Area
Subarea E1										
Primary Samples										
1P	1-RA-07-00E1-PS-1P0-.5	P	7/31/2007	812136	2371726	1E1	20	1100	1.1	
1P	1-RA-07-00E1-PS-1P.5-1.04	P	7/31/2007	812136	2371726	1E1	33.3	<13	<0.013	
2P	1-RA-07-00E1-PS-2P0-.5	P	7/31/2007	812176	2371789	1E1	21.2	62	0.062	
2P/Dup.	1-RA-07-00E1-PS-2P0-.5-Dup	P/Dup.	7/31/2007	812176	2371789	1E1	21.3	100	0.1	
3P	1-RA-07-00E1-PS-3P0-.6	P	9/10/2007	812187	2372102	2E1	38.4	64	0.064	
4P	1-RA-07-00E1-PS-4P0-.5	P	9/10/2007	812141	2372194	2E1	20.4	90	0.09	
5P	1-RA-07-00E1-PS-5P0-.5	P	8/10/2007	812214	2372310	3E1	21.7	650	0.65	
6P	1-RA-07-00E1-PS-6P0-.5	P	8/8/2007	812144	2372461	3E1	21.3	2600	2.6	
6P	1-RA-07-00E1-PS-6P.5-91	P	8/8/2007	812144	2372461	3E1	21.7	160	0.16	
Subarea E1										
Composite Secondary Samples										
1ABC	1-RA-07-00E1-PS-1ABC0-.5	S	8/1/2007	812130	2371712	1E1	20.7	290	0.29	
2ABCD	1-RA-07-00E1-PS-2A-D0-.5	S	8/1/2007	812131	2371830	1E1	19.2	500	0.5	
2ABCD/Dup.	1-RA-07-00E1-PS-2A-D0-.5-Dup	S/Dup.	8/1/2007	812131	2371830	1E1	19.2	440	0.44	
3ABCD	1-RA-07-00E1-PS-3A0-.6,B0-.66,C0-.5,D0-.65	S	9/11/2007	812126	2372074	2E1	28.4	140	0.14	
4ABC	1-RA-07-00E1-PS-4ABC0-.5	S	9/11/2007	812142	2372213	2E1	17.9	940	0.94	
5ABC	1-RA-07-00E1-PS-5ABC0-.5	S	8/13/2007	812141	2372313	3E1	18.8	1200	1.2	
5ABC	1-RA-07-00E1-PS-5AC.5-1,B.5-1.15	S	8/22/2007	812141	2372313	3E1	30.1	27	0.027	
6ABC	1-RA-07-00E1-PS-6ABC0-.5	S	8/13/2007	812141	2372472	3E1	20	810	0.81	

ID	Sample ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	Total PCB (ppb)	Total PCB (ppm)	Comments
Subarea E2										
Primary Samples										
1P	1-RA-07-00E2-PS-1P0-.32	P	8/14/2007	815638	2372592	1E2	69.6	39	0.039	
2P	1-RA-07-00E2-PS-2P0-.5	P	8/14/2007	815598	2372676	1E2	20.6	1100	1.2	
2P	1-RA-07-00E2-PS-2P.5-.99	P	8/14/2007	815598	2372676	1E2	66.1	24	0.024	
3P	1-RA-07-00E2-PS-3P0-.5	P	9/4/2007	815626	2372860	2E2	16.2	11000	11	
3P	1-RA-07-00E2-PSRD-3P0-.5	P	11/8/2007	815626	2372860	2E2	19.6	480	0.48	Redredge result
4P	1-RA-07-00E2-PS-4P0-.5	P	9/4/2007	815596	2372894	2E2	17.2	1800	1.8	
5P	1-RA-07-00E2-PS-5P0-.5	P	11/8/2007	814406	2372435	3E2	18.1	830	0.83	
Subarea E2										
Composite Secondary Samples										
1ACD	1-RA-07-00E2-PS-1A0-.29,C0-.3,D0-.5	S	8/16/2007	815547	2372617	1E2	40.8	370	0.37	
2ABCD	1-RA-07-00E2-PS-2A-D0-.5	S	8/16/2007	815549	2372699	1E2	34.9	1700	1.7	
2ABCD	1-RA-07-00E2-PS-2A.5-.89,BD.5-1,C.5-1.07	S	8/23/2007	815549	2372699	1E2	37.1	570	0.57	
2ABCD/Dup.	1-RA-07-00E2-PS-2A.5-.89,BD.5-1,C.5-1.07-Dup	S/Dup.	8/23/2007	815549	2372699	1E2	42	470	0.47	
3ABCD	1-RA-07-00E2-PS-3A-D0-.5	S	9/4/2007	815627	2372859	2E2	16.2	3800	3.8	
3ABCD	1-RA-07-00E2-PSRD-3A-D0-.5	S	11/9/2007	815627	2372859	2E2	17.7	1800	1.8	Redredge result
3ABCD	1-RA-07-00E2-PSRD-3A.5-1,B.5-1.13,C.5-1.1,D.5-1.03	S	11/19/2007	815627	2372859	2E2	24	170	0.17	Redredge result
4ABCD	1-RA-07-00E2-PS-4A-D0-.5	S	9/4/2007	815549	2372882	2E2	16.8	4800	4.8	
4ABCD/Dup.	1-RA-07-00E2-PS-4A-D0-.5-DUP	S/Dup.	9/4/2007	815549	2372882	2E2	16.7	3700	3.7	
5ABCD	1-RA-07-00E2-PS-5A-D0-.5	S	11/9/2007	814408	2372435	3E2	18.2	1300	1.3	
5ABCD	1-RA-07-00E2-PS-5A.5-1.14,B.5-.99,CD.5-1	S	11/19/2007	814408	2372435	3E2	23	67	0.067	
Subarea E3S										
Primary Samples										
1P	1-RA-07-0E3S-PS-1P0-.5	P	6/28/2007	811682	2371060	1E3S	34.3	880	0.88	
2P	1-RA-07-0E3S-PS-2P0-.5	P	6/28/2007	811808	2370938	1E3S	51.4	140	0.14	
3P	1-RA-07-0E3S-PS-3P0-.6	P	7/10/2007	812156	2370822	2E3S	60	22	0.022	
4P	1-RA-07-0E3S-PS-4P0-.5	P	7/10/2007	812074	2370865	2E3S	35.2	1100	1.1	
4P	1-RA-07-0E3S-PS-4P.5-1	P	7/10/2007	812074	2370865	2E3S	45.1	26	0.026	
5P	1-RA-07-0E3S-PS-5P0-.5	P	7/12/2007	812120	2370944	3E3S	28.2	9100	9.1	
5P	1-RA-07-0E3S-PS-5P.5-1	P	7/12/2007	812120	2370944	3E3S	38.6	110	0.11	
5P	1-RA-07-0E3S-PSRD-5P0-.66	P	10/17/2007	812119	2370944	3E3S	32.8	260	0.26	Redredge result
6P	1-RA-07-0E3S-PS-6P0-.5	P	7/12/2007	812137	2371175	3E3S	42.5	250	0.25	
7P	1-RA-07-0E3S-PS-7P0-.5	P	9/10/2007	812183	2371390	4E3S	36.2	110	0.11	
8P	1-RA-07-0E3S-PS-8P0-.5	P	9/10/2007	812130	2371626	4E3S	34.4	550	0.55	
9P	1-RA-07-0E3S-PS-9P0-.5	P	8/14/2007	813783	2370644	5E3S	65.7	56	0.056	
10P	1-RA-07-0E3S-PS-10P0-.5	P	10/2/2007	812019	2371056	6E3S	43.2	72	0.072	
11P	1-RA-07-0E3S-PS-11P0-.5	P	10/2/2007	812000	2371429	6E3S	35.9	1900	1.9	
11P	1-RA-07-0E3S-PS-11P.5-1	P	10/2/2007	812000	2371429	6E3S	43.6	34	0.034	
12P	1-RA-07-0E3S-PS-12P0-.5	P	10/12/2007	811818	2371164	7E3S	42.4	130	0.13	
13P	1-RA-07-0E3S-PS-13P0-.72	P	10/12/2007	811777	2371279	7E3S	47	360	0.36	
14P	1-RA-07-0E3S-PS-14P0-.5	P	10/12/2007	811808	2371398	7E3S	31.8	2600	2.6	
14P	1-RA-07-0E3S-PS-14P.5-.99	P	10/12/2007	811808	2371398	7E3S	42.3	250	0.25	
15P	1-RA-07-0E3S-PS-15P0-.5	P	9/25/2007	811499	2371220	8E3S	40.3	690	0.69	
16P	1-RA-07-0E3S-PS-16P0-.5	P	9/25/2007	811532	2371390	8E3S	18.5	98	0.098	
19P	1-RA-07-0E3S-PS-19P0-.5	P	10/25/2007	812347	2370986	10E3S	36.5	25	0.025	
20P	1-RA-07-0E3S-PS-20P0-.5	P	10/25/2007	812345	2371110	10E3S	39.8	74	0.074	
21P	1-RA-07-0E3S-PS-21P0-.5	P	10/25/2007	812343	2371433	11E3S	39.2	840	0.84	
22P	1-RA-07-0E3S-PS-22P0-.5	P	10/25/2007	812421	2371489	11E3S	25.8	190	0.19	
23P	1-RA-07-0E3S-PS-23P0-.5	P	10/29/2007	812418	2371053	12E3S	27.6	1700	1.7	
23P	1-RA-07-0E3S-PS-23P.5-.99	P	10/29/2007	812418	2371053	12E3S	39.1	31	0.031	
24P	1-RA-07-0E3S-PS-24P0-.5	P	10/29/2007	812466	2371136	12E3S	34.8	93	0.093	
25P	1-RA-07-0E3S-PS-25P0-.5	P	11/2/2007	812613	2370945	13E3S	26.1	3500	3.5	
25P	1-RA-07-0E3S-PS-25P.5-1.18	P	11/2/2007	812613	2370945	13E3S	33.5	45	0.045	
26P	1-RA-07-0E3S-PS-26P0-.5	P	11/5/2007	812693	2370867	13E3S	33.4	<13	<0.013	
27P	1-RA-07-0E3S-PS-27P0-.5	P	11/2/2007	812614	2371159	14E3S	27.4	2100	2.1	
27P	1-RA-07-0E3S-PS-27P.5-1	P	11/2/2007	812614	2371159	14E3S	39.5	390	0.39	
28P	1-RA-07-0E3S-PS-28P0-.5	P	11/1/2007	812693	2371068	14E3S	30.9	33	0.033	
29P	1-RA-07-0E3S-PS-29P0-.74	P	11/1/2007	812625	2371219	15E3S	44	65	0.065	
30P	1-RA-07-0E3S-PS-30P0-.5	P	11/1/2007	812624	2371322	15E3S	73.7	<13	<0.013	

ID	Sample ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	Total PCB (ppb)	Total PCB (ppm)	Comments
31P	1-RA-07-0E3S-PS-31P0-.5	P	10/29/2007	812616	2371395	16E3S	35.8	540	0.54	
32P	1-RA-07-0E3S-PS-32P0-.5	P	10/29/2007	812798	2371439	16E3S	34	360	0.36	
35P	1-RA-07-0E3S-PS-35P0-.5	P	11/5/2007	812812	2371053	18E3S	31.9	520	0.52	
36P	1-RA-07-0E3S-PS-36P0-.5	P	11/5/2007	812899	2371096	18E3S	34.7	160	0.16	
53P	1-RA-07-0E3S-PS-53P0-.5	P	11/9/2007	813691	2370893	27E3S	34.9	790	0.79	
54P	1-RA-07-0E3S-PS-54P0-.5	P	11/9/2007	813691	2371048	27E3S	38.4	<13	<0.013	
55P	1-RA-07-0E3S-PS-55P0-.5	P	11/12/2007	813692	2371203	28E3S	41.5	24	0.024	
56P	1-RA-07-0E3S-PS-56P0-.5	P	11/12/2007	813692	2371360	28E3S	36.3	62	0.062	
57P	1-RA-07-0E3S-PS-57P0-.5	P	11/7/2007	813805	2370936	29E3S	31.4	130	0.13	
58P	1-RA-07-0E3S-PS-58P0-.5	P	11/7/2007	813839	2371046	29E3S	34	49	0.049	
59P	1-RA-07-0E3S-PS-59P0-.5	P	11/7/2007	813819	2371165	30E3S	40.5	37	0.037	
60P	1-RA-07-0E3S-PS-60P0-.5	P	11/7/2007	813815	2371400	30E3S	30.9	300	0.3	
61P	1-RA-07-0E3S-PS-61P0-.5	P	11/1/2007	814010	2370829	31E3S	38.3	410	0.41	
62P	1-RA-07-0E3S-PS-62P0-.5	P	11/1/2007	814007	2371050	31E3S	35.6	180	0.18	
63P	1-RA-07-0E3S-PS-63P0-.5	P	11/9/2007	814005	2371286	32E3S	31.6	51	0.051	
64P	1-RA-07-0E3S-PS-64P0-.5	P	11/9/2007	813975	2371379	32E3S	34.4	120	0.12	
65P	1-RA-07-0E3S-PS-65P0-.5	P	11/7/2007	814110	2370872	33E3S	30.6	190	0.19	
66P	1-RA-07-0E3S-PS-66P0-.5	P	11/8/2007	814110	2371061	33E3S	35.3	260	0.26	
67P	1-RA-07-0E3S-PS-67P0-.56	P	10/12/2007	814108	2371241	34E3S	30.1	260	0.26	
68P	1-RA-07-0E3S-PS-68P0-.5	P	10/12/2007	814110	2371415	34E3S	30	480	0.48	
69P	1-RA-07-0E3S-PS-69P0-.5	P	10/25/2007	814202	2370943	35E3S	32.6	530	0.53	
70P	1-RA-07-0E3S-PS-70P0-.5	P	10/25/2007	814239	2371068	35E3S	32	160	0.16	
71P	1-RA-07-0E3S-PS-71P0-.5	P	10/17/2007	814213	2371170	36E3S	26.4	250	0.25	
72P	1-RA-07-0E3S-PS-72P0-.57	P	10/17/2007	814210	2371397	36E3S	30.7	260	0.26	
73P	1-RA-07-0E3S-PS-73P0-.5	P	11/9/2007	814612	2371626	37E3S	22.7	100	0.1	
74P	1-RA-07-0E3S-PS-74P0-.5	P	11/9/2007	814699	2371611	37E3S	22.1	150	0.15	
75P	1-RA-07-0E3S-PS-75P0-.5	P	11/9/2007	814887	2371689	37E3S	22.1	200	0.2	
Subarea E3S										
Composite Secondary Samples										
1ABC	1-RA-07-0E3S-PS-1ABC0-.5	S	6/29/2007	811731	2371039	1E3S	40.5	1500	1.5	
1ABC	1-RA-07-0E3S-PS-1ABC.5-1	S	7/10/2007	811731	2371039	1E3S	47.7	62	0.062	
1ABC/Dup.	1-RA-07-0E3S-PS-1ABC.5-1-Dup	S/Dup.	7/10/2007	811731	2371039	1E3S	48.1	47	0.047	
2ABC	1-RA-07-0E3S-PS-2A0-.5,BC0-.5	S	7/4/2007	811803	2370935	1E3S	51.4	350	0.35	
3ABC	1-RA-07-0E3S-PS-3AC0-.5,B0-.43	S	7/16/2007	812274	2370812	3E3S	52.1	250	0.25	
4AB	1-RA-07-0E3S-PS-4A0-.41,B0-.5	S	7/17/2007	812074	2370864	2E3S	52.4	310	0.31	
5ABCD	1-RA-07-0E3S-PS-5A-D0-.5	S	7/17/2007	812133	2370999	3E3S	38.8	590	0.59	
6ABCD	1-RA-07-0E3S-PS-6A-D0-.5	S	7/17/2007	812128	2371189	3E3S	42.2	1000	1	
6ABCD/Dup.	1-RA-07-0E3S-PS-6A-D0-.5-Dup	S/Dup.	7/17/2007	812128	2371189	3E3S	39.4	1000	1	
7ABCD	1-RA-07-0E3S-PS-7A0-.64,BD0-.5	S	9/11/2007	812129	2371384	4E3S	47.2	310	0.31	
8ABCD	1-RA-07-0E3S-PS-8A-D0-.5	S	9/11/2007	812129	2371573	4E3S	37.9	330	0.33	
8ABCD/Dup.	1-RA-07-0E3S-PS-8A-D0-.5-DUP	S/Dup.	9/11/2007	812129	2371573	4E3S	38.4	290	0.29	
9ABC	1-RA-07-0E3S-PS-9A0-.58,B0-.51,C0-.32	S	8/16/2007	813809	2370651	5E3S	63.5	40	0.04	
9ABC/Dup.	1-RA-07-0E3S-PS-9A0-.58,B0-.51,C0-.32-DUP	S/Dup.	8/16/2007	813809	2370651	5E3S	62.1	72	0.072	
10ABCD	1-RA-07-0E3S-PS-10ABC0-.5,D0-.71	S	10/9/2007	811997	2371073	6E3S	42.5	72	0.072	
11AB	1-RA-07-0E3S-PS-11AB0-.5	S	10/9/2007	812003	2371430	6E3S	38.8	340	0.34	
12ABCD	1-RA-07-0E3S-PS-12A-D0-.5	S	10/19/2007	811767	2371158	7E3S	44.5	180	0.18	
13ABC	1-RA-07-0E3S-PS-13ABC0-.5	S	10/19/2007	811778	2371303	7E3S	43	98	0.098	
13ABC/Dup.	1-RA-07-0E3S-PS-13ABC0-.5-Dup	S/Dup.	10/19/2007	811778	2371303	7E3S	45	54	0.054	
14ABC	1-RA-07-0E3S-PS-14ABC0-.5	S	10/19/2007	811767	2371411	7E3S	36.7	1600	1.6	
14ABC/Dup.	1-RA-07-0E3S-PS-14ABC0-.5-Dup	S/Dup.	10/19/2007	811767	2371411	7E3S	37.2	1400	1.4	
14ABC	1-RA-07-0E3S-PS-14ABC.5-1	S	10/30/2007	811767	2371411	7E3S	45.5	17	0.017	
15ABC	1-RA-07-0E3S-PS-15ABC0-.5	S	10/8/2007	811521	2371235	8E3S	40.8	300	0.3	
16ABCD	1-RA-07-0E3S-PS-16A-D0-.5	S	10/8/2007	811534	2371398	8E3S	30.1	110	0.11	
19ABCD	1-RA-07-0E3S-PS-19A-D0-.5	S	10/26/2007	812346	2370989	10E3S	33.8	360	0.36	
19ABCD/Dup.	1-RA-07-0E3S-PS-19A-D0-.5-DUP	S/Dup.	10/26/2007	812346	2370989	10E3S	34.4	350	0.35	
20ABC	1-RA-07-0E3S-PS-20ABC0-.5	S	10/26/2007	812346	2371134	10E3S	43.9	320	0.32	
21ABC	1-RA-07-0E3S-PS-21ABC0-.5	S	10/29/2007	812345	2371406	11E3S	48.2	240	0.24	
22ABC	1-RA-07-0E3S-PS-22ABC0-.5	S	10/29/2007	812468	2371430	11E3S	49.7	310	0.31	
23ABCD	1-RA-07-0E3S-PS-23A-D0-.5	S	10/29/2007	812456	2370980	12E3S	29.3	480	0.48	
24ABCD	1-RA-07-0E3S-PS-24ABC0-.5,D0-.74	S	10/29/2007	812465	2371121	12E3S	40	46	0.046	

ID	Sample ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	Total PCB (ppb)	Total PCB (ppm)	Comments
25ABCD	1-RA-07-0E3S-PS-25A-D0-.5	S	11/5/2007	812577	2370891	13E3S	28.9	240	0.24	
26ABCD	1-RA-07-0E3S-PS-26A-D0-.5	S	11/6/2007	812702	2370871	13E3S	29.2	180	0.18	
26ABCD/Dup.	1-RA-07-0E3S-PS-26A-D0-.5-Dup	S/Dup.	11/6/2007	812702	2370871	13E3S	29	160	0.16	
27ABCD	1-RA-07-0E3S-PS-27A-D0-.5	S	11/2/2007	812588	2371078	14E3S	30.8	510	0.51	
28ABCD	1-RA-07-0E3S-PS-28ABC0-.5,D0-.71	S	11/2/2007	812700	2371062	14E3S	31.2	310	0.31	
28ABCD/Dup.	1-RA-07-0E3S-PS-28ABC0-.5,D0-.71-Dup	S/Dup.	11/2/2007	812700	2371062	14E3S	31.2	410	0.41	
29ABCD	1-RA-07-0E3S-PS-29A-D0-.5	S	11/2/2007	812626	2371233	15E3S	40.9	140	0.14	
30ABCD	1-RA-07-0E3S-PS-30A-D0-.5	S	11/5/2007	812623	2371334	15E3S	61.3	58	0.058	
30ABCD/Dup.	1-RA-07-0E3S-PS-30A-D0-.5-Dup	S/Dup.	11/5/2007	812623	2371334	15E3S	57	62	0.062	
31ABCD	1-RA-07-0E3S-PS-31A0-.55,BCD0-.5	S	10/30/2007	812607	2371445	16E3S	40.4	330	0.33	
32ABCD	1-RA-07-0E3S-PS-32A-D0-.5	S	10/30/2007	812804	2371438	16E3S	38.8	410	0.41	
35ABCD	1-RA-07-0E3S-PS-35A-D0-.5	S	11/6/2007	812810	2371089	18E3S	33.2	270	0.27	
36ABCD	1-RA-07-0E3S-PS-36A-D0-.5	S	11/6/2007	812899	2371096	18E3S	34.5	42	0.042	
53ABCD	1-RA-07-0E3S-PS-53A-D0-.5	S	11/12/2007	813683	2370882	27E3S	34.2	130	0.13	
54ABCD	1-RA-07-0E3S-PS-54A-D0-.5	S	11/12/2007	813683	2371051	27E3S	36.5	47	0.047	
55ABCD	1-RA-07-0E3S-PS-55A-D0-.5	S	11/15/2007	813694	2371211	28E3S	38.2	150	0.15	
56ABCD	1-RA-07-0E3S-PS-56A-D0-.5	S	11/15/2007	813669	2371365	28E3S	31.2	380	0.38	
57ABCD	1-RA-07-0E3S-PS-57A-D0-.5	S	11/8/2007	813840	2370877	29E3S	35.4	130	0.13	
58ABCD	1-RA-07-0E3S-PS-58A-D0-.5	S	11/8/2007	813836	2371030	29E3S	34.1	270	0.27	
59ABCD	1-RA-07-0E3S-PS-59A-D0-.5	S	11/8/2007	813843	2371193	30E3S	31	240	0.24	
60ABCD	1-RA-07-0E3S-PS-60A-D0-.5	S	11/9/2007	813844	2371364	30E3S	32.7	38	0.038	
60ABCD/Dup.	1-RA-07-0E3S-PS-60A-D0-.5-Dup	S/Dup.	11/9/2007	813844	2371364	30E3S	31.6	300	0.3	
61ABCD	1-RA-07-0E3S-PS-61ABD0-.5,C0-.73	S	11/5/2007	813972	2370825	31E3S	33	330	0.33	
61ABCD/Dup.	1-RA-07-0E3S-PS-61ABD0-.5,C0-.73-Dup	S/Dup.	11/5/2007	813972	2370825	31E3S	32.8	340	0.34	
62ABCD	1-RA-07-0E3S-PS-62A-D0-.5	S	11/5/2007	813970	2371028	31E3S	32.9	340	0.34	
63ABCD	1-RA-07-0E3S-PS-63A-D0-.5	S	11/13/2007	813975	2371191	32E3S	28.3	730	0.73	
63ABCD/Dup.	1-RA-07-0E3S-PS-63A-D0-.5-Dup	S/Dup.	11/13/2007	813975	2371191	32E3S	28.3	540	0.54	
64ABCD	1-RA-07-0E3S-PS-64A-D0-.5	S	11/13/2007	813963	2371384	32E3S	30.4	310	0.31	
65ABCD	1-RA-07-0E3S-PS-65A-D0-.5	S	11/12/2007	814099	2370888	33E3S	34.2	290	0.29	
65ABCD/Dup.	1-RA-07-0E3S-PS-65A-D0-.5-Dup	S/Dup.	11/12/2007	814099	2370888	33E3S	34.2	300	0.3	
66ABCD	1-RA-07-0E3S-PS-66ABC0-.5,D0-.64	S	11/12/2007	814118	2371061	33E3S	32.8	400	0.4	
67ABCD	1-RA-07-0E3S-PS-67A-D0-.5	S	10/19/2007	814110	2371239	34E3S	30.2	400	0.4	
68ABCD	1-RA-07-0E3S-PS-68A-D0-.5	S	10/23/2007	814104	2371414	34E3S	32.8	380	0.38	
69ABCD	1-RA-07-0E3S-PS-69A-D0-.5	S	10/29/2007	814254	2370914	35E3S	36.4	130	0.13	
69ABCD/Dup.	1-RA-07-0E3S-PS-69A-D0-.5-DUP	S/Dup.	10/29/2007	814254	2370914	35E3S	35.2	92	0.092	
70ABCD	1-RA-07-0E3S-PS-70A-D0-.5	S	10/29/2007	814240	2371069	35E3S	35.8	71	0.071	
71ABCD	1-RA-07-0E3S-PS-71A-D0-.5	S	10/23/2007	814237	2371244	36E3S	32.1	180	0.18	
72ABCD	1-RA-07-0E3S-PS-72A-D0-.5	S	10/23/2007	814238	2371425	36E3S	32.3	270	0.27	
73ABC	1-RA-07-0E3S-PS-73ABC0-.5	S	11/14/2007	814582	2371557	37E3S	23.1	140	0.14	
74ABC	1-RA-07-0E3S-PS-74ABC0-.5	S	11/14/2007	814687	2371609	37E3S	21.9	450	0.45	
75ABCD	1-RA-07-0E3S-PS-75A-D0-.5	S	11/15/2007	814876	2371686	37E3S	25.1	700	0.7	
75ABCD/Dup.	1-RA-07-0E3S-PS-75A-D0-.5-Dup	S/Dup.	11/15/2007	814876	2371686	37E3S	22	620	0.62	
Subarea E5										
Primary Samples										
1P	1-RA-07-00E5-PS-1P0-.5	P	9/20/2007	820347	2376024	1E5	27.5	490	0.49	
2P	1-RA-07-00E5-PS-2P0-.5	P	9/20/2007	820265	2376093	1E5	37.4	400	0.4	
Subarea E5										
Composite Secondary Samples										
1ABC	1-RA-07-00E5-PS-1A0-.71,BC0-.5	S	9/21/2007	820344	2376040	1E5	26.7	100	0.1	
1ABC/Dup.	1-RA-07-00E5-PS-1A0-.71,BC0-.5-Dup	S/Dup.	9/21/2007	820344	2376040	1E5	26.7	140	0.14	
2ABC	1-RA-07-00E5-PS-2ABC0-.5	S	9/21/2007	820346	2376111	1E5	36.6	350	0.35	
Subarea E6										
Primary Samples										
1P	1-RA-07-00E6-PS-1P0-.41	P	9/6/2007	820312	2375188	1E6	66.3	46	0.046	
2P	1-RA-07-00E6-PS-2P0-.53	P	9/6/2007	820233	2375039	2E6	63.3	43	0.043	
3P	1-RA-07-00E6-PS-3P0-.3	P	9/6/2007	820324	2374897	3E6	78.3	69	0.069	
4P	1-RA-07-00E6-PS-4P0-.5	P	9/12/2007	820569	2374538	4E6	32.7	390	0.39	
5P	1-RA-07-00E6-PS-5P0-.5	P	9/17/2007	821154	2375925	5E6	41.5	300	0.3	

ID	Sample ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	Total PCB (ppb)	Total PCB (ppm)	Comments
Subarea E6										
Composite Secondary Samples										
1ABCD	1-RA-07-00E6-PS-1A0-.58,B0-.33,C0-.53,D0-.6	S	9/7/2007	820231	2375174	1E6	67.5	13	0.013	
2ABCD	1-RA-07-00E6-PS-2A0-.55,B0-.67,C0-.5,D0-.44	S	9/7/2007	820324	2375051	2E6	57	540	0.54	
3ABC	1-RA-07-00E6-PS-3ABC0-.5	S	9/7/2007	820414	2374894	3E6	31.7	400	0.4	
4ABCD	1-RA-07-00E6-PS-4A-D0-.5	S	9/13/2007	820587	2374537	4E6	34.6	350	0.35	
5ABCD	1-RA-07-00E6-PS-5AC0-.5,B0-.6,D0-.7	S	9/18/2007	821098	2375935	5E6	44.5	110	0.11	
Subarea F										
Primary Samples										
1P	1-RA-07-000F-PS-1P0-.5	P	11/2/2007	815508	2371658	1F1	21.8	110	0.11	
Subarea F										
Composite Secondary Samples										
1A	1-RA-07-000F-PS-1A0-.69	S	11/2/2007	815485	2371651	1F1	24	41	0.041	
Subarea POG1										
Primary Samples										
1P	1-RA-07-POG1-RD-1P0-.36	P	5/31/2007	806156	2371661	1POG1	34.3	140	0.14	
2P	1-RA-07-POG1-RD-2P0-.27	P	5/31/2007	806218	2371592	1POG1	32.9	320	0.32	
3P	1-RA-07-POG1-RD-3P0-.58	P	5/31/2007	806285	2371441	2POG1	52	8300	8.3	
4P	1-RA-07-POG1-RD-4P0-.5	P	6/4/2007	806442	2371274	2POG1	--	16.8	0.0168	
5P	1-RA-07-POG1-RD-5P0-.32	P	6/5/2007	806294	2371645	3POG1	38	610	0.61	
6P	1-RA-07-POG1-RD-6P0-.25	P	6/5/2007	806441	2371508	3POG1	29.3	5500	5.5	
7P	1-RA-07-POG1-RD-7P0-.25	P	6/5/2007	806447	2371928	4POG1	58	140	0.14	
8P	1-RA-07-POG1-RD-8P0-.55	P	6/5/2007	806527	2371867	4POG1	31.8	300	0.3	
Subarea POG1										
Composite Secondary Samples										
1BC	1-RA-07-POG1-RD-1B0-.35,C0-.33	S	6/4/2007	806155	2371697	1POG1	26.3	130	0.13	
2ABC	1-RA-07-POG1-RD-2A0-.67,B0-.3,C0-.28	S	6/4/2007	806219	2371602	1POG1	46.6	520	0.52	
3ABC	1-RA-07-POG1-RD-3A0-.4,B0-.28,C0-.43	S	6/4/2007	806304	2371442	2POG1	68.6	610	0.61	
4ABC	1-RA-07-POG1-RD-4ABC0-.5	S	6/4/2007	806410	2371302	2POG1	--	16.8	0.0168	
5AB	1-RA-07-POG1-RD-5A0-.36,B0-.27	S	6/6/2007	806308	2371648	3POG1	36.4	1300	1.3	
6ABD	1-RA-07-POG1-RD-6A0-.55,B0-.33,D0-.26	S	6/6/2007	806425	2371487	3POG1	23.9	700	0.7	
7BCD	1-RA-07-POG1-RD-7B0-.37,C0-.45,D0-.5	S	6/6/2007	806443	2371965	4POG1	39.9	900	0.9	
8ABC	1-RA-07-POG1-RD-8A0-.27,B0-.47,C0-.3	S	6/6/2007	806563	2371941	4POG1	33.7	600	0.6	
Subarea POG3										
Primary Samples										
1P	1-RA-07-POG3-RD-1P0-.33	P	6/5/2007	806889	2371318	1POG3S	72.6	160	0.16	
2P	1-RA-07-POG3-RD-2P0-.5	P	7/12/2007	808230	2371625	2POG3S	66.7	29	0.029	
3P	1-RA-07-POG3-RD-3P0-.5	P	6/21/2007	809340	2371782	2POG3N	28.2	1300	1.3	
3P	1-RA-07-POG3-RD-3P.5-1.16	P	6/21/2007	809340	2371782	2POG3N	39	62	0.062	
4P	1-RA-07-POG3-RD-4P0-.67	P	6/21/2007	809672	2371660	2POG3N	46.9	<13	<0.013	
5P	1-RA-07-POG3-RD-5P0-.7	P	7/16/2007	808540	2371567	1POG3N	33.5	61	0.061	
6P	1-RA-07-POG3-RD-6P0-.5	P	7/16/2007	808631	2371625	1POG3N	23	130	0.13	
98P	1-RA-07-POG3-PS-98P0-.5	P	6/26/2007	809719	2371601	37POG3N	19.4	270	0.27	
115P	1-RA-07-POG3-PS-115P0-.5	P	6/21/2007	809309	2371455	35POG3N	24.5	900	0.9	
116P	1-RA-07-POG3-PS-116P0-.5	P	6/21/2007	809228	2371498	35POG3N	30.6	64	0.064	
117P	1-RA-07-POG3-PS-117P0-.5	P	6/25/2007	809500	2371529	36POG3N	22.9	1200	1.2	
117P	1-RA-07-POG3-PS-117P.5-1.15	P	6/25/2007	809500	2371529	36POG3N	31.4	73	0.073	
118P	1-RA-07-POG3-PS-118P0-.4	P	6/26/2007	809702	2371405	37POG3N	43.3	46	0.046	
119P	1-RA-07-POG3-PS-119P0-.63	P	6/26/2007	809630	2371512	37POG3N	37.3	44	0.044	
120P	1-RA-07-POG3-PS-120P0-.5	P	7/5/2007	809961	2371364	39POG3N	35.4	290	0.29	
121P	1-RA-07-POG3-PS-121P0-.5	P	6/28/2007	809824	2371397	38POG3N	51.6	460	0.46	
122P	1-RA-07-POG3-PS-122P0-.5	P	7/5/2007	809897	2371513	39POG3N	19	64	0.064	
123P	1-RA-07-POG3-PS-123P0-.5	P	6/28/2007	809824	2371630	38POG3N	20.4	600	0.6	
124P	1-RA-07-POG3-PS-124P0-.5	P	7/9/2007	810099	2371424	41POG3N	47.2	43	0.043	
125P	1-RA-07-POG3-PS-125P0-.5	P	7/5/2007	810025	2371507	40POG3N	30.2	1700	1.7	
125P	1-RA-07-POG3-PS-125P.5-.87	P	7/5/2007	810025	2371507	40POG3N	23.5	84	0.084	
126P	1-RA-07-POG3-PS-126P0-.57	P	7/9/2007	810221	2371510	41POG3N	48	170	0.17	
1P	1-RA-07-POG3-PSSC-1P0-.5	P	5/14/2007	807076	2370972		55.2	64	0.064	Proposed Sand Placement Area
2P	1-RA-07-POG3-PSSC-2P0-.5	P	5/14/2007	807078	2371093		47.4	260	0.26	Proposed Sand Placement Area
3P	1-RA-07-POG3-PSSC-3P0-.5	P	5/14/2007	808230	2371622		62.1	7400	7.4	Proposed Sand Placement Area

ID	Sample ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids	Total PCB (ppb)	Total PCB (ppm)	Comments
Subarea POG3										
Composite Secondary Samples										
1AB	1-RA-07-POG3-RD-1A0-.65,B0-.33	S	6/6/2007	806931	2371319	1POG3S	79.6	<13	<0.013	
2AB	1-RA-07-POG3-RD-2A0-.38,B0-.4	S	7/16/2007	808227	2371605	2POG3S	66.3	220	0.22	
3ABCD	1-RA-07-POG3-RD-3A0-.31,B0-.56,CD0-.5	S	6/22/2007	809294	2371761	2POG3N	61	30	0.03	
4ABCD	1-RA-07-POG3-RD-4AB0-.5,C0-.65,D0-.72	S	6/22/2007	809662	2371689	2POG3N	51.2	21	0.021	
4ABCD/Dup.	1-RA-07-POG3-RD-4AB0-.5,C0-.65,D0-.72-Dup	S/Dup.	6/22/2007	809662	2371689	2POG3N	50.4	25	0.025	
5A	1-RA-07-POG3-RD-5A0-.5	S	7/16/2007	808569	2371595	1POG3N	47.1	180	0.18	
6ABC	1-RA-07-POG3-RD-6AC0-.5,B0-.67	S	7/17/2007	808658	2371606	1POG3N	61	<13	<0.013	
92AB	1-RA-07-POG3-PS-92AB(0-4)	S	7/18/2006	809302	2371658	28POG3	43.3	270	0.27	
92CD	1-RA-07-POG3-PS-92CD0-.5	S	6/22/2007	809278	2371615	35POG3N	21.5	11000	11	See result for 92ABCD
92CD	1-RA-07-POG3-PS-92C.5-1.1,D.5-1.2	S	7/10/2007	809278	2371615	35POG3N	51.9	120	0.12	See result for 92ABCD
92ABCD		S				28POG3, 35POG3N	--	6710	6.71	PCB result is the length-weighted average of 92AB and 92CD.
95ABCD	1-RA-07-POG3-PS-95AD0-.5,B0-.33,C0-.3	S	6/26/2007	809467	2371601	36POG3N	32.4	210	0.21	
98ABCD	1-RA-07-POG3-PS-98ABD0-.5,C0-.73	S	6/27/2007	809702	2371610	37POG3N	24.8	3800	3.8	
98ABD	1-RA-07-POG3-PS-98A.5-.86,B.5-1.08,D.5-.85	S	7/10/2007	809702	2371610	29POG3N, 37POG3N	27.5	200	0.2	
100AB	1-RA-07-POG3-PS-100A0-.5,B0-.67	S	7/10/2007	809940	2371665	29POG3N, 39POG3N	23.1	270	0.27	
101ABCD	1-RA-07-POG3-PS-101ACD0-.5,B0-.67	S	7/10/2007	810086	2371599	29POG3N, 40POG3N, 41POG3N	22.9	3500	3.5	
101ACD	1-RA-07-POG3-PS-101A.5-1,C.5-1.12,D.5-.85	S	7/18/2007	810086	2371599	29POG3N, 40POG3N, 41POG3N	31.8	200	0.2	
102AB	1-RA-07-POG3-PS-102A0-.67,B0-.5	S	7/10/2007	809978	2371702	29POG3N, 40POG3N	19.9	350	0.35	
103AB	1-RA-07-POG3-PS-103A0-.33,B0-.5	S	7/11/2007	810219	2371571	29POG3N, 41POG3N	21.2	390	0.39	
115AB	1-RA-07-POG3-PS-115AB0-.5	S	6/22/2007	809291	2371449	35POG3N	28.2	830	0.83	
116ABCD	1-RA-07-POG3-PS-116AD0-.5,B0-.63,C0-.69	S	6/22/2007	809226	2371525	35POG3N	34.9	660	0.66	
117ABCD	1-RA-07-POG3-PS-117A-D0-.5	S	6/26/2007	809500	2371501	36POG3N	25.8	18000	18	
117ABCD	1-RA-07-POG3-PS-117A.5-.9,B.5-1.11,C.5-1.08,D.5-.96	S	7/10/2007	809500	2371501	36POG3N	32.1	29	0.029	
118ABD	1-RA-07-POG3-PS-118ABD0-.5	S	6/29/2007	809733	2371400	38POG3N, 39POG3N	42.6	710	0.71	
118ABD/Dup.	1-RA-07-POG3-PS-118ABD0-.5-Dup	S/Dup.	6/29/2007	809733	2371400	38POG3N, 39POG3N	42.2	310	0.31	
119ABCD	1-RA-07-POG3-PS-119A-D0-.5	S	6/27/2007	809650	2371514	37POG3N	22.2	220	0.22	
120ABC	1-RA-07-POG3-PS-120ABC0-.5	S	7/10/2007	809927	2371352	39, 40POG3N	54	25	0.025	
121ABCD	1-RA-07-POG3-PS-121AB0-.5,C0-.66,D0-.67	S	7/9/2007	809841	2371399	38, 39POG3N	44.6	130	0.13	
122ABCD	1-RA-07-POG3-PS-122ABC0-.5,D0-.69	S	7/11/2007	809899	2371508	38, 39POG3N	25.8	1900	1.9	
122ABC	1-RA-07-POG3-PS-122ABC.5-1	S	7/20/2007	809899	2371508	38, 39POG3N	37.5	49	0.049	
123ABCD	1-RA-07-POG3-PS-123A-D0-.5	S	7/11/2007	809833	2371620	38, 39POG3N	22	1200	1.2	
123ABCD	1-RA-07-POG3-PS-123A.5-1,B.5-1.1,C.5-1.22,D.5-1.05	S	7/20/2007	809833	2371620	38, 39POG3N	34.9	59	0.059	
124ABC	1-RA-07-POG3-PS-124AC0-.5,B0-.4	S	7/11/2007	810098	2371396	40, 41POG3N	56.6	170	0.17	
125ABCD	1-RA-07-POG3-PS-125ACD0-.5,B0-.49	S	7/11/2007	810031	2371508	40, 41POG3N	44.3	330	0.33	
126AB	1-RA-07-POG3-PS-126AB0-.5	S	7/11/2007	810220	2371489	41POG3N	54.6	400	0.4	
1ABC	1-RA-07-POG3-PSSC-1A0-.7,BC0-.5	S	5/14/2007	807082	2370972		55.1	370	0.37	Proposed Sand Placement Area
2ABC	1-RA-07-POG3-PSSC-2ABC0-.5	S	5/14/2007	807086	2371065		65.0	1300	1.3	Proposed Sand Placement Area
3ABCD	1-RA-07-POG3-PSSC-3ACD0-.5,B0-.36	S	5/14/2007	808257	2371605		48.9	290	0.29	Proposed Sand Placement Area
3ABCD/Dup.	1-RA-07-POG3-PSSC-3ACD0-.5,B0-.36-DUP	S/Dup.	5/14/2007	808257	2371605		49.1	290	0.29	Proposed Sand Placement Area

A = All Soft Sediment

SOC = Step Out Core

SPS = State Plane South

DMU = Dredge Management Unit

ppb = parts per billion

ppm = parts per million

Data from the 2007 RA Summary Report, Appendix D, Table D-1.

Prepared by: ECB

Checked by: SVF

Table B-6
Lower Fox River - OU1
2008 Post-Dredge Sediment Sampling Results

Sub-area	ID	Sampe ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids (%)	Total PCB (ppb)	Total PCB (ppm)	Comments
Sub-area C											
Primary Samples											
C	15P	1-RA-08-000C-PS-15P0-.5	P	04/22/2008	806905.31	2369155.11	15C	66.1	13000	13	
Sub-area C											
Composite Secondary Samples											
C	15A	1-RA-08-000C-PS-15A0-.5	S	04/22/2008	806896.89	2369146.45	15C	78.3	330	0.33	
C	6B	1-RA-08-000C-RDRD-6B0-.49	S	04/22/2008	806693.93	2368893.50	5C-A	54.3	12900	12.9	
Sub-area D1											
Primary Samples											
D1	66P	1-RA-08-00D1-PS-66P0-.5	P	06/03/2008	809027.97	2370476.50	33D1	20.8	3400	3.4	
D1	66P	1-RA-08-00D1-PS-66P.5-1.08	P	06/03/2008	809027.97	2370476.50	33D1	32.7	<13.1	<0.0131	
D1	67P	1-RA-08-00D1-PS-67P0-.5	P	06/03/2008	809625.17	2370602.43	33D1	22.2	387	0.387	
D1	68P	1-RA-08-00D1-PS-68P0-.58	P	06/03/2008	809827.55	2370713.53	33D1	55.9	94.2	0.0942	
Sub-area D1											
Composite Secondary Samples											
D1	66ABCD	1-RA-08-00D1-PS-66ACD0-.5,B0-.56	S	06/06/2008	809127.13	2370497.14	33D1	30.7	515	0.515	
D1	67ABC	1-RA-08-00D1-PS-67ABC0-.5	S	06/06/2008	809613.36	2370641.31	33D1	20.5	990	0.99	
D1	68AC	1-RA-08-00D1-PS-68A0-.5,C0-.46	S	06/06/2008	809846.92	2370710.69	33D1	34.1	275	0.275	
Sub-area D2N											
Primary Samples											
D2N	1P	1-RA-08-0D2N-PS-1P0-.5	P	05/28/2008	808272.30	2370754.95	1D2N	60.6	<12.8	<0.0128	
D2N	2P	1-RA-08-0D2N-PS-2P0-.5	P	05/28/2008	808618.05	2370392.59	2D2N	32.3	42.5	0.0425	
D2N	3P	1-RA-08-0D2N-PS-3P0-.26	P	06/06/2008	809825.60	2370788.66	3D2N	67.9	242	0.242	
Sub-area D2N											
Composite Secondary Samples											
D2N	1A	1-RA-08-0D2N-PS-1A0-.5	S	05/28/2008	808320.22	2370783.06	1D2N	63.5	77.8	0.0778	
D2N	2A	1-RA-08-0D2N-PS-2A0-.41	S	06/09/2008	808738.94	2370430.00	2D2N	39.3	1140	1.14	
D2N	2B	1-RA-08-0D2N-PS-2B0-.25	S	05/28/2008	808738.94	2370430.00	2D2N	30.7	<12.9	<0.0129	
D2N	3A	1-RA-08-0D2N-PS-3A0-.26	S	06/06/2008	809871.81	2370785.50	3D2N	79.2	38.9	0.0389	
Sub-area E3N											
Primary Samples											
E3N	1P	1-RA-08-0E3N-PS-1P0-.5	P	06/12/2008	814753.97	2372046.50	1E3N	39.5	336	0.336	
E3N	2P	1-RA-08-0E3N-PS-2P0-.55	P	06/12/2008	814978.11	2372213.41	1E3N	66.3	25.4	0.0254	
E3N	3P	1-RA-08-0E3N-PS-3P0-.27	P	06/12/2008	815255.66	2372404.41	2E3N	71.6	63.8	0.0638	
E3N	4P	1-RA-08-0E3N-PS-4P0-.46	P	06/12/2008	815806.52	2372729.29	2E3N	68.4	44.8	0.0448	
Sub-area E3N											
Composite Secondary Samples											
E3N	1ABC	1-RA-08-0E3N-PS-1A0-.5,B0-.7,C0-.62	S	06/12/2008	814783.84	2371965.88	1E3N	64	37.1	0.0371	
E3N	2ABC	1-RA-08-0E3N-PS-2A0-.33,B0-.58,C0-.5	S	06/12/2008	814932.01	2372157.65	1E3N	69	15.9	0.0159	
E3N	3ABCD	1-RA-08-0E3N-PS-3A0-.5,B0-.33,C0-.35,D0-.42	S	06/12/2008	815257.28	2372405.99	2E3N	70.4	40.6	0.0406	
E3N	4AB	1-RA-08-0E3N-PS-4A0-.6,B0-.52	S	06/12/2008	815803.24	2372717.78	2E3N	75.2	17.3	0.0173	

Sub-area	ID	Sampe ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids (%)	Total PCB (ppb)	Total PCB (ppm)	Comments
Sub-area E3S											
Primary Samples											
E3S	17P	1-RA-08-0E3S-PS-17P0-.5	P	06/24/2008	812241.96	2370938.10	9E3S	31.3	371	0.371	
E3S	33P	1-RA-08-0E3S-PS-33P0-.5	P	05/22/2008	812815.15	2370826.96	17E3S	28.5	315	0.315	
E3S	34P	1-RA-08-0E3S-PS-34P0-.5	P	05/22/2008	812899.60	2370851.67	17E3S	33.4	40.8	0.0408	
E3S	37P	1-RA-08-0E3S-PS-37P0-.5	P	06/09/2008	813009.48	2370939.48	19E3S	33	380	0.38	
E3S	38P	1-RA-08-0E3S-PS-38P0-.5	P	06/09/2008	813094.41	2370905.30	19E3S	36.5	209	0.209	
E3S	39P	1-RA-08-0E3S-PS-39P0-.5	P	05/29/2008	813012.18	2371168.01	20E3S	31.3	26.4	0.0264	
E3S	40P	1-RA-08-0E3S-PS-40P0-.5	P	05/29/2008	813115.25	2371229.97	20E3S	36.8	68.6	0.0686	
E3S	41P	1-RA-08-0E3S-PS-41P0-.73	P	06/18/2008	813210.36	2370821.21	21E3S	31.9	71.4	0.0714	
E3S	42P	1-RA-08-0E3S-PS-42P0-.5	P	06/18/2008	813272.91	2370840.98	21E3S	32	133	0.133	
E3S	43P	1-RA-08-0E3S-PS-43P0-.5	P	06/18/2008	813214.49	2371287.58	22E3S	28.2	441	0.441	
E3S	44P	1-RA-08-0E3S-PS-44P0-.5	P	06/18/2008	813274.01	2371299.85	22E3S	35.7	84.1	0.0841	
E3S	45P	1-RA-08-0E3S-PS-45P0-.5	P	06/13/2008	813412.48	2370944.20	23E3S	34	<13.5	<0.135	
E3S	46P	1-RA-08-0E3S-PS-46P0-.5	P	06/13/2008	813394.95	2371047.20	23E3S	31.8	280	0.28	
E3S	47P	1-RA-08-0E3S-PS-47P0-.5	P	06/18/2008	813410.55	2371165.68	24E3S	36.1	73.7	0.0737	
E3S	48P	1-RA-08-0E3S-PS-48P0-.5	P	06/18/2008	813416.78	2371399.14	24E3S	32.3	563	0.563	
E3S	49P	1-RA-08-0E3S-PS-49P0-.5	P	06/18/2008	813607.68	2370827.56	25E3S	34.9	36.1	0.0361	
E3S	50P	1-RA-08-0E3S-PS-50P0-.5	P	06/18/2008	813608.44	2371058.55	25E3S	34.6	97.2	0.0972	
E3S	51P	1-RA-08-0E3S-PS-51P0-.5	P	06/18/2008	813541.59	2371199.59	26E3S	38.3	35.7	0.0357	
E3S	52P	1-RA-08-0E3S-PS-52P0-.6	P	06/18/2008	813612.55	2371285.82	26E3S	26	246	0.246	
E3S	76P	1-RA-08-0E3S-PS-76P0-.5	P	06/03/2008	811416.12	2371403.65	38E3S	24.2	931	0.931	
E3S	77P	1-RA-08-0E3S-PS-77P0-.5	P	06/03/2008	812009.07	2371515.39	38E3S	21.6	1790	1.79	
E3S	77P	1-RA-08-0E3S-PS-77P.5-1	P	06/03/2008	812009.07	2371515.39	38E3S	51.6	99.6	0.0996	
E3S	78P	1-RA-08-0E3S-PS-78P0-.5	P	06/20/2008	812815.26	2371515.17	39E3S	18.9	809	0.809	
E3S	79P	1-RA-08-0E3S-PS-79P0-.5	P	06/20/2008	812885.31	2371541.48	39E3S	19.9	791	0.791	
E3S	80P	1-RA-08-0E3S-PS-80P0-.5	P	06/19/2008	813125.17	2371536.20	40E3S	29.8	288	0.288	
E3S	81P	1-RA-08-0E3S-PS-81P0-.5	P	06/19/2008	813211.37	2371512.70	40E3S	19.9	59.3	0.0593	
E3S	82P	1-RA-08-0E3S-PS-82P0-.5	P	06/17/2008	813320.02	2371510.57	41E3S	27	58.6	0.0586	
E3S	83P	1-RA-08-0E3S-PS-83P0-.5	P	06/17/2008	813463.16	2371479.87	41E3S	23.7	85.5	0.0855	
E3S	84P	1-RA-08-0E3S-PS-84P0-.5	P	06/24/2008	813707.29	2371587.83	42E3S	19.3	1470	1.47	
E3S	84P	1-RA-08-0E3S-PS-84P.5-.93	P	06/24/2008	813707.29	2371587.83	42E3S	20.8	85.1	0.0851	
E3S	85P	1-RA-08-0E3S-PS-85P0-.5	P	06/24/2008	813810.40	2371634.68	42E3S	21.7	44.9	0.0449	
E3S	86P	1-RA-08-0E3S-PS-86P0-.5	P	06/25/2008	813883.49	2371567.11	43E3S	18	844	0.844	
E3S	87P	1-RA-08-0E3S-PS-87P0-.5	P	06/25/2008	814010.42	2371510.71	43E3S	36.9	23.3	0.0233	
E3S	88P	1-RA-08-0E3S-PS-88P0-.73	P	06/25/2008	814116.48	2371593.99	44E3S	35	88.2	0.0882	
E3S	89P	1-RA-08-0E3S-PS-89P0-.5	P	06/25/2008	814211.19	2371628.92	44E3S	20	336	0.336	
E3S	90P	1-RA-08-0E3S-PS-90P0-.5	P	06/25/2008	814579.01	2371695.75	45E3S	25.7	55.1	0.0551	
E3S	91P	1-RA-08-0E3S-PS-91P0-.5	P	06/25/2008	814609.77	2371850.60	45E3S	32.6	147	0.147	
E3S	92P	1-RA-08-0E3S-PS-92P0-.5	P	06/24/2008	814683.66	2371903.88	46E3S	66.1	87	0.087	
E3S	93P	1-RA-08-0E3S-PS-93P0-.5	P	06/24/2008	814807.78	2371752.48	46E3S	21.9	227	0.226	
Sub-area E3S											
Composite Secondary Samples											
E3S	17ABC	1-RA-08-0E3S-PS-17ABC0-.5	S	06/25/2008	812232.76	2371105.27	9E3S	38	360	0.36	
E3S	33ABCD	1-RA-08-0E3S-PS-33A-D0-.5	S	05/23/2008	812801.30	2370862.97	17E3S	31.8	49.4	0.0494	
E3S	34ABCD	1-RA-08-0E3S-PS-34A-D0-.5	S	05/23/2008	812902.72	2370858.39	17E3S	31.7	58.9	0.0589	
E3S	34ABCD/Dup.	1-RA-08-0E3S-PS-34A-D0-.5-DUP	S/Dup.	05/23/2008	812902.72	2370858.39	17E3S	33.2	59.3	0.0593	
E3S	37ABCD	1-RA-08-0E3S-PS-37A-D0-.5	S	06/10/2008	813005.86	2370948.09	19E3S	33.1	27.3	0.0273	
E3S	37ABCD/Dup.	1-RA-08-0E3S-PS-37A-D0-.5-Dup	S/Dup.	06/10/2008	813005.86	2370948.09	19E3S	33.7	29	0.029	
E3S	38ABCD	1-RA-08-0E3S-PS-38A-D0-.5	S	06/10/2008	813099.49	2370907.17	19E3S	31.7	116	0.116	

Sub-area	ID	Sampe ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids (%)	Total PCB (ppb)	Total PCB (ppm)	Comments
E3S	39ABCD	1-RA-08-0E3S-PS-39A-D0-.5	S	06/03/2008	813016.88	2371180.07	20E3S	36.1	43.1	0.0431	
E3S	40ABCD	1-RA-08-0E3S-PS-40A-D0-.5	S	06/03/2008	813115.15	2371220.26	20E3S	38.7	86.8	0.0868	
E3S	41ABC	1-RA-08-0E3S-PS-41ABC0-.5	S	06/20/2008	813191.16	2370846.95	21E3S	31.1	292	0.292	
E3S	41ABC/Dup.	1-RA-08-0E3S-PS-41ABC0-.5-Dup	S/Dup.	06/20/2008	813191.16	2370846.95	21E3S	32.1	301	0.301	
E3S	42ABC	1-RA-08-0E3S-PS-42ABC0-.5	S	06/20/2008	813280.51	2370866.64	21E3S	34.5	189	0.189	
E3S	43ABCD	1-RA-08-0E3S-PS-43A-D0-.5	S	06/19/2008	813194.88	2371299.12	22E3S	46.7	341	0.341	
E3S	44ABCD	1-RA-08-0E3S-PS-44ABC0-.5D0-.25	S	06/19/2008	813277.34	2371298.32	22E3S	43.7	216	0.216	
E3S	45ABCD	1-RA-08-0E3S-PS-45A-D0-.5	S	06/16/2008	813396.05	2370892.96	23E3S	33.4	177	0.177	
E3S	45ABCD/Dup.	1-RA-08-0E3S-PS-45A-D0-.5-Dup	S/Dup.	06/16/2008	813396.05	2370892.96	23E3S	31.5	85.3	0.0853	
E3S	46ABCD	1-RA-08-0E3S-PS-46A-D0-.5	S	06/16/2008	813394.25	2371047.75	23E3S	20.2	415	0.415	
E3S	47ABCD	1-RA-08-0E3S-PS-47A-D0-.5	S	06/19/2008	813393.69	2371201.56	24E3S	28.5	470	0.47	
E3S	48ABCD	1-RA-08-0E3S-PS-48ABC0-.5D0-.55	S	06/19/2008	813390.76	2371361.76	24E3S	47.7	94.5	0.0945	
E3S	49ABC	1-RA-08-0E3S-PS-49ABC0-.5	S	06/19/2008	813557.59	2370906.93	25E3S	36	149	0.149	
E3S	50ABCD	1-RA-08-0E3S-PS-50A-D0-.5	S	06/19/2008	813530.61	2371050.96	25E3S	34.9	186	0.186	
E3S	51ABCD	1-RA-08-0E3S-PS-51A-D0-.5	S	06/19/2008	813540.55	2371201.12	26E3S	35.3	290	0.29	
E3S	52ABCD	1-RA-08-0E3S-PS-52A-D0-.5	S	06/19/2008	813546.05	2371362.34	26E3S	36	153	0.153	
E3S	76ABCD	1-RA-08-0E3S-PS-76ACD0-.5B0-.6	S	06/05/2008	811474.89	2371433.32	38E3S	27.5	227	0.227	
E3S	76ABCD/Dup.	1-RA-08-0E3S-PS-76ACD0-.5B0-.6-Dup	S/Dup.	06/05/2008	811474.89	2371433.32	38E3S	29.3	283	0.283	
E3S	77ABCD	1-RA-08-0E3S-PS-77A-D0-.5	S	06/05/2008	811796.48	2371505.00	38E3S	40.6	119	0.119	
E3S	78ABCD	1-RA-08-0E3S-PS-78A-D0-.5	S	06/23/2008	812528.62	2371552.33	39E3S	24.9	1060	1.06	
E3S	78ABCD/Dup.	1-RA-08-0E3S-PS-78A-D0-.5-Dup	S/Dup.	06/23/2008	812528.62	2371552.33	39E3S	23.5	954	0.954	
E3S	78ABC	1-RA-08-0E3S-PS-78A.5-1.B.5-1.03.C.5-1.08	S	06/27/2008	812528.62	2371552.33	39E3S	43.4	46.3	0.0463	
E3S	79ABCD	1-RA-08-0E3S-PS-79A-D0-.5	S	06/23/2008	812884.18	2371546.13	39E3S	22	283	0.283	
E3S	80ABC	1-RA-08-0E3S-PS-80ABC0-.5	S	06/20/2008	813125.43	2371551.98	40E3S	27	282	0.282	
E3S	81ABC	1-RA-08-0E3S-PS-81ABC0-.5	S	06/20/2008	813206.37	2371533.88	40E3S	36.7	589	0.589	
E3S	82ABC	1-RA-08-0E3S-PS-82ABC0-.5	S	06/18/2008	813313.74	2371546.81	41E3S	19.6	530	0.53	
E3S	83ABCD	1-RA-08-0E3S-PS-83A-D0-.5	S	06/18/2008	813506.14	2371509.62	41E3S	23.7	474	0.474	
E3S	83ABCD/Dup.	1-RA-08-0E3S-PS-83A-D0-.5-Dup	S/Dup.	06/18/2008	813506.14	2371509.62	41E3S	22.1	544	0.544	
E3S	84ABCD	1-RA-08-0E3S-PS-84A-D0-.5	S	06/25/2008	813683.99	2371562.97	42E3S	34.5	124	0.124	
E3S	85ABC	1-RA-08-0E3S-PS-85ABC0-.5	S	06/25/2008	813797.81	2371530.49	42E3S	21	573	0.573	
E3S	85ABC/Dup.	1-RA-08-0E3S-PS-85ABC0-.5-Dup	S/Dup.	06/25/2008	813797.81	2371530.49	42E3S	22	565	0.565	
E3S	86ABCD	1-RA-08-0E3S-PS-86A-D0-.5	S	06/26/2008	813885.82	2371576.23	43E3S	23.9	577	0.577	
E3S	86ABCD/Dup.	1-RA-08-0E3S-PS-86A-D0-.5-Dup	S/Dup.	06/26/2008	813885.82	2371576.23	43E3S	24.1	594	0.594	
E3S	87ABCD	1-RA-08-0E3S-PS-87A-D0-.5	S	06/26/2008	814000.86	2371578.04	43E3S	27.5	443	0.443	
E3S	88ABCD	1-RA-08-0E3S-PS-88A-D0-.5	S	06/26/2008	814105.95	2371580.96	44E3S	27.1	480	0.48	
E3S	89ABCD	1-RA-08-0E3S-PS-89A-D0-.5	S	06/26/2008	814239.36	2371612.34	44E3S	22.8	482	0.482	
E3S	90ABCD	1-RA-08-0E3S-PS-90A-D0-.5	S	06/26/2008	814597.86	2371701.30	45E3S	25.2	239	0.239	
E3S	91ABCD	1-RA-08-0E3S-PS-91ACD0-.5B0-.67	S	06/26/2008	814582.54	2371825.72	45E3S	42.1	31.1	0.0311	
E3S	92ABCD	1-RA-08-0E3S-PS-92ABC0-.5D0-.55	S	06/25/2008	814678.12	2371915.64	46E3S	58.8	95.2	0.0952	
E3S	92ABCD/Dup.	1-RA-08-0E3S-PS-92ABC0-.5D0-.55-Dup	S/Dup.	06/25/2008	814678.12	2371915.64	46E3S	58.4	36.6	0.0366	
E3S	93ABCD	1-RA-08-0E3S-PS-93A-D0-.5	S	06/25/2008	814802.70	2371803.15	46E3S	25.9	171	0.171	
Sub-area E4											
Primary Samples											
E4	1P	1-RA-08-00E4-PS-1P0-.74	P	06/27/2008	813390.47	2372811.78	1E4	55.8	19.5	0.0195	
E4	2P	1-RA-08-00E4-PS-2P0-.6	P	06/27/2008	813452.78	2372821.48	1E4	54.3	<12.8	<0.0128	
Sub-area E4											
Composite Secondary Samples											
E4	1ABC	1-RA-08-00E4-PS-1A0-.5B0-.27C0-.68	S	06/27/2008	813343.19	2372811.71	1E4	44.8	181	0.181	
E4	1ABC/Dup.	1-RA-08-00E4-PS-1A0-.5B0-.27C0-.68-Dup	S/Dup.	06/27/2008	813343.19	2372811.71	1E4	43.2	276	0.276	
E4	2ABC	1-RA-08-00E4-PS-2ABC0-.5	S	06/27/2008	813450.68	2372807.60	1E4	41	215	0.215	

Sub-area	ID	Sampe ID	Sample Type	Collection Date	Actual Y (SPS)	Actual X (SPS)	DMU	Percent Solids (%)	Total PCB (ppb)	Total PCB (ppm)	Comments
Sub-area POG1											
Primary Samples											
POG1	3P	1-RA-08-POG1-PSRD-3P	P	05/16/2008	806292.73	2371440.46	2POG1	--	16.8	0.0168	No Recovery
POG1	6P	1-RA-08-POG1-PSRD-6P	P	05/16/2008	806442.74	2371512.43	3POG1	--	16.8	0.0168	No Recovery
Sub-area POG3											
Primary Samples											
POG3	117P	1-RA-08-POG3-PSRD-117P0-.5	P	05/28/2008	809500.93	2371529.21	36POG3N	21.9	87.0	0.087	
Sub-area POG3											
Composite Secondary Samples											
POG3	117ABCD	1-RA-08-POG3-PSRD-117A0-.26,B0-.63,CD0-.5	S	05/30/2008	809499.62	2371499.32	36POG3N	24.7	142	0.142	
POG3	117ABCD/Dup.	1-RA-08-POG3-PSRD-117A0-.26,B0-.63,CD0-.5-Dup	S/Dup.	05/30/2008	809499.62	2371499.32	36POG3N	23.5	97.6	0.0976	
POG3	92CD	1-RA-08-POG3-PSRD-92C0-.51,D0-.32	S	05/30/2008	809277.88	2371616.00	35POG3N	39.6	19.8	0.0198	
Sub-area POG4											
Primary Samples											
POG4	10P	1-RA-08-POG4-PS-10P0-.62	P	05/16/2008	807080.14	2372984.41	6POG4	57	302	0.302	
POG4	11P	1-RA-08-POG4-PS-11P0-.5	P	05/22/2008	808135.50	2372615.33	7POG4	64.1	<12.8	<0.0128	
POG4	12P	1-RA-08-POG4-PS-12P0-.57	P	05/22/2008	808210.79	2372693.44	7POG4	62.9	<12.8	<0.0128	
Sub-area POG4											
Composite Secondary Samples											
POG4	10AB	1-RA-08-POG4-PS-10A0-.5,B0-.4	S	05/19/2008	807351.19	2373078.80	6POG4	45.6	789	0.789	
POG4	11AB	1-RA-08-POG4-PS-11A0-.37,B0-.5	S	05/23/2008	808143.63	2372662.09	7POG4	58.4	45.0	0.045	
POG4	12AB	1-RA-08-POG4-PS-12A0-.7,B0-.5	S	05/23/2008	808213.94	2372745.32	7POG4	48.6	34.2	0.0342	

PS = Post Dredge

PSRD = Post Dredge Redredge

RD = Residual Dredge

RDRD = Residual Dredge Redredge

SOC = Step Out Core

SPS = State Plane South

DMU = Dredge Management Unit

ppb = parts per billion

ppm = parts per million

Data from the 2008 RA Summary Report, Appendix D, Table D-1.

Prepared by: ECB

Checked by: SVF

ATTACHMENT B

Maps and Figures

B.1. Location Maps

B.1.a. Location Map

- Figure 1 Lower Fox River PCB Contaminated Sediment Deposits and Operable Units
- Figure 1-1 Site Location Map
- Figure 1-1 OU1 Long-Term Monitoring Fox River Remediation Operable Units

B.1.b. Detailed Site Map

- Figure 2-1 OU1 Long-Term Monitoring
- Figure 1 GIS Registry OU1 Parcel Overview
- Figure 2 GIS Registry for OU1 Parcel Area 1
- Figure 3 GIS Registry for OU1 Parcel Area 2
- Figure 4 GIS Registry for OU1 Parcel Area 3
- Figure 5 GIS Registry for OU1 Parcel Area 4

B.1.c. RR Sites Map

Section not required to be completed per WDNR.

B.2. Soil Figures

Section not required to be completed per WDNR.

B.3. Groundwater Figures

Section not required to be completed per WDNR.

B.4. Vapor Maps and Other Media

B.4.a. Vapor Intrusion Map

Section not required to be completed per WDNR.

B.4.b. Other media of concern (e.g., sediment or surface water)

B.4.b.1 Pre-Remedial Sediment Sampling

From REF G, *Lower Fox River OUI Pre-design - Basis of Design in BOTW*:

Figure 6 Pre-design Sampling, Revised Sub-area Designations and Sample Locations

Figure 8A-O GMS Interpolated Sub-area PCB Concentrations:

- Figure 8A – Sub-Area A
- Figure 8B – Sub-Area C
- Figure 8C – Sub-Area D1
- Figure 8D – Sub-Area D2
- Figure 8E - Sub-Area E1
- Figure 8F – Sub-Area E2
- Figure 8G – Sub-Area E3
- Figure 8H – Sub-Area E4
- Figure 8I – Sub Area E5
- Figure 8J – Sub-Area E6
- Figure 8K – Sub-Area F
- Figure 8L – Sub-Area POG1
- Figure 8M – Sub-Area POG2
- Figure 8N – Sub-Area POG3
- Figure 8O – Sub-Area POG4

B.4.b.2 Post-Remedial Sediment Sampling

From REF T, *2010-11 Certification of Completion Report in BOTW*:

- Figure 1-26 Lower Fox River OU1 SWAC Calculation Surficial PCB Concentrations (South)
- Figure 1-27 Lower Fox River OU1 SWAC Calculation Surficial PCB Concentrations (North)
- Figure 1-28A Lower Fox River OU1 SWAC Calculation Surficial Concentration, Numerical PCB Value at Locations
- Figure 1-28B Lower Fox River OU1 SWAC Calculation Surficial Concentration, Numerical PCB Value at Locations
- Figure 1-28C Lower Fox River OU1 SWAC Calculation Surficial Concentration, Numerical PCB Value at Locations
- Figure 1-28D Lower Fox River OU1 SWAC Calculation Surficial Concentration, Numerical PCB Value at Locations

WDNR Site Name: Lower Fox River OU1
Case Closure – GIS Registry, Form 4400-202 (rev. 8/16)

- Figure 1-28E Lower Fox River OU1 SWAC Calculation Surficial Concentration, Numerical PCB Value at Locations
- Figure 1-28F Lower Fox River OU1 SWAC Calculation Surficial Concentration, Numerical PCB Value at Locations
- Figure 1-28G Lower Fox River OU1 SWAC Calculation Surficial Concentration, Numerical PCB Value at Locations
- Figure 1-28H Lower Fox River OU1 SWAC Calculation Surficial Concentration, Numerical PCB Value at Locations

B.4.c. Other

Refer to REF Z, *2012 Long-term Monitoring Summary Report – Lower Fox River Operable Unit 1* in BOTW.

B.5 Structural Impediment Photos

Not applicable. No structural impediments exist.

There were no structural impediments in the Operable Unit 1 (OU 1) of the Lower Fox River PCB Cleanup Superfund Project (Project).

The PCB remedial action level (RAL) for this Project is 1.0 ppm.

For Project completion, the 2002 ROD required that the remedial action (RA) successfully accomplished one of the following options:

1. Remediation of all RAL sediment by dredging, capping, residual sand cover, and or remedy sand cover.
2. Remediation of RAL sediment that resulted in a PCB surface weighted average concentration (SWAC) of 0.25 ppm or less.

The OU 1 post-RA SWAC was 0.23 ppm, and this was the completion option applied by the RPs and approved by the government oversight Agencies (US EPA and Wisconsin DNR) for OU 1. There are areas of sediment within OU 1 that exceed the PCB project RAL and state standards. Any future in-river work (e.g., dredging, structure removal or installation, etc.) will rely on Wisconsin laws and regulations (e.g., Chapter 30 permitting, Administrative Code NR347 sediment characterization) as an Institutional Control (IC) to assure proper handling and disposal of any remaining PCB contaminated sediment disturbed by future activity.

B.1.a. Location Map

Lower Fox River PCB Contaminated Sediments Deposits

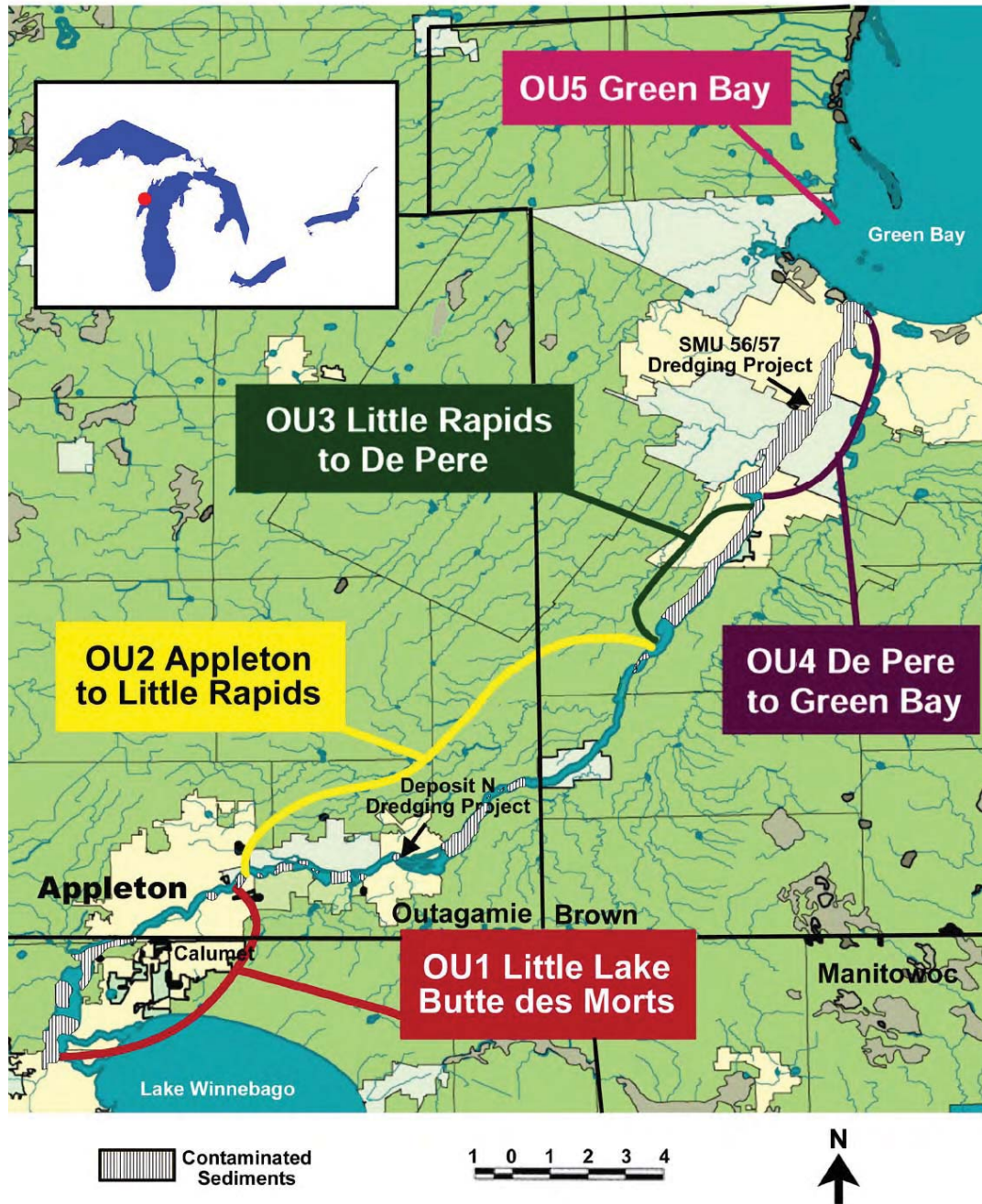
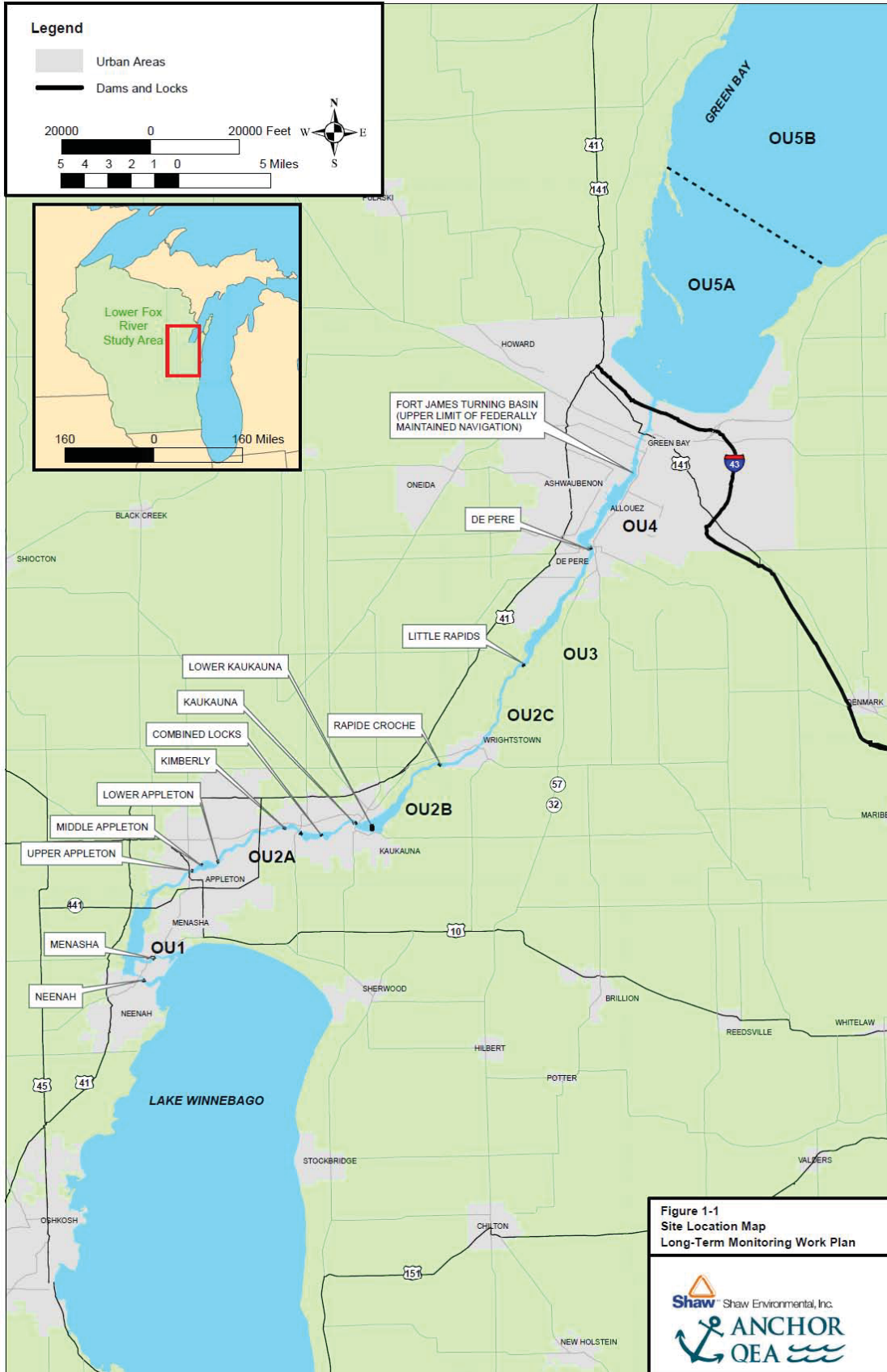
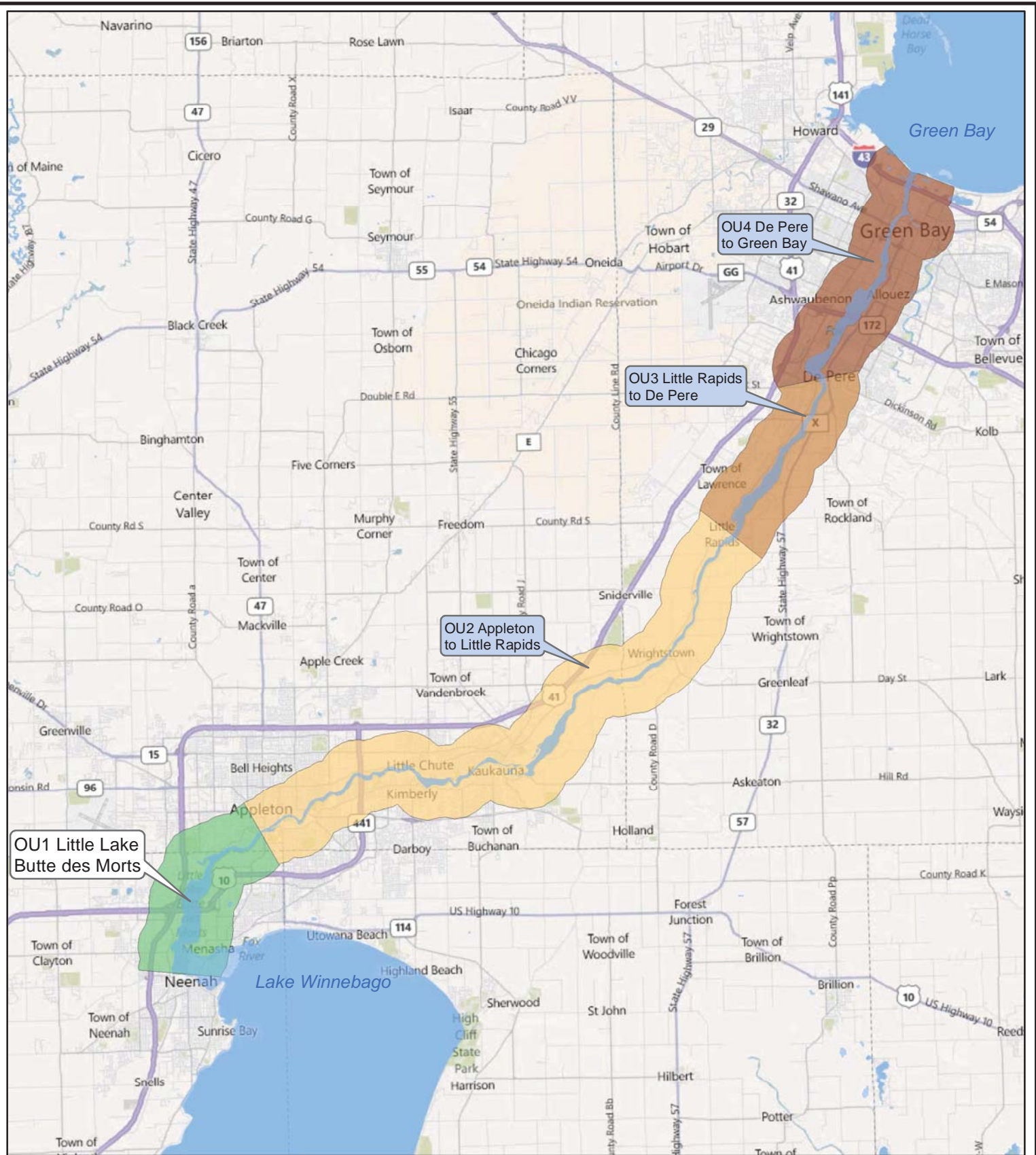


Figure 1. Lower Fox River PCB-Contaminated Sediment Deposits and Operable Units





NOTES:

1. Base Data from Wisconsin DNR and ESRI Basemaps.



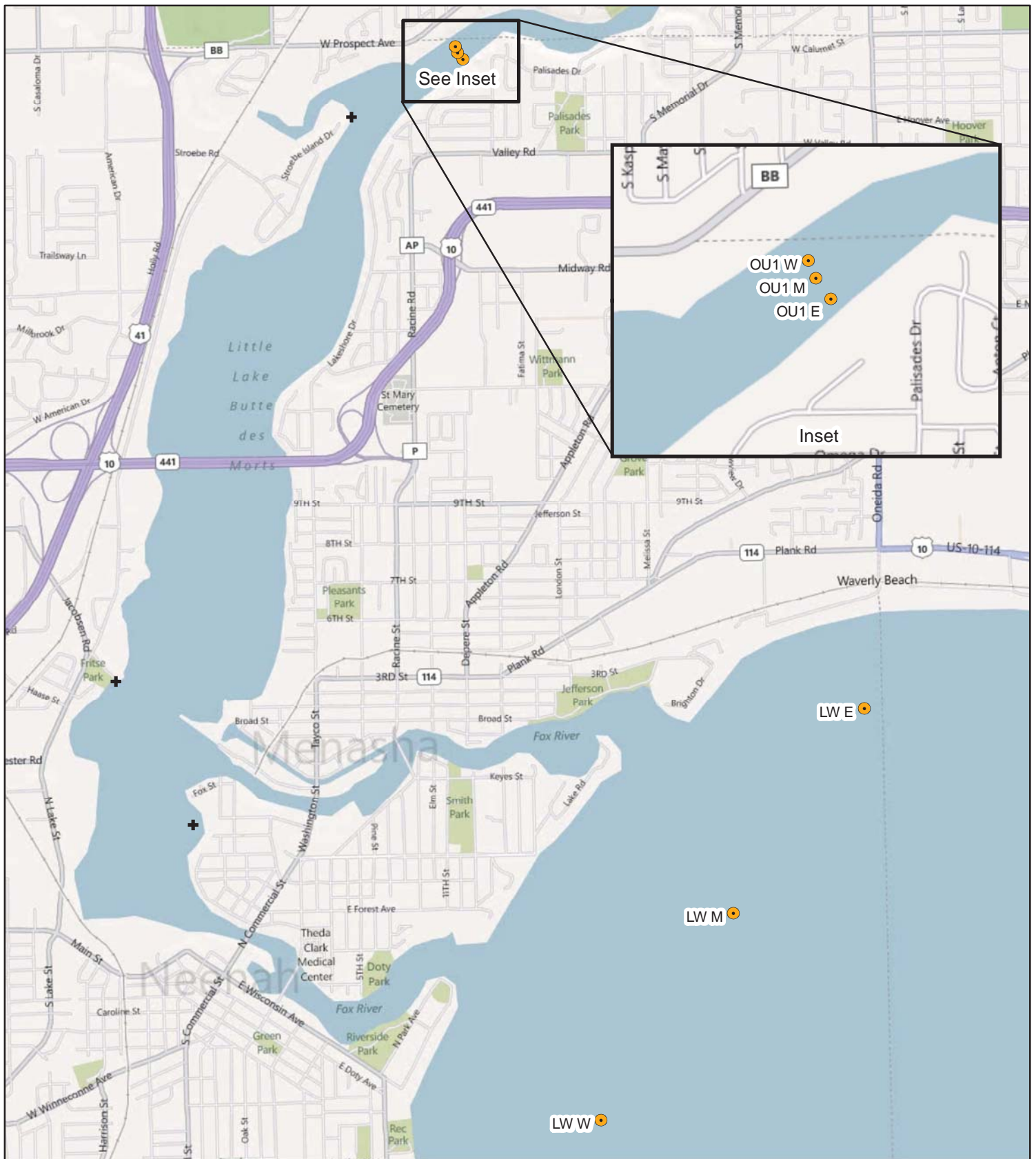
GW PARTNERS, LLC

FIGURE 1-1
OU1 LONG-TERM MONITORING
FOX RIVER REMEDIATION
OPERABLE UNITS

Date: NOVEMBER 2011	Revision Date:
Drawn By: DAT	Checked By: JBM
Scope: 10G007	

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.

B.1.b. Detailed Site Map



NOTES:

1. Base Data from Wisconsin DNR and ESRI Basemaps.

LEGEND

- Proposed Transect Water Sample Location
- + Benchmark Locations



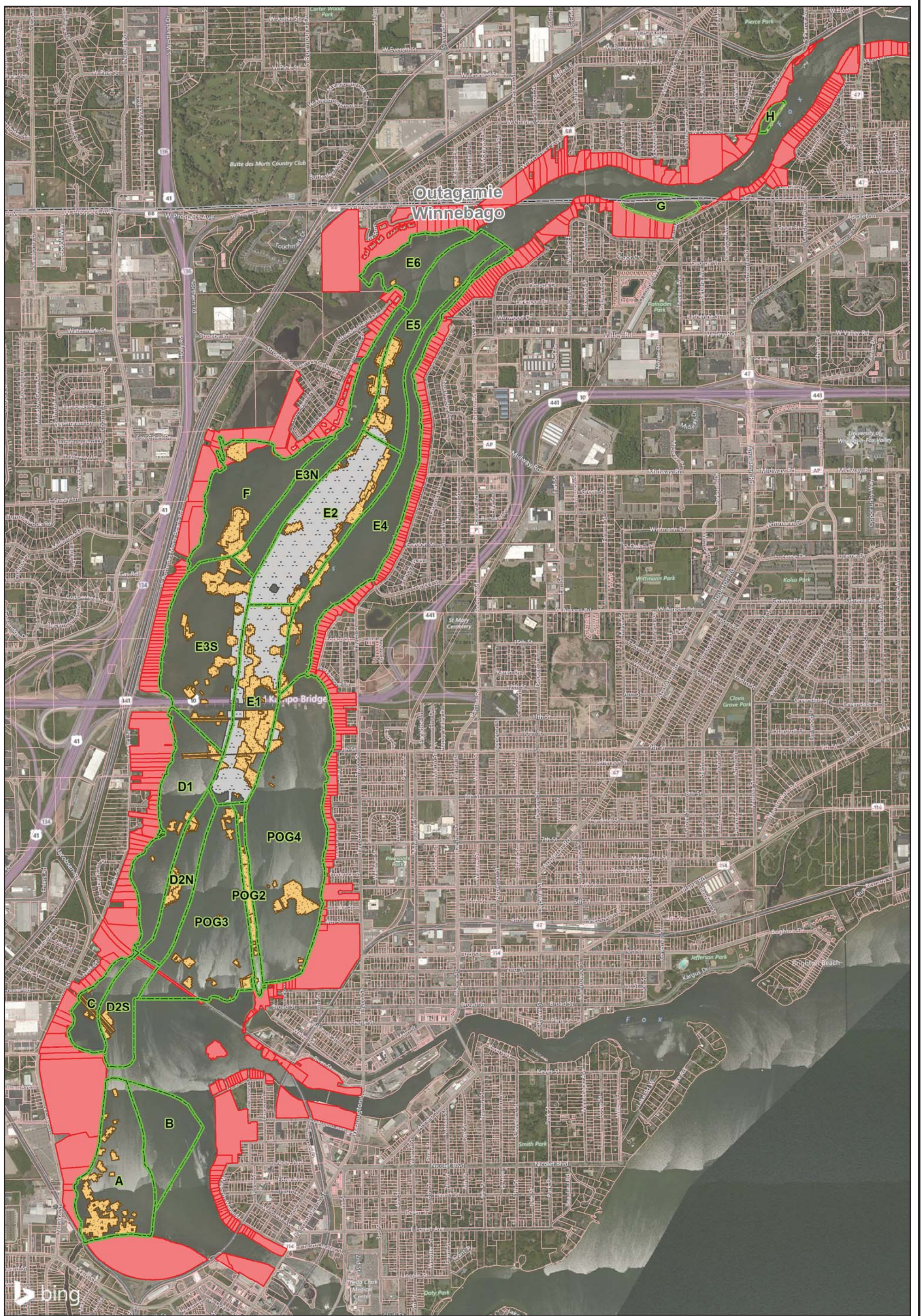
GW PARTNERS, LLC

FIGURE 2-1

OU1 LONG-TERM MONITORING
OU1-LTMP WATER SAMPLING TRANSECTS

Date: NOVEMBER 2011	Revision Date:
Drawn By: DAT	Checked By: JBM
Scope: 10G007	

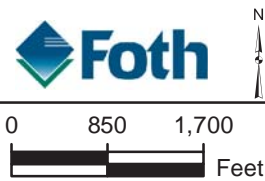
This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.



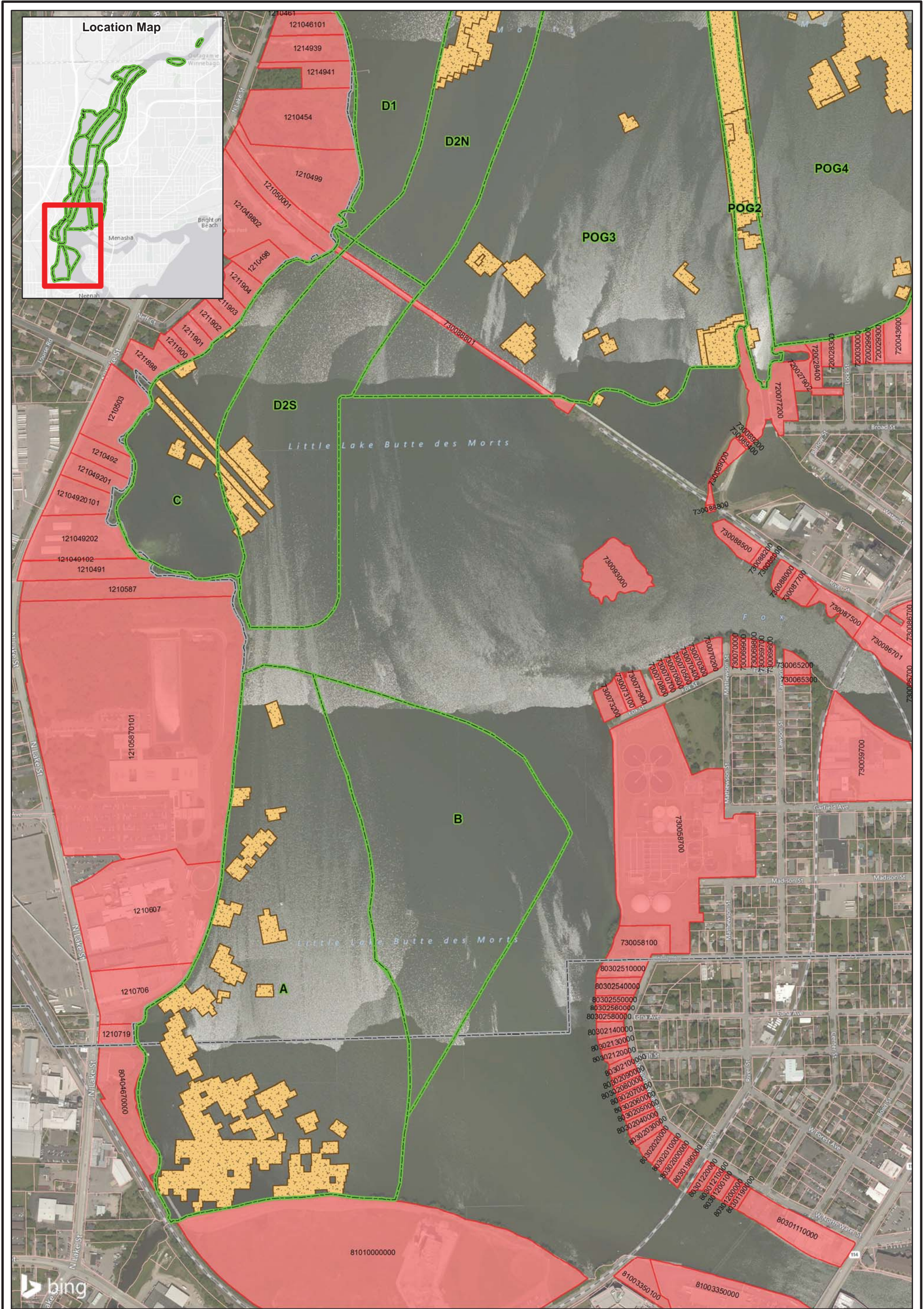
NOTES:
 1. Coordinate System: Wisconsin SPS, NAD83
 2. Parcels supplied by Outagamie Co and Winnebago Co GIS

- LEGEND**
- Counties
 - OU1 Sub-areas
 - Cap Placement Limits
 - Sand Placement Limits
 - GIS Registry Parcels
 - Parcels

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.



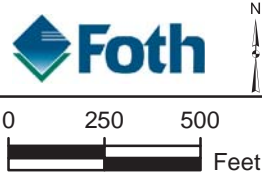
GW PARTNERS		
FIGURE 1		
GIS REGISTRY OU1 PARCEL OVERVIEW OUTAGAMIE AND WINNEBAGO COUNTIES		
Date: MAY 2017	Revision Date:	
Drawn By: DAT	Checked By: TMK1	Project: 12G007.17



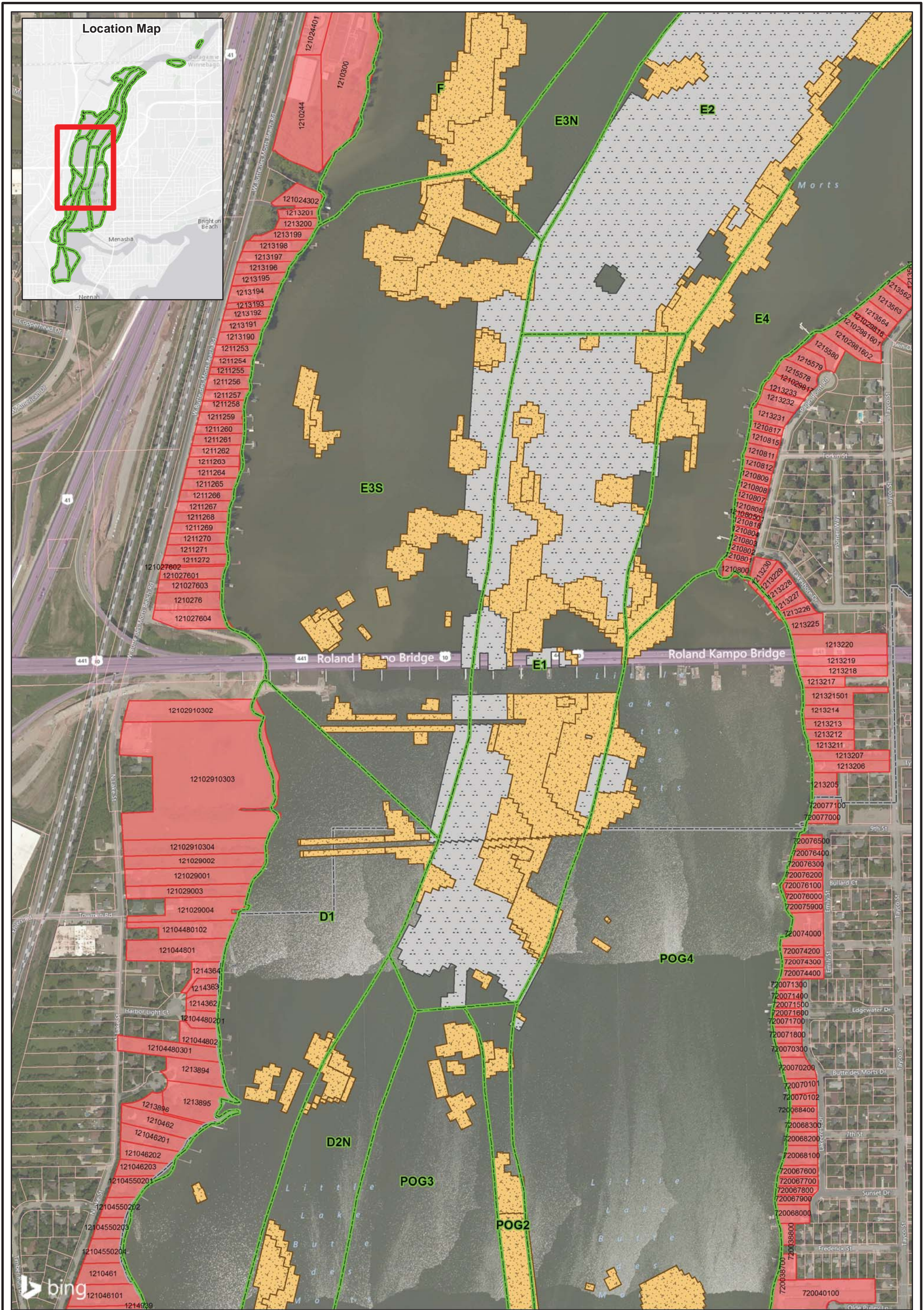
- NOTES:**
1. Coordinate System: Wisconsin SPS, NAD83
 2. Parcels supplied by Winnebago Co GIS

- LEGEND**
- OU1 Sub-areas
 - Cap Placement Limits
 - Sand Placement Limits
 - Municipal Boundary
 - GIS Registry Parcels
 - Parcels

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.



GW PARTNERS		
FIGURE 2		
GIS REGISTRY FOR OU1 PARCEL AREA 1 WINNEBAGO COUNTY		
Date: MAY 2017	Revision Date:	
Drawn By: DAT	Checked By: TMK1	Project: 12G007.17



NOTES:
 1. Coordinate System: Wisconsin SPS, NAD83
 2. Parcels supplied by Winnebago Co GIS

- LEGEND**
- OU1 Sub-areas
 - Cap Placement Limits
 - Sand Placement Limits
 - Municipal Boundary
 - GIS Registry Parcels
 - Parcels

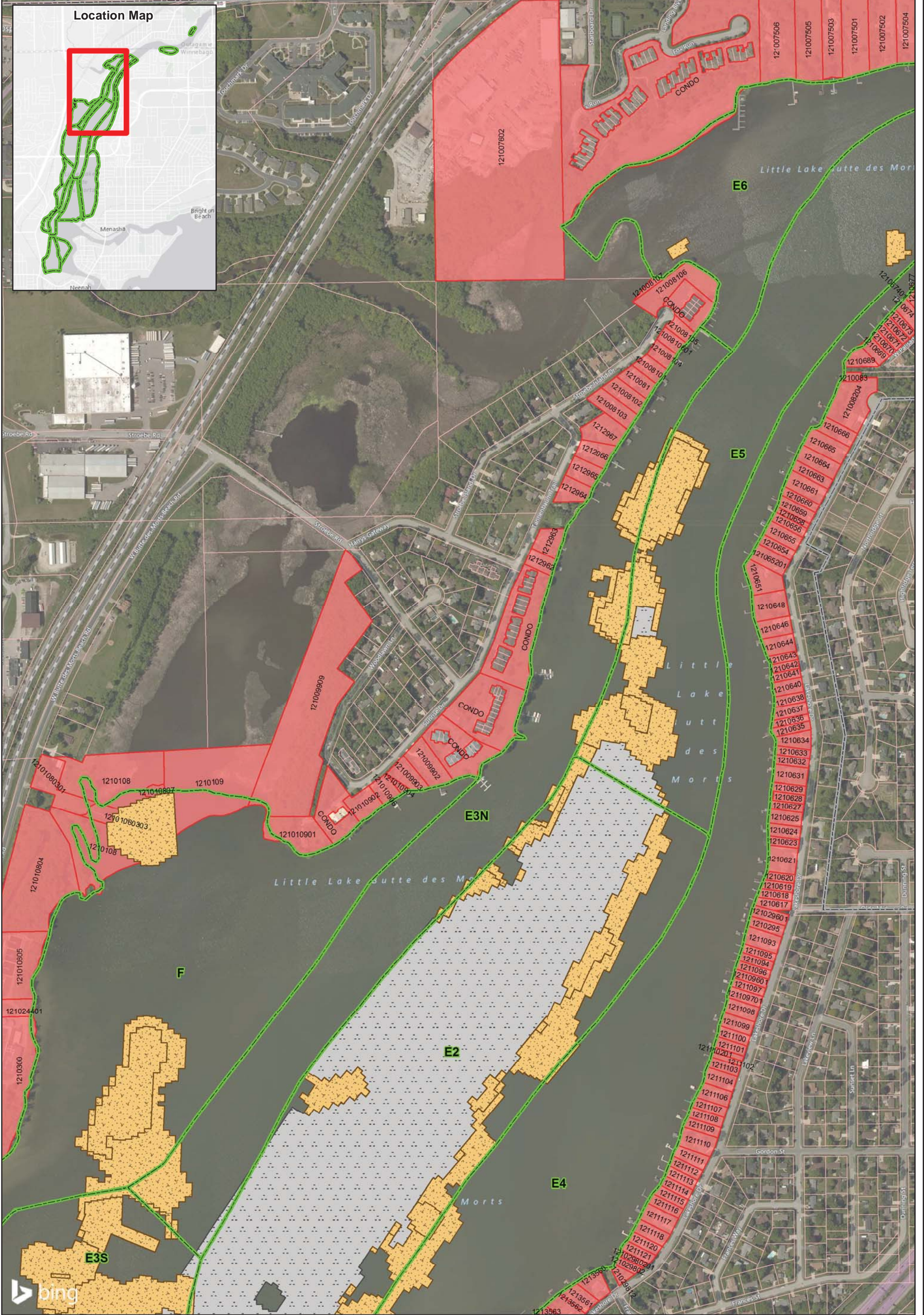
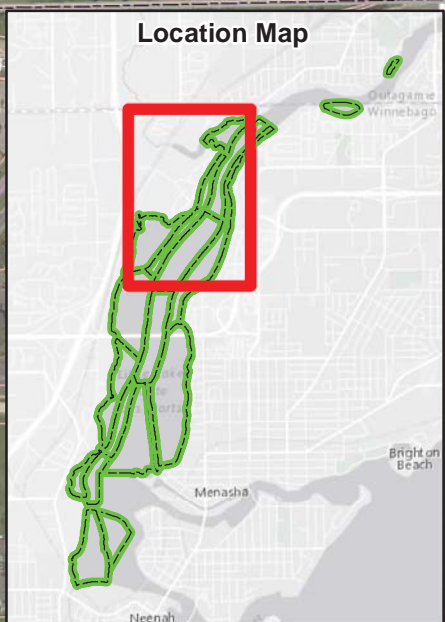
This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

Foth

0 250 500
 Feet

GW PARTNERS		
FIGURE 3		
GIS REGISTRY FOR OU1 PARCEL AREA 2 WINNEBAGO COUNTY		
Date: MAY 2017	Revision Date:	
Drawn By: DAT	Checked By: TMK1	Project: 12G007.17

Location Map



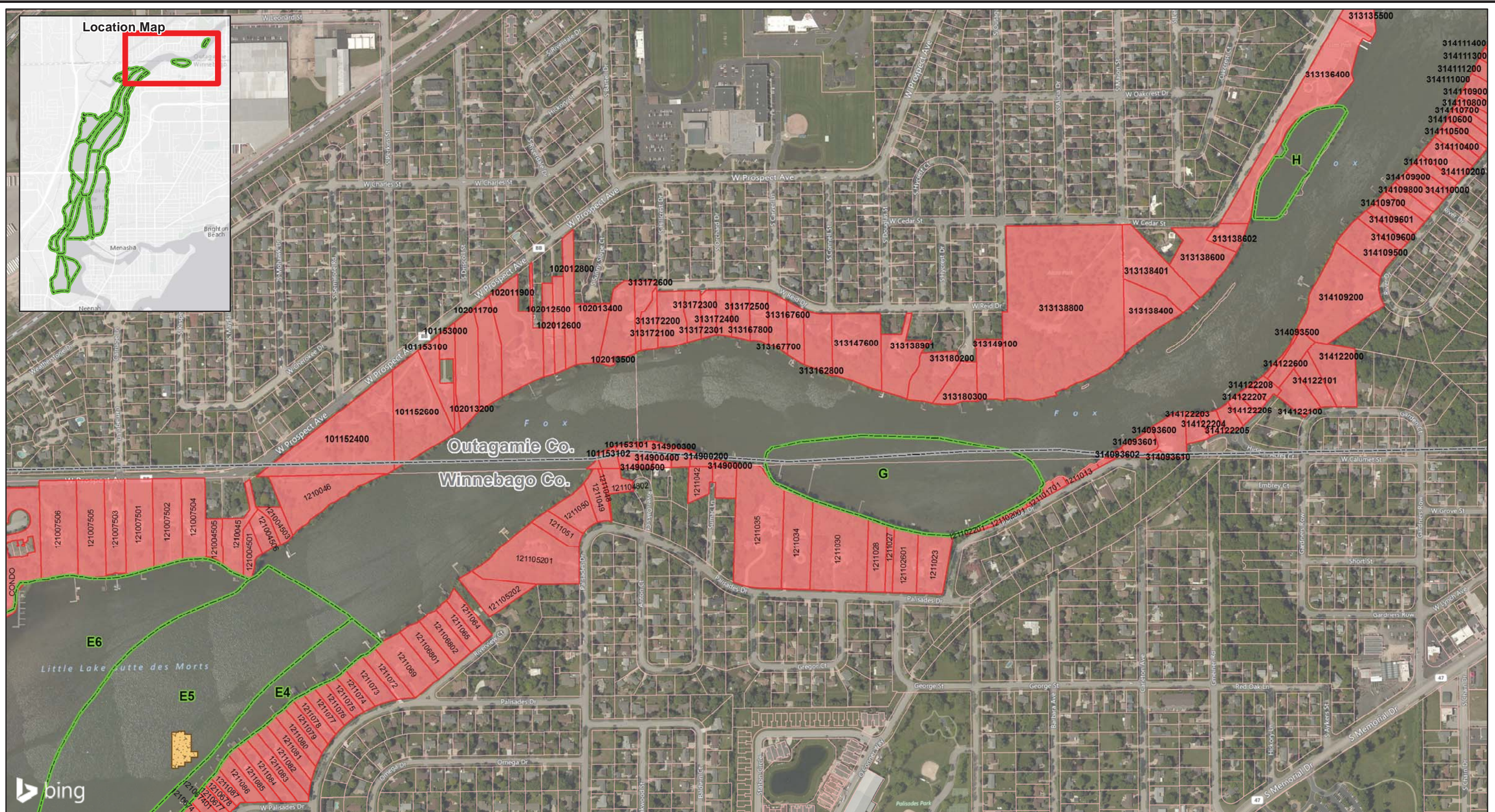
NOTES:
 1. Coordinate System: Wisconsin SPS, NAD83
 2. Parcels supplied by Winnebago Co GIS

LEGEND

- OU1 Sub-areas
- Cap Placement Limits
- Sand Placement Limits
- Municipal Boundary
- GIS Registry Parcels
- Parcels

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.

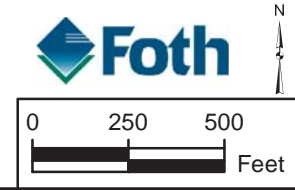
GW PARTNERS		
FIGURE 4		
GIS REGISTRY FOR OU1 PARCEL AREA 3 WINNEBAGO COUNTY		
Date: MAY 2017	Revision Date:	
Drawn By: DAT	Checked By: TMK1	Project: 12G007.17



NOTES:
 1. Coordinate System: Wisconsin SPS, NAD83
 2. Parcels supplied by Winnebago Co GIS

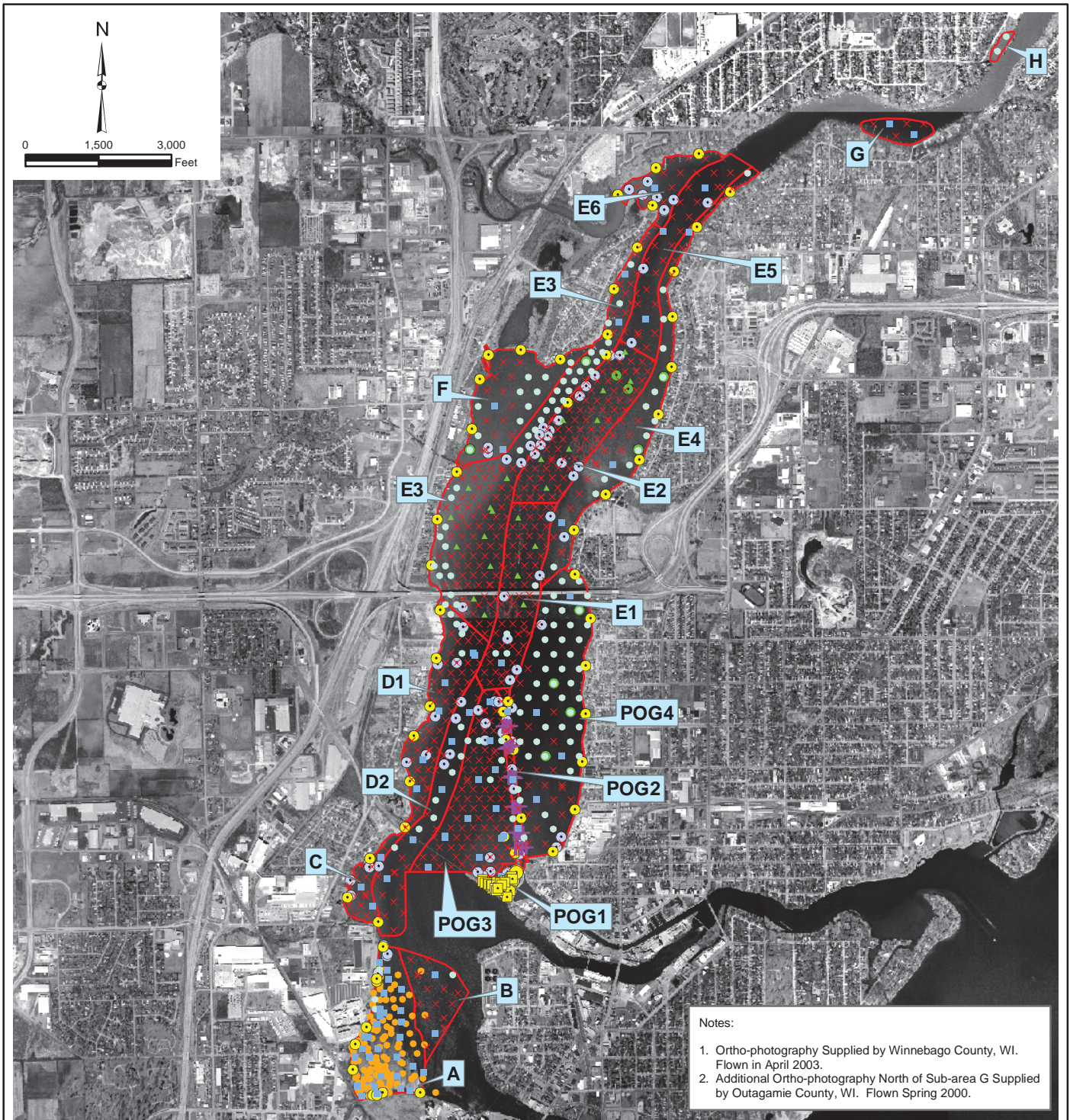
- LEGEND**
- Counties
 - OU1 Sub-areas
 - Cap Placement Limits
 - Sand Placement Limits
 - GIS Registry Parcels
 - Parcels

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.



GW PARTNERS		
FIGURE 5		
GIS REGISTRY FOR OU1		
PARCEL AREA 4		
OUTAGAMIE AND WINNEBAGO COUNTIES		
Date: MAY 2017	Revision Date:	
Drawn By: DAT	Checked By: TMK1	Project: 12G007.17

B.4.b.1. Pre-Remedial Sediment Sampling



Notes:

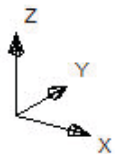
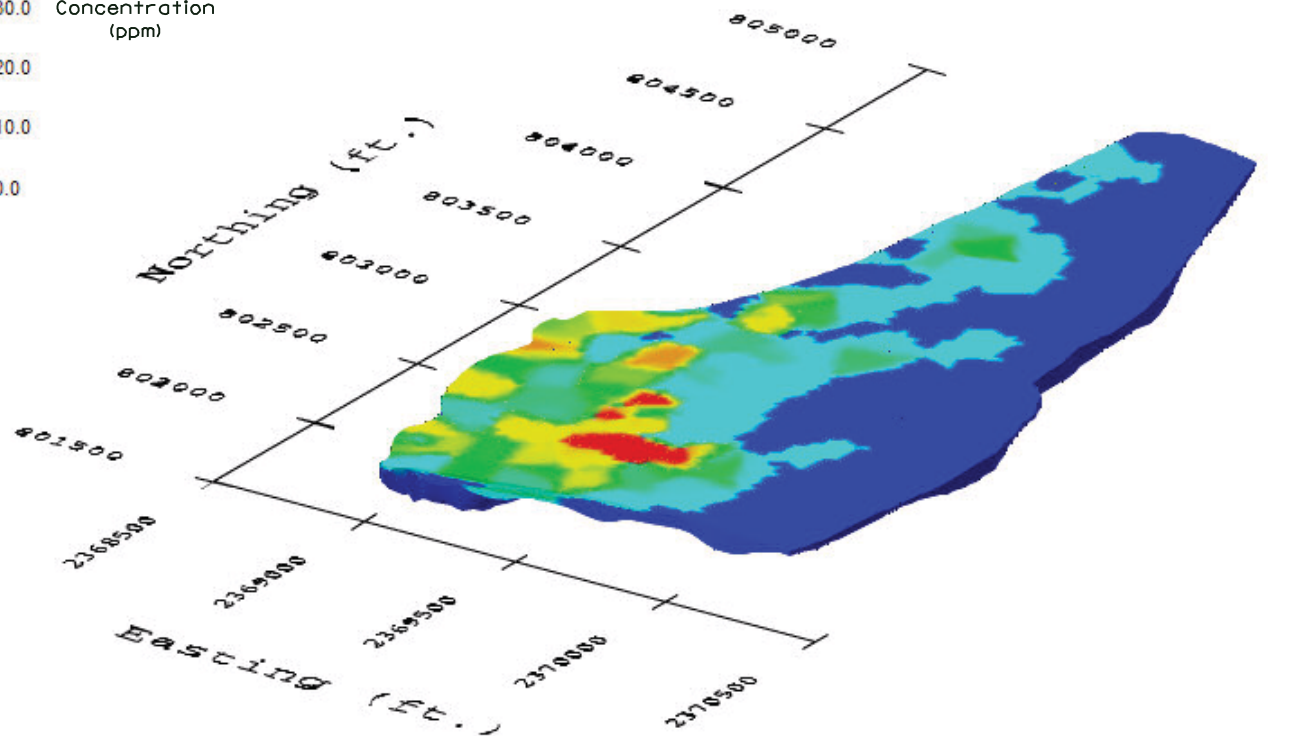
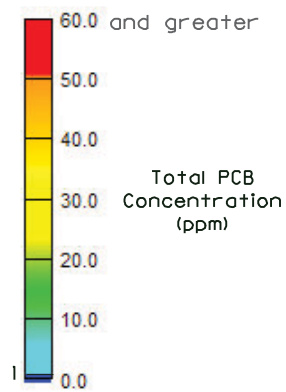
1. Ortho-photography Supplied by Winnebago County, WI. Flown in April 2003.
2. Additional Ortho-photography North of Sub-area G Supplied by Outagamie County, WI. Flown Spring 2000.

LEGEND

✗	2003 PCB Delineation Core Location	▭	Revised Sub-area Delineation (October, 2004)
▣	2003 PCB Delineation Core Location Including Physical Property Parameters	A	Pre-design Sub-area Designation
▲	2003 PCB Delineation Core Location Including Physical Property and Capping Parameters		
●	Pre-2003 Historical Sample Location		
■	Pre-2003 Historical Probing Location		
○	2003 Sample not Collected / No Sample Recovered		
⊙	2004 Phase 2 Sediment Core Sampling Location		
⦿	2004 Phase 2 Sediment Probing Location		
●	2004 Surficial Sample Collection Location		
+	2004 Transect Probing Location		

Figure 6
Pre-Design Sampling, Revised Sub-area Designations and Sample Locations
Lower Fox River OU-1





NOTES:

1. SEDIMENT THICKNESS AND PCB CONCENTRATIONS DERIVED USING GMS AND SEDIMENT CORE SAMPLE DATA FROM 1992 THRU 2004.
2. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE).
3. VERTICAL SCALE IS EXAGGERATED 100 TIMES.



GLATFELTER		
FIGURE 8A		
LOWER FOX RIVER - SUB-AREA A OBLIQUE VIEW OF GMS INTERPOLATED PCB CONCENTRATIONS		
Prepared By: Foth & Van Dyke	Date: JANUARY, 2005	
Drawn By: JRB2	Checked By: DMR	Scope: 02G005

PCB (ppm)

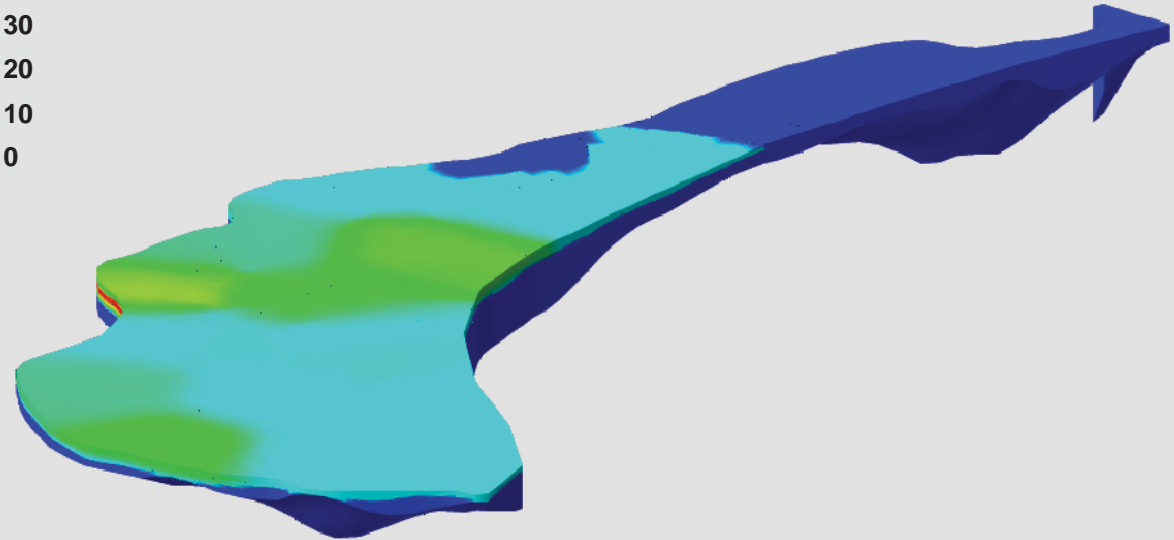
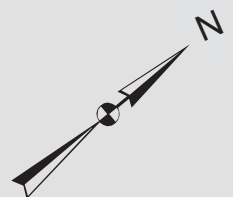
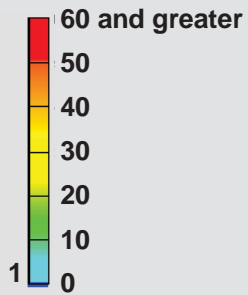


Figure 8B
Lower Fox River - Sub-area C
Oblique View of GMS Interpolated PCB Concentrations



PCB (ppm)

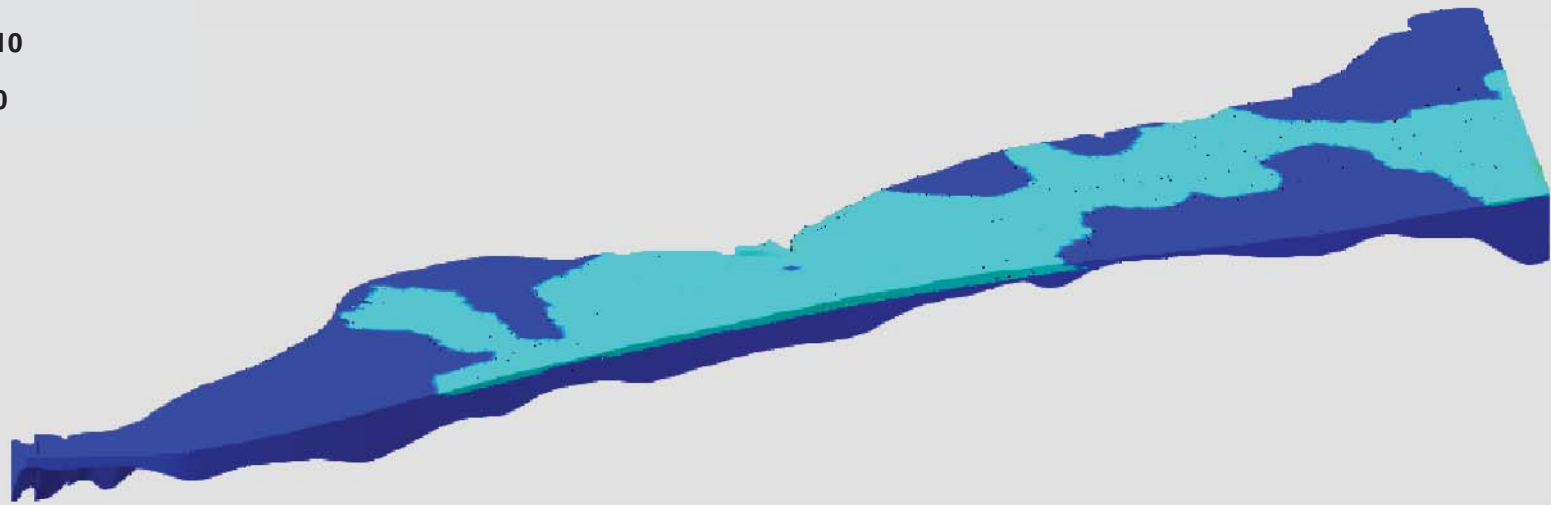
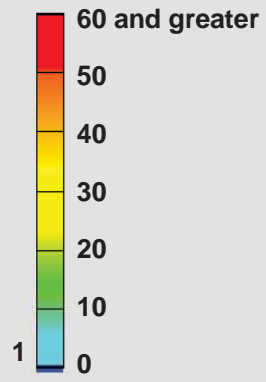


Figure 8C
Lower Fox River - Sub-area D1
Oblique View of GMS Interpolated PCB Concentrations



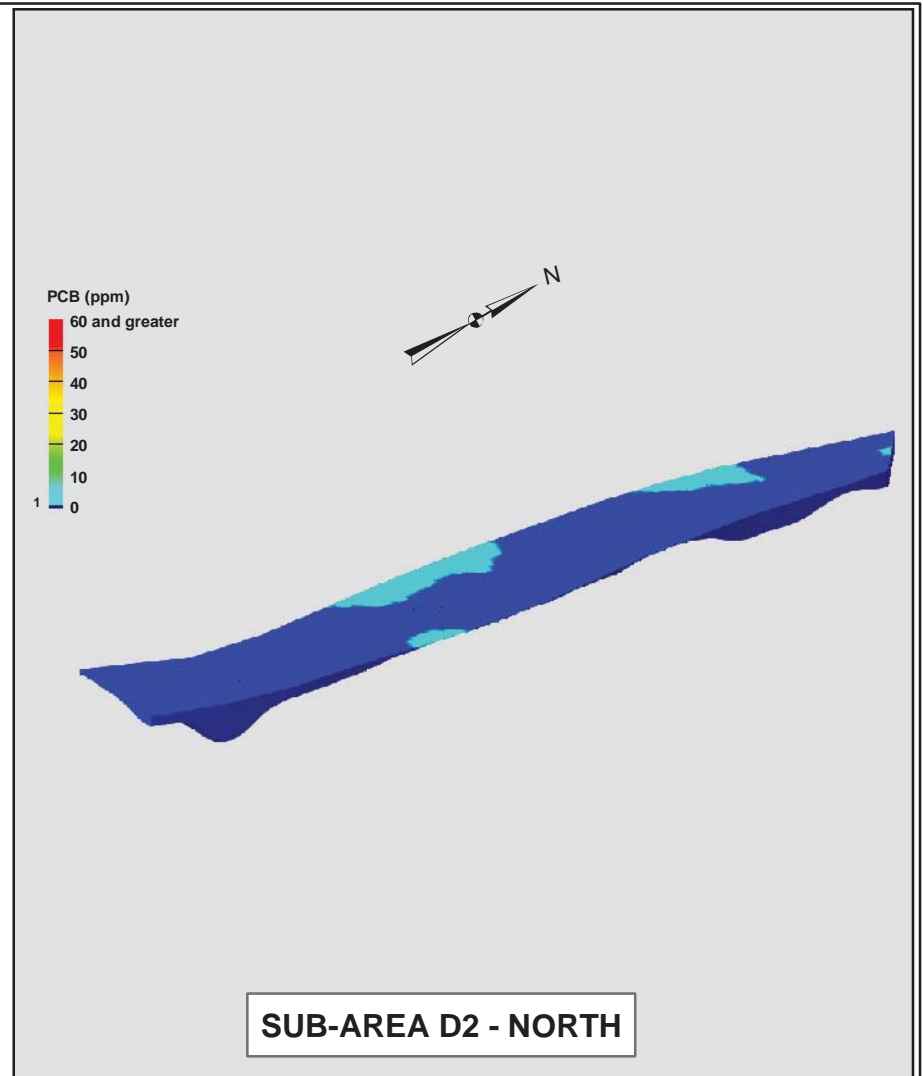
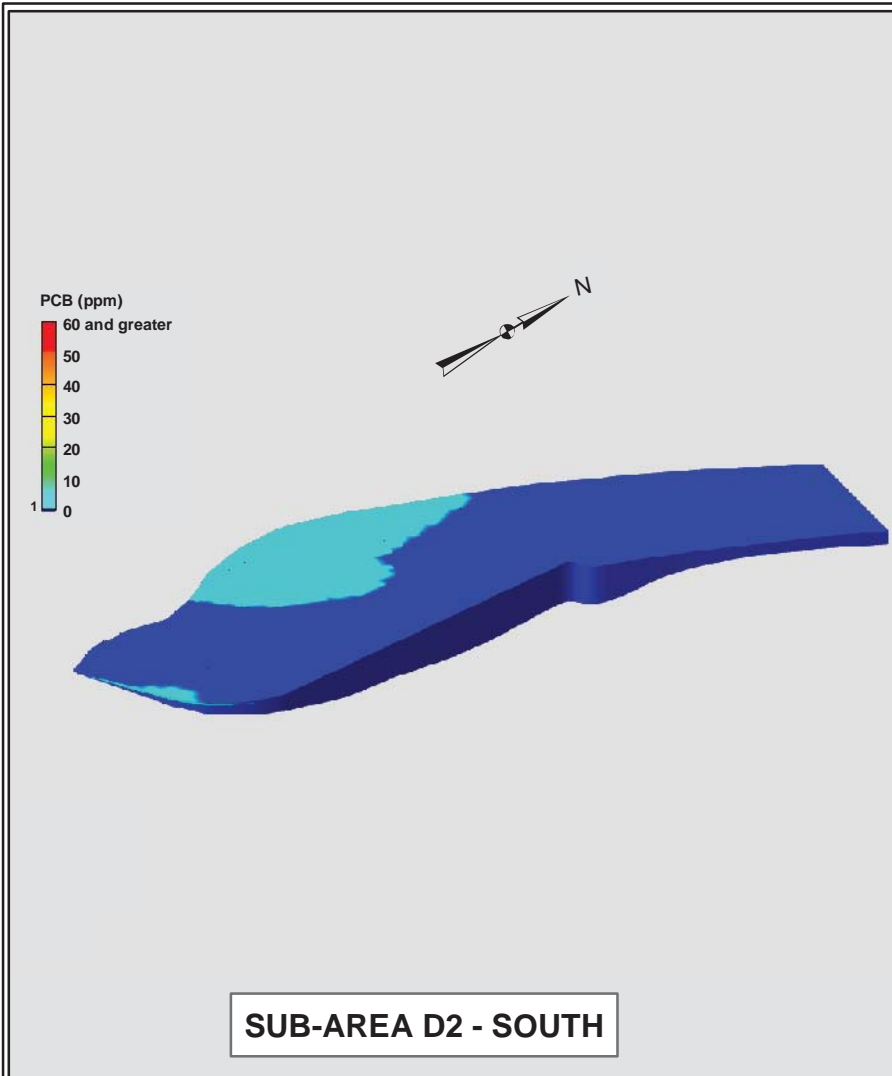


Figure 8D
Lower Fox River - Sub-area D2
Oblique View of GMS Interpolated PCB Concentrations



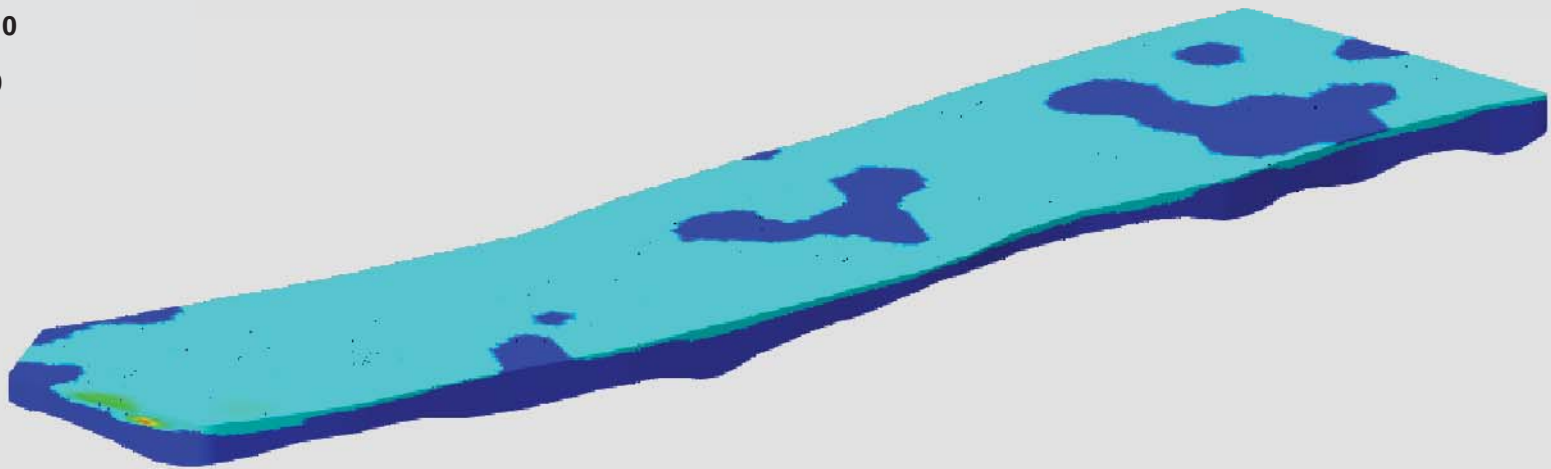
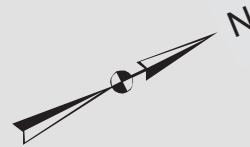
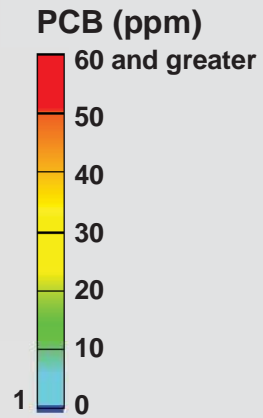


Figure 8E
Lower Fox River - Sub-area E1
Oblique View of GMS Interpolated PCB Concentrations



PCB (ppm)

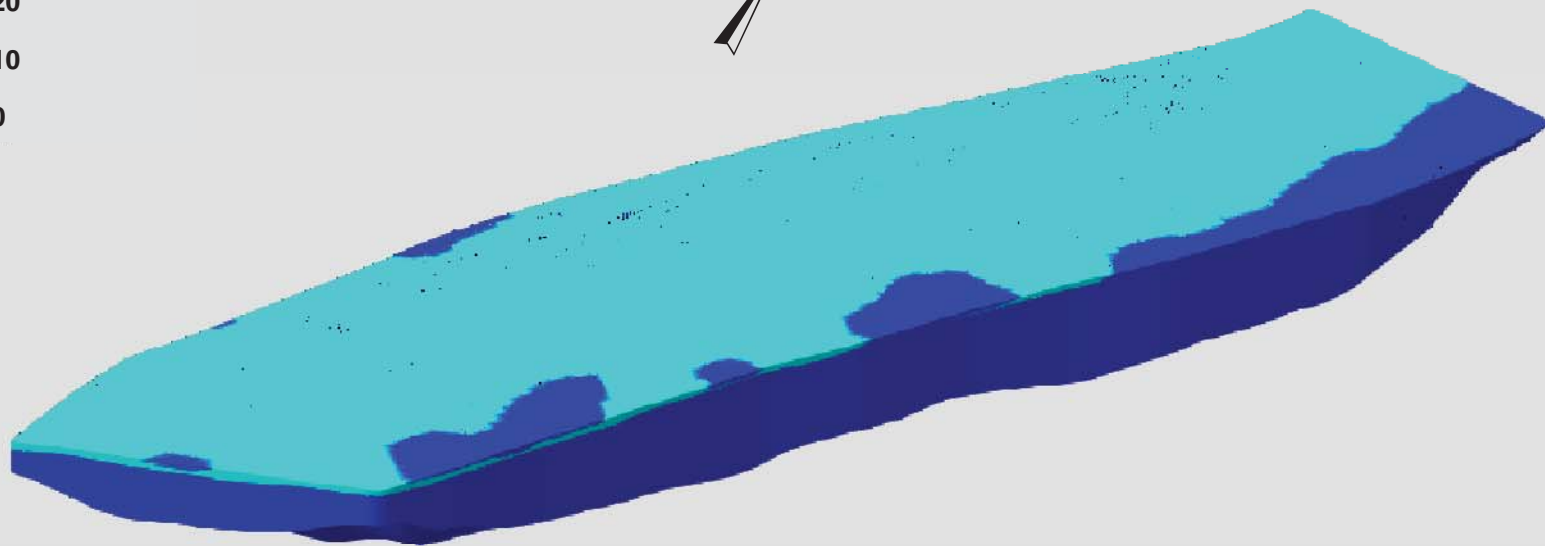
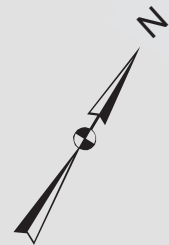
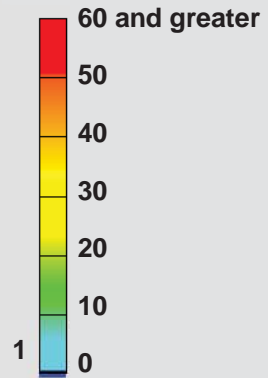


Figure 8F
Lower Fox River - Sub-area E2
Oblique View of GMS Interpolated PCB Concentrations



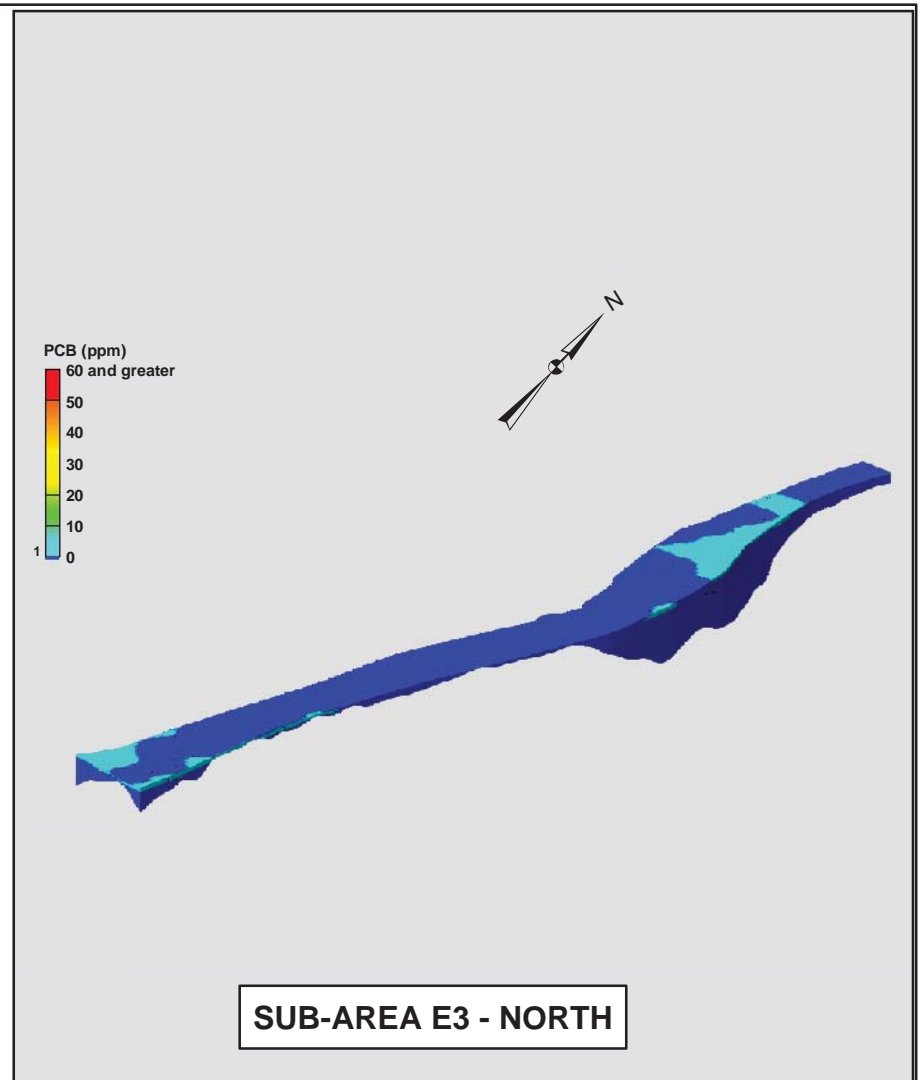
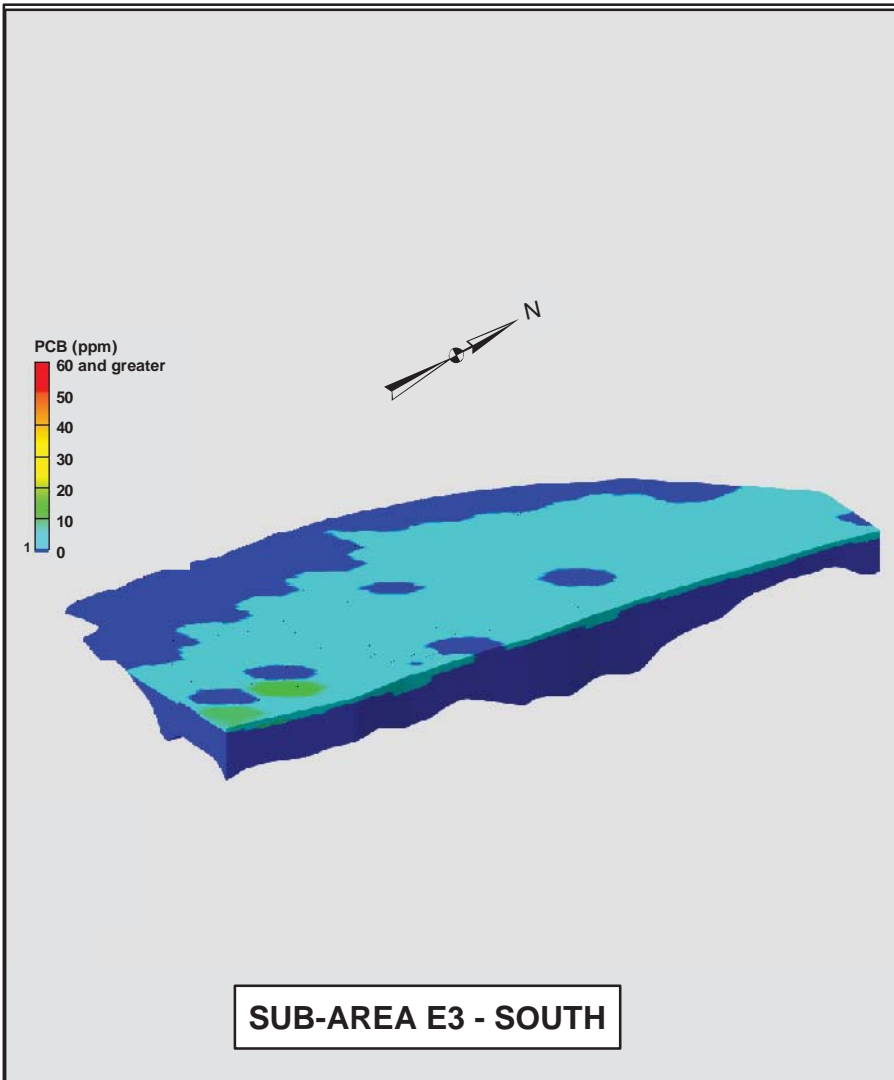


Figure 8G
Lower Fox River - Sub-area E3
Oblique View of GMS Interpolated PCB Concentrations



PCB (ppm)

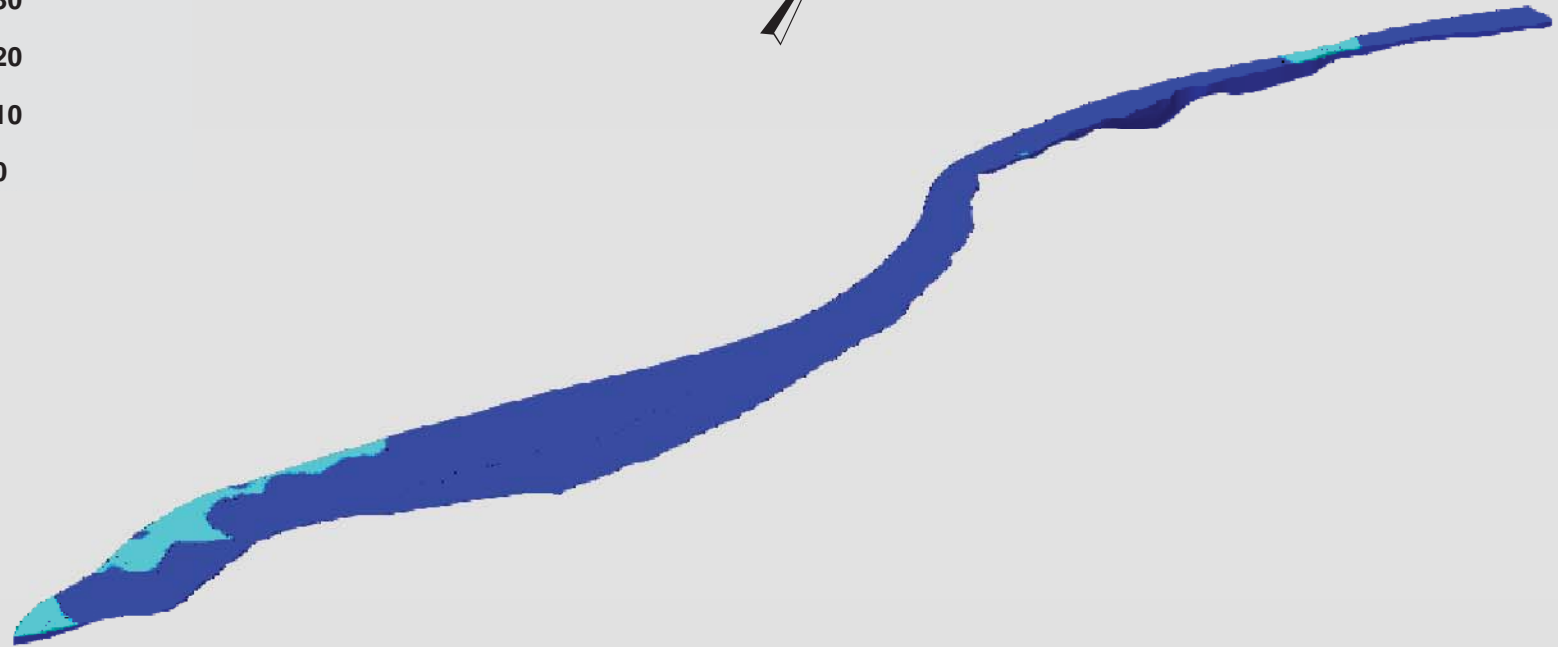
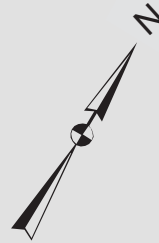
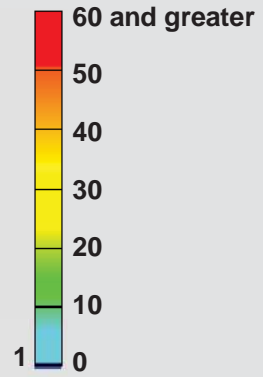


Figure 8H
Lower Fox River - Sub-area E4
Oblique View of GMS Interpolated PCB Concentrations



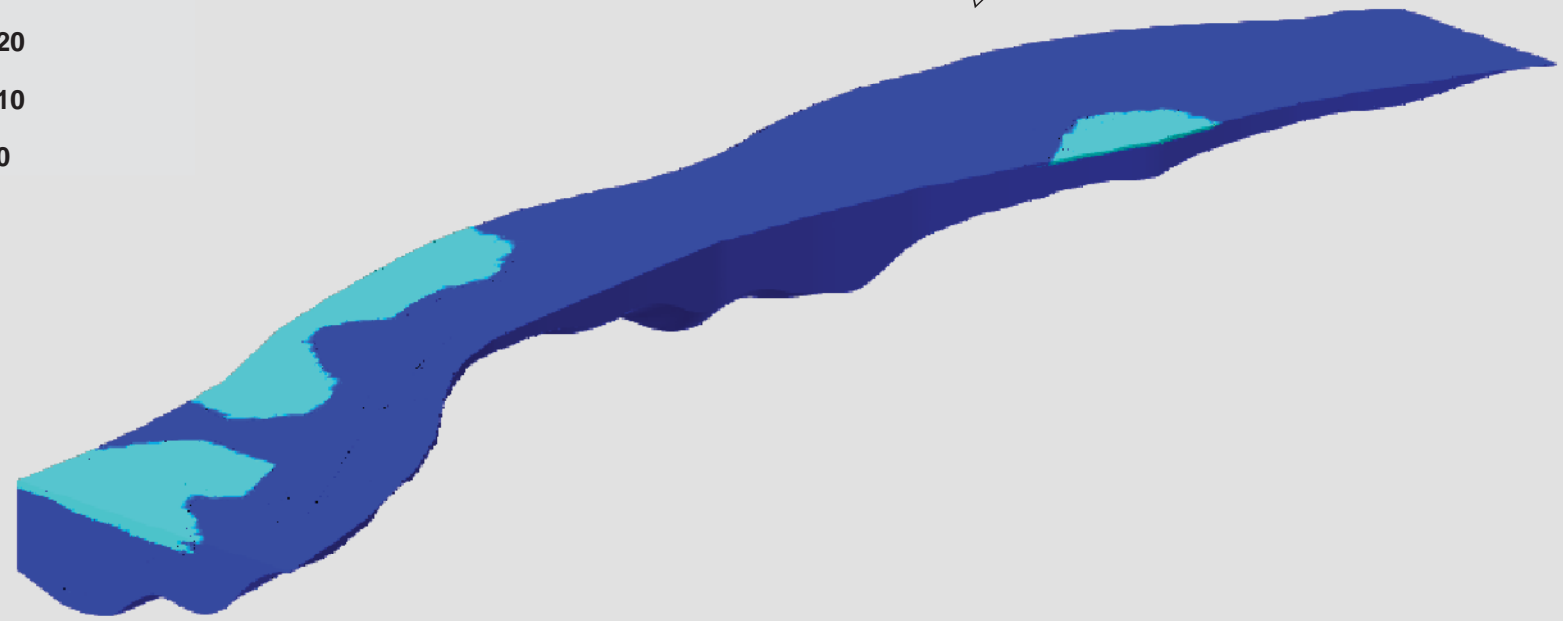
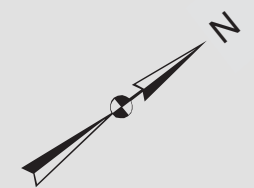
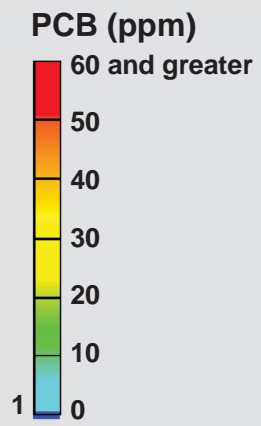


Figure 81
Lower Fox River - Sub-area E5
Oblique View of GMS Interpolated PCB Concentrations



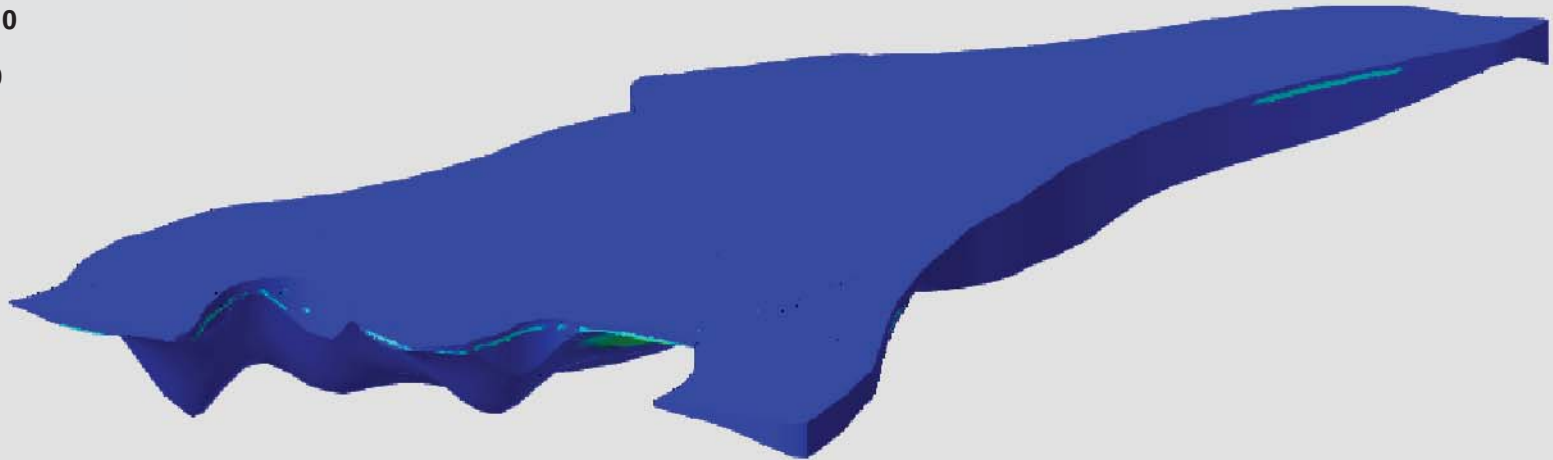
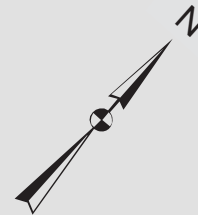
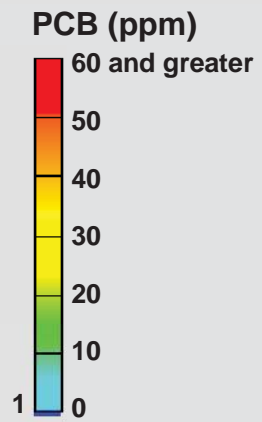


Figure 8J
Lower Fox River - Sub-area E6
Oblique View of GMS Interpolated PCB Concentrations



PCB (ppm)

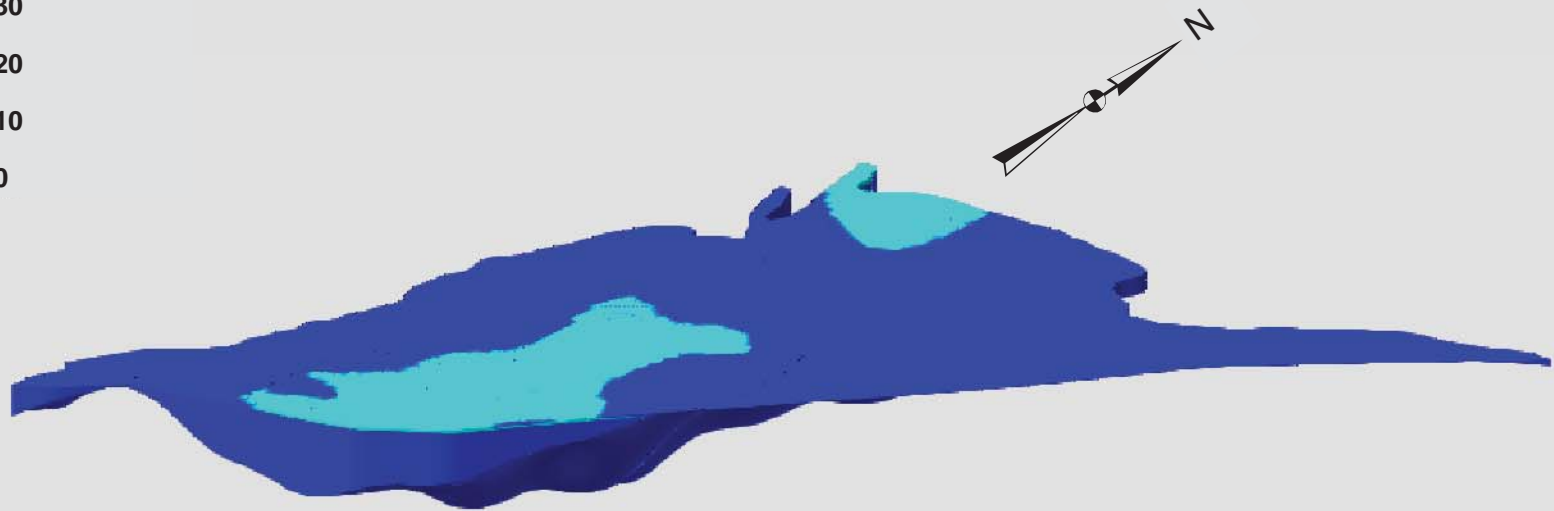
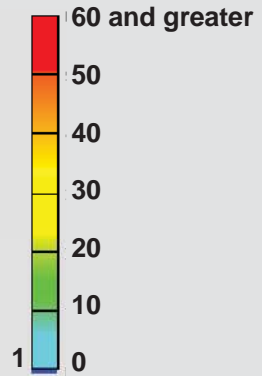


Figure 8K
Lower Fox River - Sub-area F
Oblique View of GMS Interpolated PCB Concentrations



PCB (ppm)

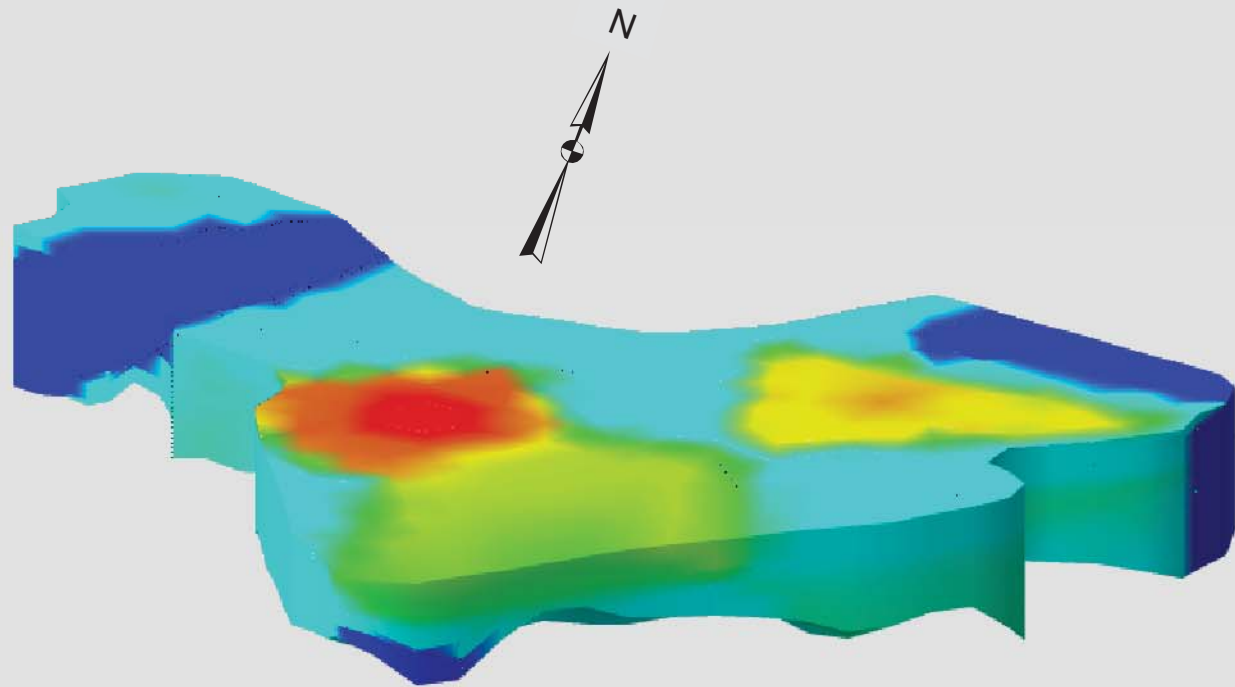
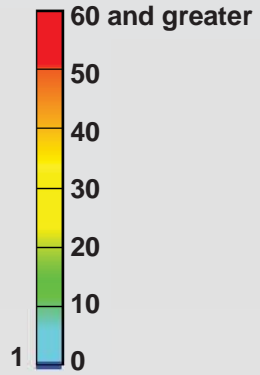


Figure 8L
Lower Fox River - Sub-area POG1
Oblique View of GMS Interpolated PCB Concentrations



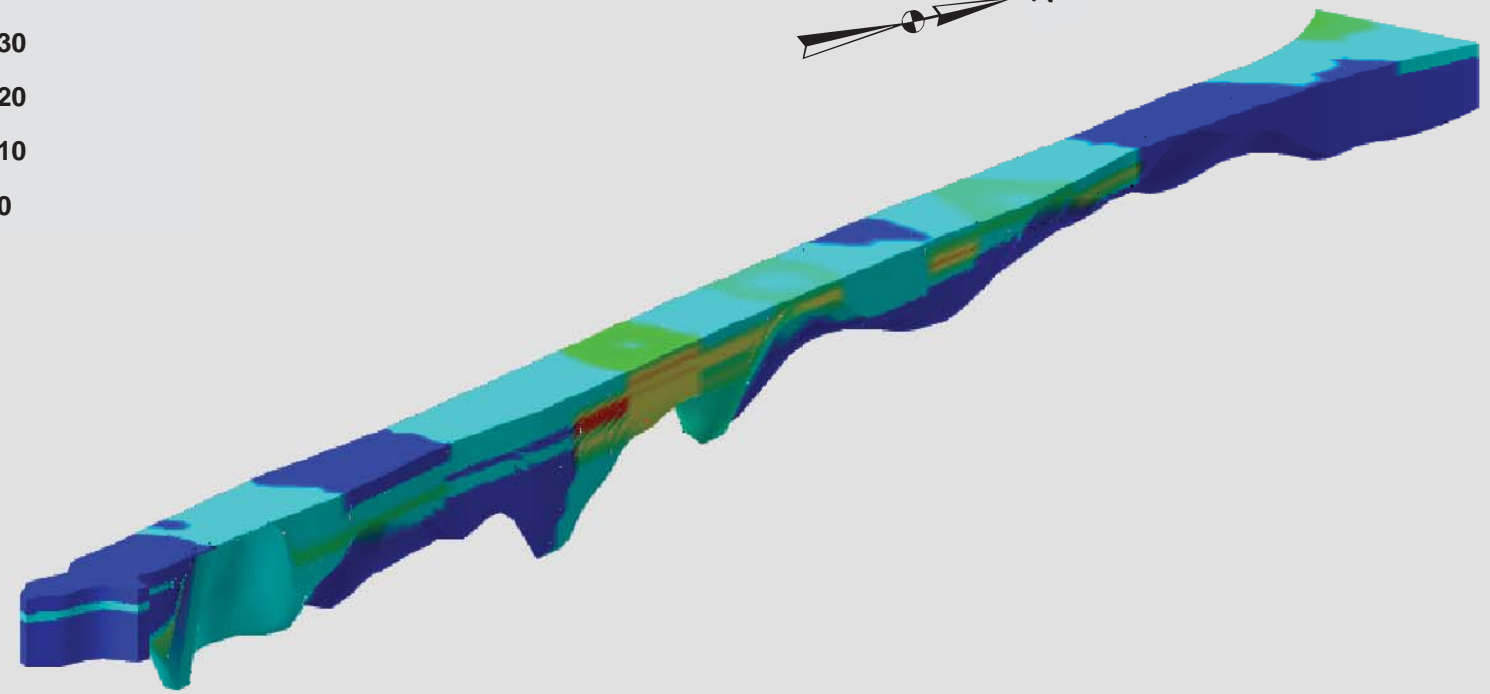
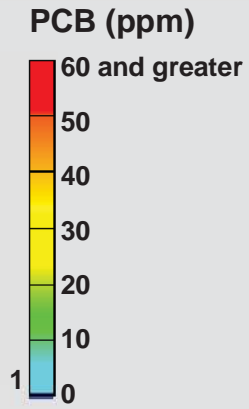


Figure 8M
Lower Fox River - Sub-area POG2
Oblique View of GMS Interpolated PCB Concentrations



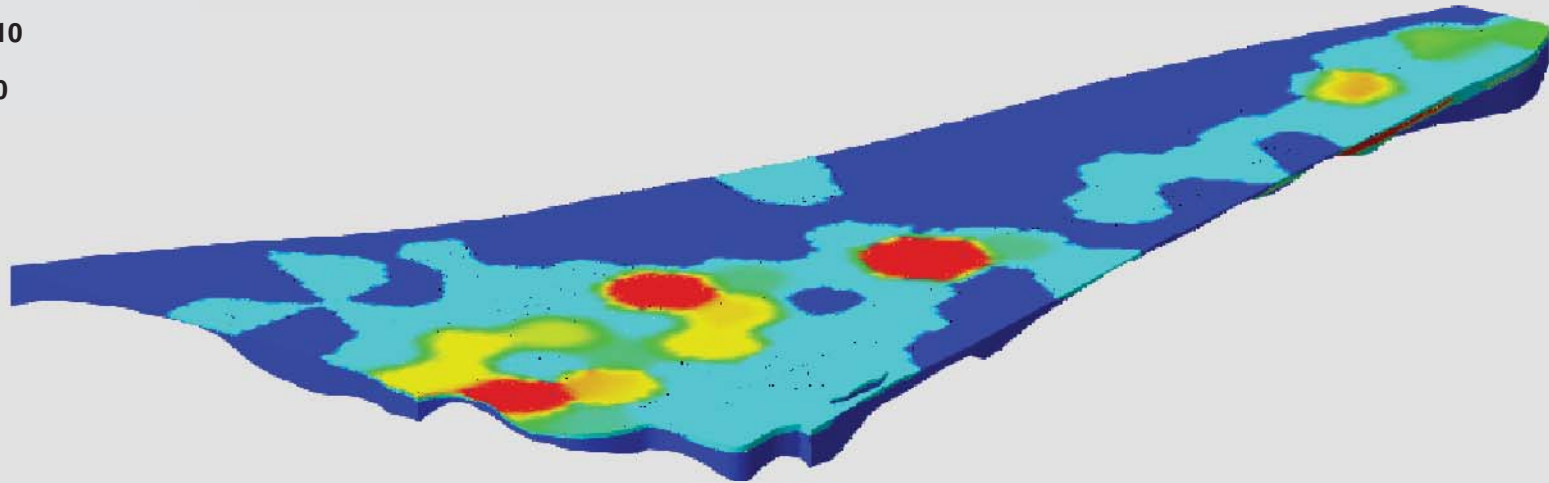
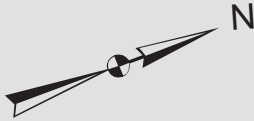
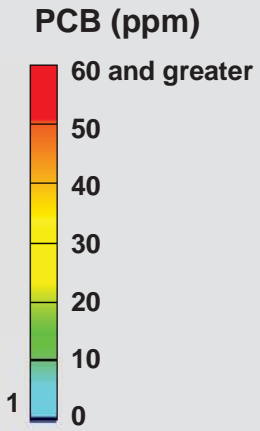


Figure 8N
Lower Fox River - Sub-area POG3
Oblique View of GMS Interpolated PCB Concentrations



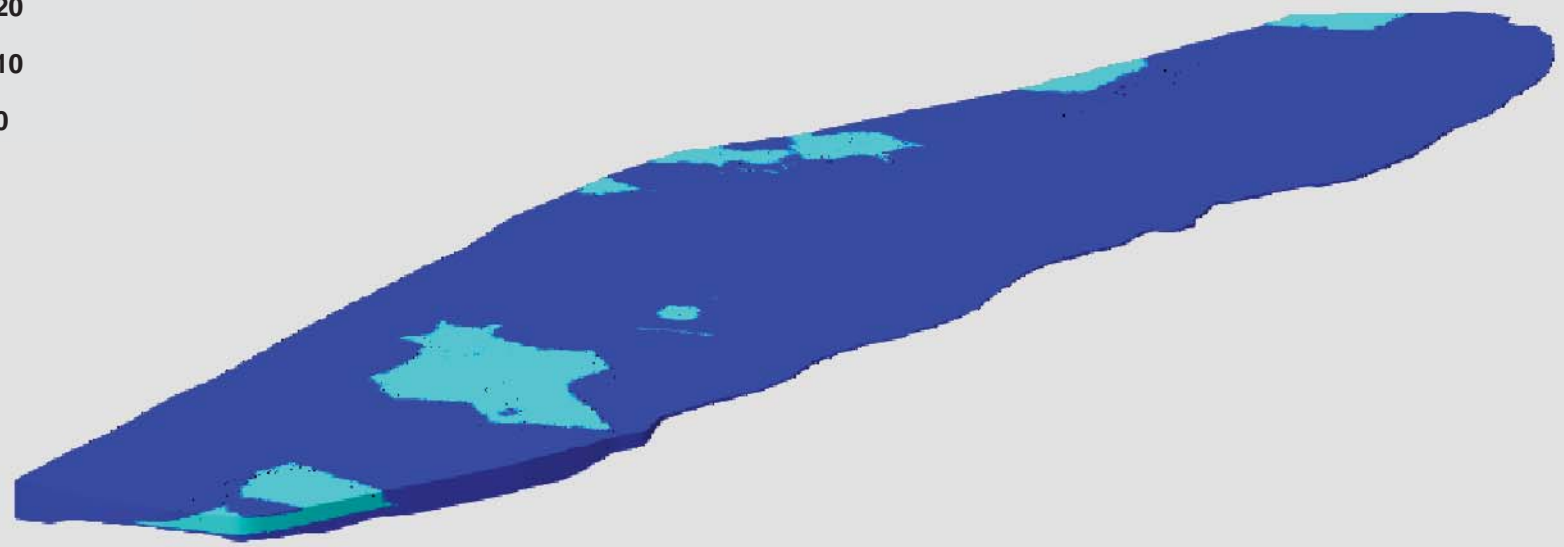
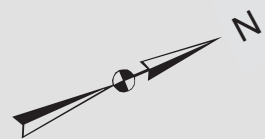
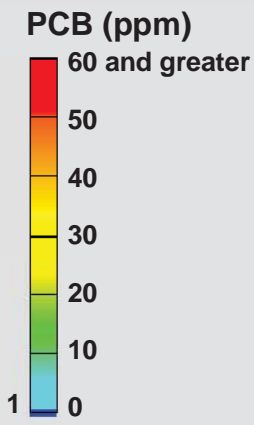
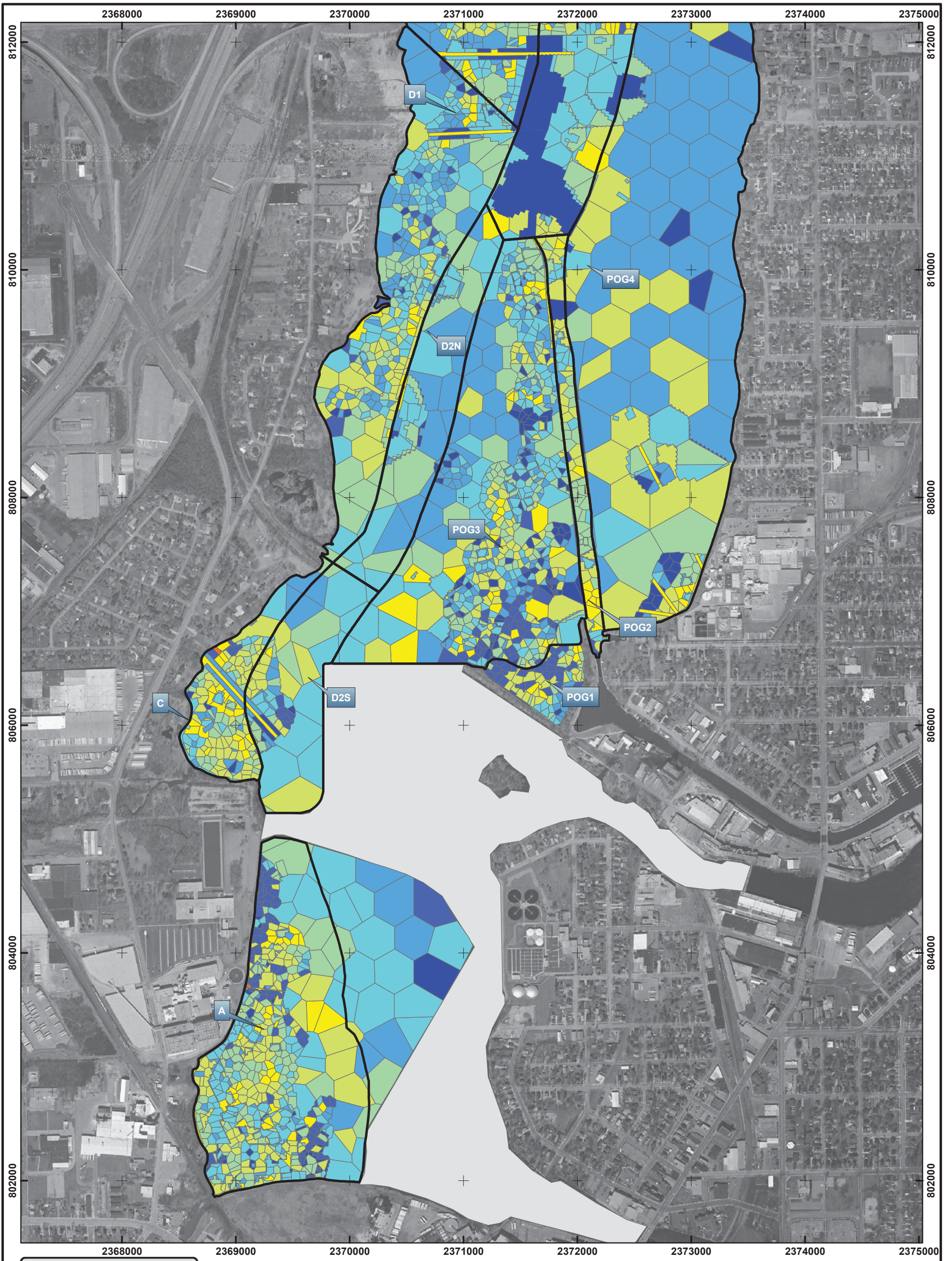


Figure 80
Lower Fox River - Sub-area POG4
Oblique View of GMS Interpolated PCB Concentrations



B.4.b.2. Post-Remedial Sediment Sampling



Legend

Sub-area/DMU Boundaries

Surficial Concentration used for SWAC (ppm)

- 0.00
- 0.0009 - 0.0167
- 0.0168
- 0.0169 - 0.1000
- 0.1001 - 0.2500
- 0.2501 - 0.5000
- 0.5001 - 1.0000
- 1.0001 - 5.0000
- 5.0001 - 10.0000
- 10.0001 - 15.0000

- Notes:**
1. Orthophoto provided by Winnebago County, WI.
 2. The horizontal control is referenced to the NAD83 Wisconsin State Plane Coordinate System (Wisconsin Southern Zone).
 3. Sample locations used in SWAC are the centroid of the depicted Thiessen polygon boundaries



GW PARTNERS

FIGURE 1-26
 LOWER FOX RIVER OU1
 SWAC CALCULATION SURFICIAL
 PCB CONCENTRATIONS (SOUTH)

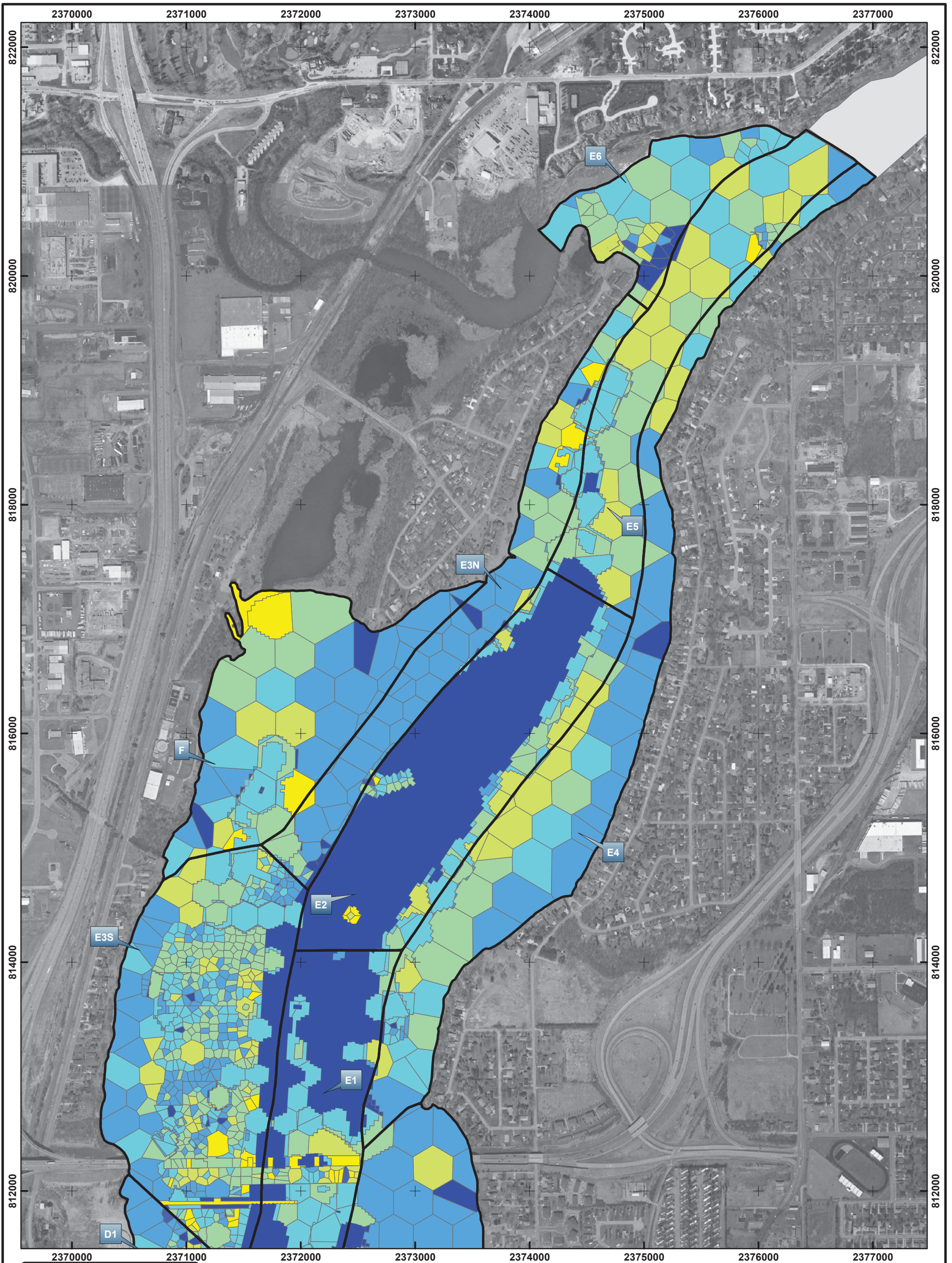
Scale: 0 400 800 Feet

Date: AUGUST, 2010

Drawn By: DAT

Checked By: SGL

Scope: 08G007



Legend

Sub-area/DMU Boundaries

Surficial Concentration used for SWAC (ppm)

- 0.00
- 0.0009 - 0.0167
- 0.0168
- 0.0169 - 0.1000
- 0.1001 - 0.2500
- 0.2501 - 0.5000
- 0.5001 - 1.0000
- 1.0001 - 5.0000
- 5.0001 - 10.0000
- 10.0001 - 15.0000

- Notes:**
1. Orthophoto provided by Winnebago County, WI.
 2. The horizontal control is referenced to the NAD83 Wisconsin State Plane Coordinate System (Wisconsin Southern Zone).
 3. Sample locations used in SWAC are the centroid of the depicted Thiessen polygon boundaries



GW PARTNERS

FIGURE 1-27
 LOWER FOX RIVER OU1
 SWAC CALCULATION SURFICIAL
 PCB CONCENTRATIONS (NORTH)

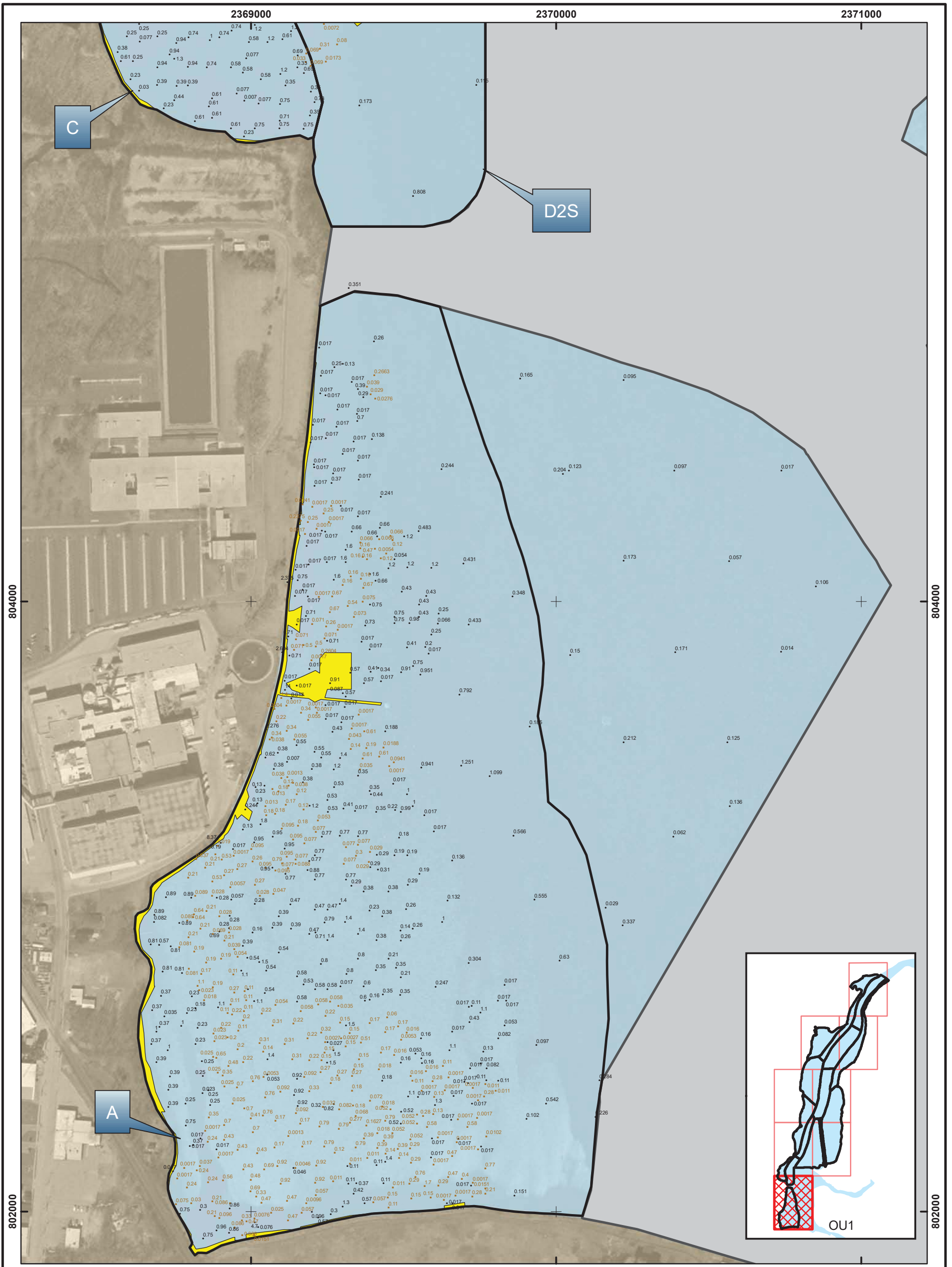
Scale: 0 400 800 Feet

Date: AUGUST, 2010

Drawn By: DAT

Checked By: SGL

Scope: 08G007



Legend

- Sample Core Location - Sand Covered
- Sample Core Location
- Sub-area/DMU Boundaries
- SWAC Strata Area for Engineered Cap (0.0065 ppm)
- SWAC Strata Area for Null (0 ppm)
- SWAC Strata Area for Pipeline/Artifact/Shoreline w/o Samples (3.68 ppm)

- Notes:**
1. Orthophoto provided by Winnebago County, WI.
 2. The horizontal control is referenced to the NAD83 Wisconsin State Plane Coordinate System (Wisconsin Southern Zone).
 3. Values represent surface concentrations used in SWAC calculation (ppm).
 4. SWAC strata area for pipeline/artifact/shoreline without samples is estimated from the GMS-SED model with an average concentration of 3.68 ppm.



GW PARTNERS

FIGURE 1-28A
LOWER FOX RIVER OU1
SWAC CALCULATION SURFICIAL CONCENTRATION
- NUMERICAL PCB VALUE AT LOCATIONS

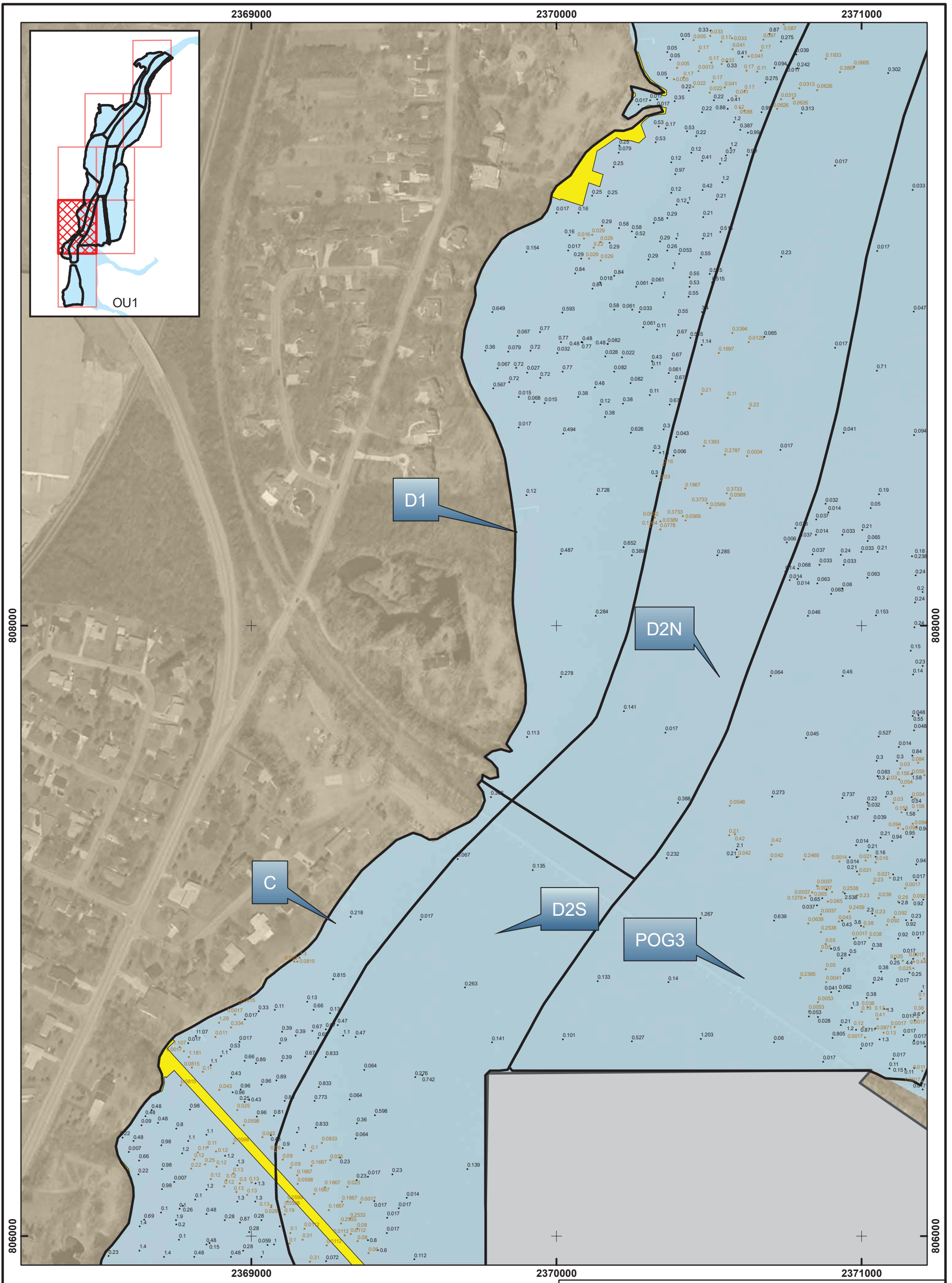
Scale: 0 150 300 Feet

Date: AUGUST, 2010

Drawn By: DAT

Checked By: SGL

Scope: 08G007



Legend

- Sample Core Location - Sand Covered
- Sample Core Location
- Sub-area/DMU Boundaries
- SWAC Strata Area for Engineered Cap (0.0065 ppm)
- SWAC Strata Area for Null (0 ppm)
- SWAC Strata Area for Pipeline/Artifact/Shoreline w/o Samples (3.68 ppm)

Notes:

1. Orthophoto provided by Winnebago County, WI.
2. The horizontal control is referenced to the NAD83 Wisconsin State Plane Coordinate System (Wisconsin Southern Zone).
3. Values represent surface concentrations used in SWAC calculation (ppm).
4. SWAC strata area for pipeline/artifact/shoreline without samples is estimated from the GMS-SED model with an average concentration of 3.68 ppm.



GW PARTNERS

FIGURE 1-28B
LOWER FOX RIVER OU1
SWAC CALCULATION SURFICIAL CONCENTRATION
- NUMERICAL PCB VALUE AT LOCATIONS

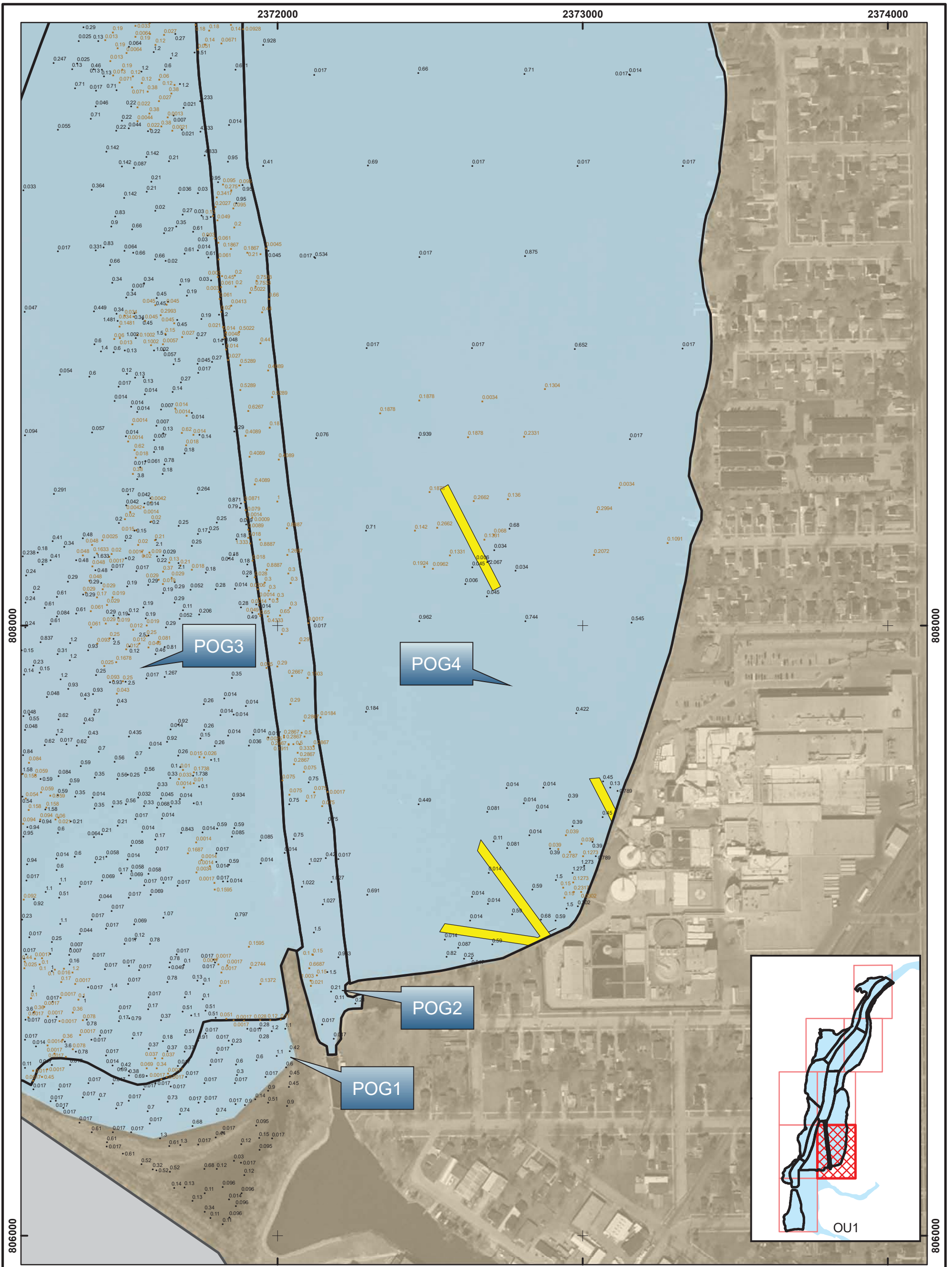
Scale: 0 150 300 Feet

Date: AUGUST, 2010

Drawn By: DAT

Checked By: SGL

Scope: 08G007



Legend

- Sample Core Location - Sand Covered
- Sample Core Location
- Sub-area/DMU Boundaries
- SWAC Strata Area for Engineered Cap (0.0065 ppm)
- SWAC Strata Area for Null (0 ppm)
- SWAC Strata Area for Pipeline/Artifact/Shoreline w/o Samples (3.68 ppm)

- Notes:**
1. Orthophoto provided by Winnebago County, WI.
 2. The horizontal control is referenced to the NAD83 Wisconsin State Plane Coordinate System (Wisconsin Southern Zone).
 3. Values represent surface concentrations used in SWAC calculation (ppm).
 4. SWAC strata area for pipeline/artifact/shoreline without samples is estimated from the GMS-SED model with an average concentration of 3.68 ppm.

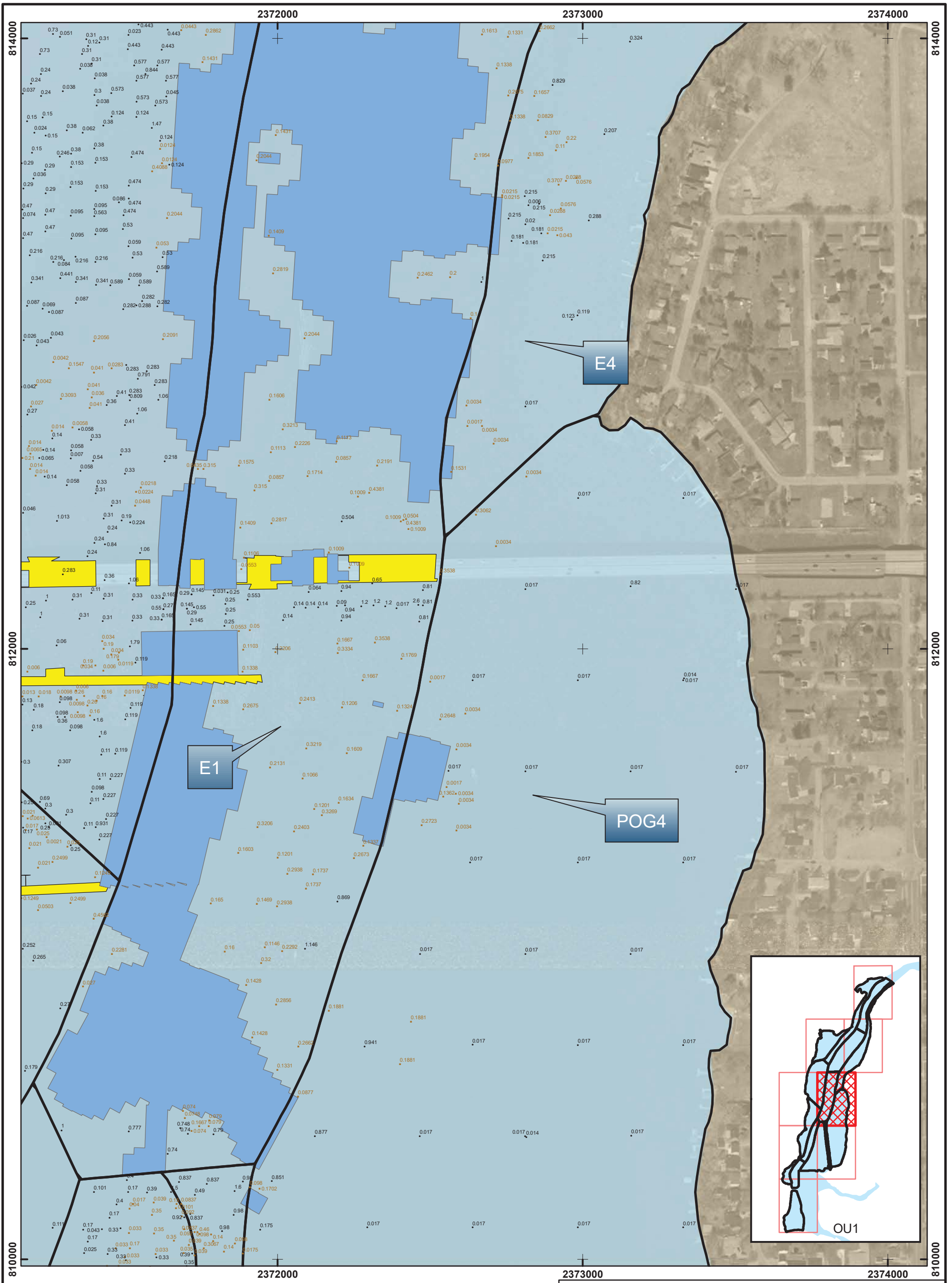


GW PARTNERS

FIGURE 1-28C
LOWER FOX RIVER OU1
SWAC CALCULATION SURFICIAL CONCENTRATION
- NUMERICAL PCB VALUE AT LOCATIONS

Scale: 0 150 300 Feet Date: AUGUST, 2010

Drawn By: DAT Checked By: SGL Scope: 08G007



Legend

- Sample Core Location - Sand Covered
- Sample Core Location
- Sub-area/DMU Boundaries
- SWAC Strata Area for Engineered Cap (0.0065 ppm)
- SWAC Strata Area for Null (0 ppm)
- SWAC Strata Area for Pipeline/Artifact/Shoreline w/o Samples (3.68 ppm)

- Notes:**
1. Orthophoto provided by Winnebago County, WI.
 2. The horizontal control is referenced to the NAD83 Wisconsin State Plane Coordinate System (Wisconsin Southern Zone).
 3. Values represent surface concentrations used in SWAC calculation (ppm).
 4. SWAC strata area for pipeline/artifact/shoreline without samples is estimated from the GMS-SED model with an average concentration of 3.68 ppm.



GW PARTNERS

FIGURE 1-28D
LOWER FOX RIVER OU1
SWAC CALCULATION SURFICIAL CONCENTRATION
- NUMERICAL PCB VALUE AT LOCATIONS

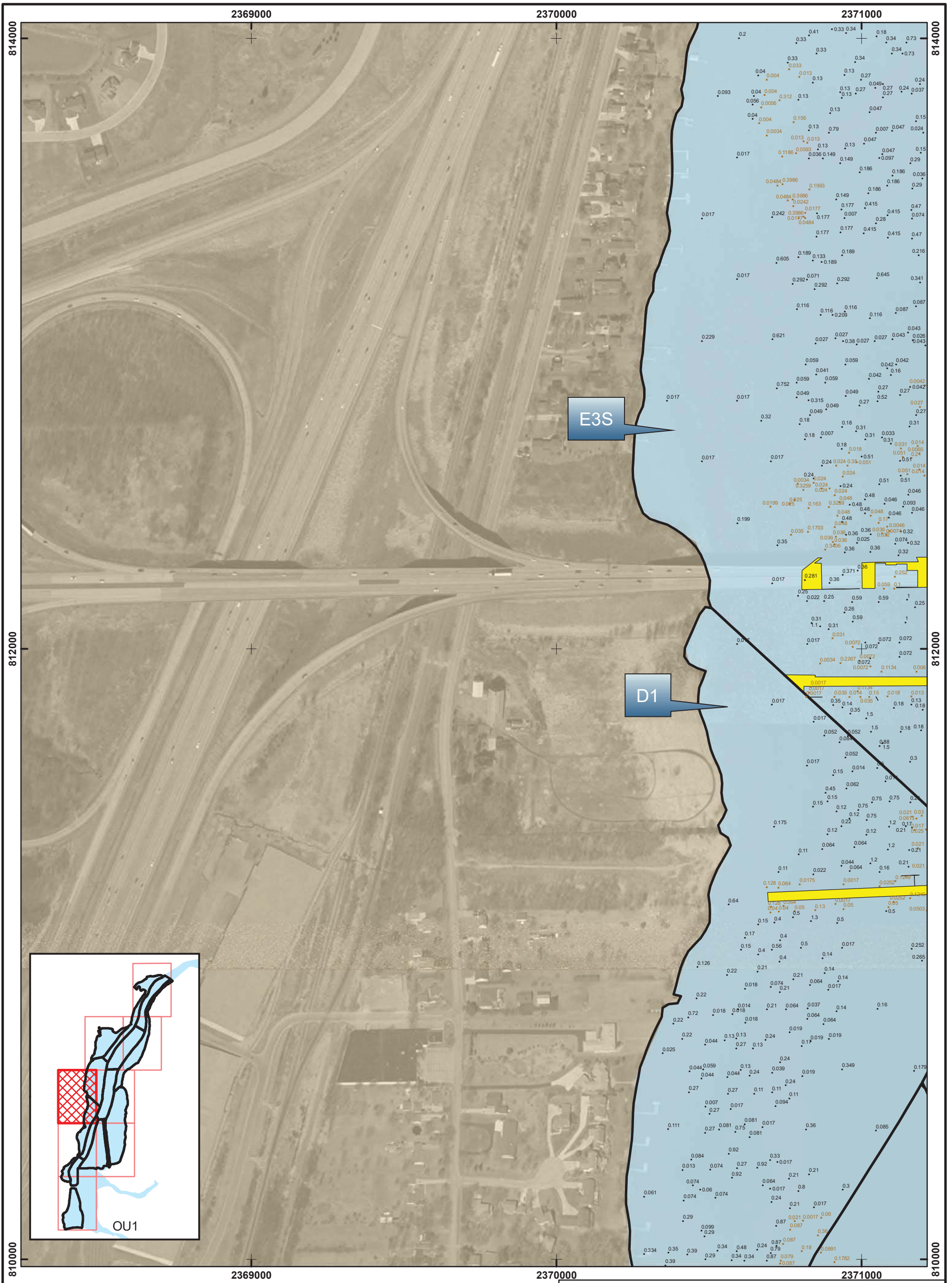
Scale: 0 150 300 Feet

Date: AUGUST, 2010

Drawn By: DAT

Checked By: SGL

Scope: 08G007



Legend

- Sample Core Location - Sand Covered
- Sample Core Location
- Sub-area/DMU Boundaries
- SWAC Strata Area for Engineered Cap (0.0065 ppm)
- SWAC Strata Area for Null (0 ppm)
- SWAC Strata Area for Pipeline/Artifact/Shoreline w/o Samples (3.68 ppm)

Notes:

1. Orthophoto provided by Winnebago County, WI.
2. The horizontal control is referenced to the NAD83 Wisconsin State Plane Coordinate System (Wisconsin Southern Zone).
3. Values represent surface concentrations used in SWAC calculation (ppm).
4. SWAC strata area for pipeline/artifact/shoreline without samples is estimated from the GMS-SED model with an average concentration of 3.68 ppm.



GW PARTNERS

FIGURE 1-28E
LOWER FOX RIVER OU1
SWAC CALCULATION SURFICIAL CONCENTRATION
- NUMERICAL PCB VALUE AT LOCATIONS

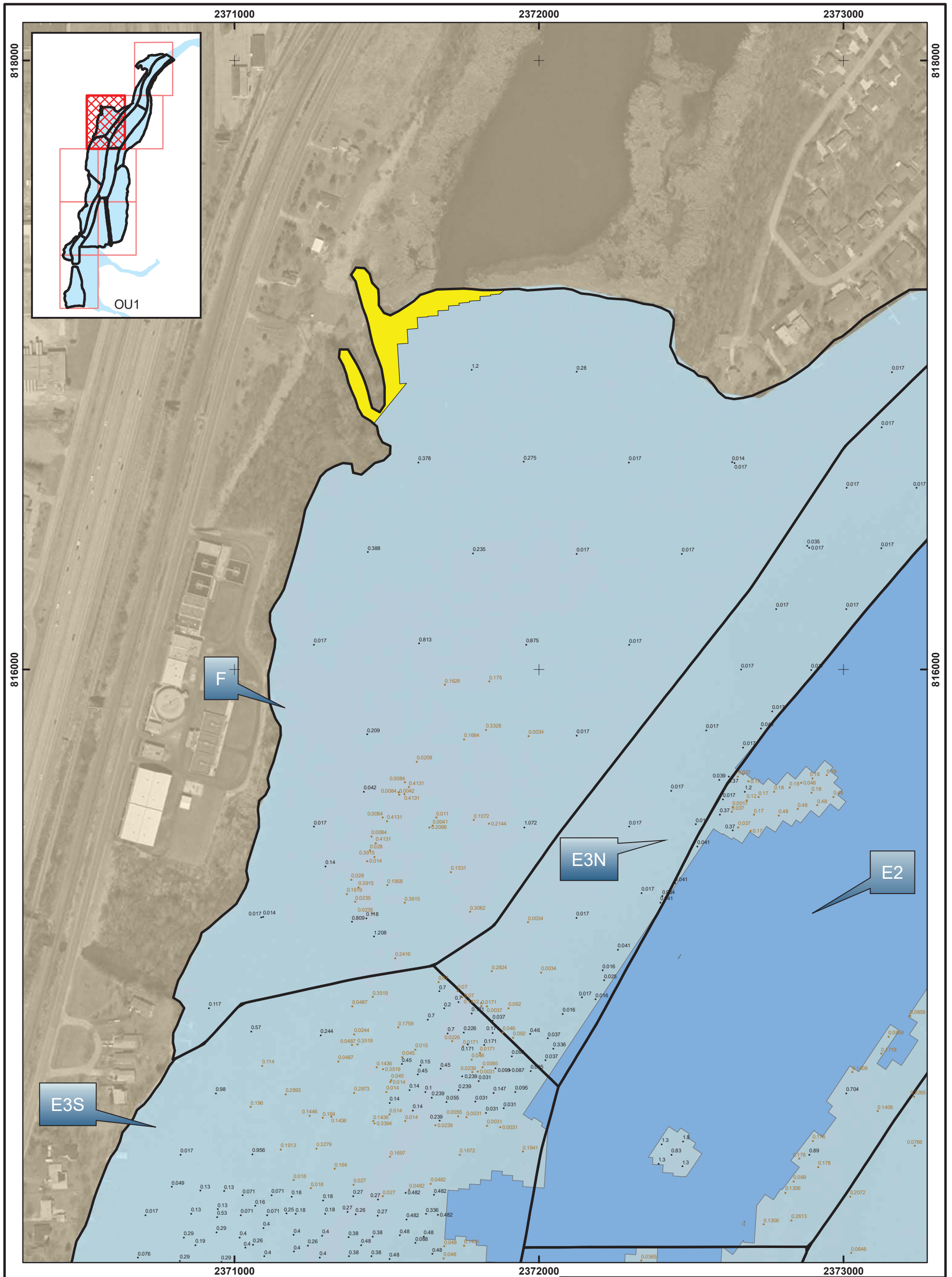
Scale: 0 150 300 Feet

Date: AUGUST, 2010

Drawn By: DAT

Checked By: SGL

Scope: 08G007



Legend

- Sample Core Location - Sand Covered
- Sample Core Location
- Sub-area/DMU Boundaries
- SWAC Strata Area for Engineered Cap (0.0065 ppm)
- SWAC Strata Area for Null (0 ppm)
- SWAC Strata Area for Pipeline/Artifact/Shoreline w/o Samples (3.68 ppm)

Notes:

1. Orthophoto provided by Winnebago County, WI.
2. The horizontal control is referenced to the NAD83 Wisconsin State Plane Coordinate System (Wisconsin Southern Zone).
3. Values represent surface concentrations used in SWAC calculation (ppm).
4. SWAC strata area for pipeline/artifact/shoreline without samples is estimated from the GMS-SED model with an average concentration of 3.68 ppm.



GW PARTNERS

FIGURE 1-28F
LOWER FOX RIVER OU1
SWAC CALCULATION SURFICIAL CONCENTRATION
- NUMERICAL PCB VALUE AT LOCATIONS

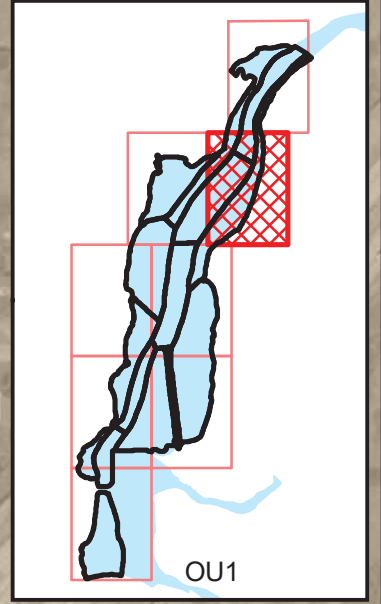
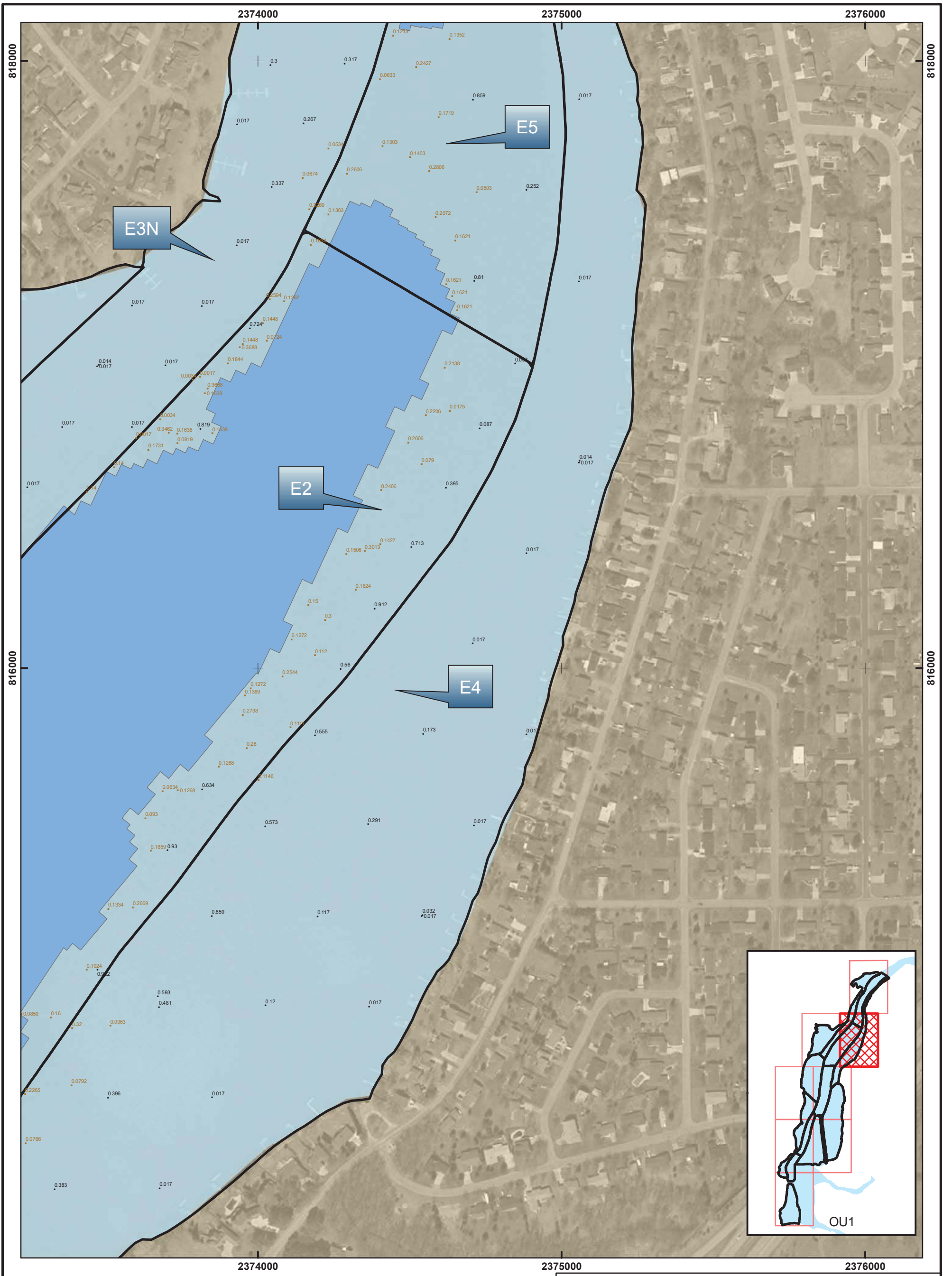
Scale: 0 150 300 Feet

Date: AUGUST, 2010

Drawn By: DAT

Checked By: SGL

Scope: 08G007



Legend

- Sample Core Location - Sand Covered
- Sample Core Location
- Sub-area/DMU Boundaries
- SWAC Strata Area for Engineered Cap (0.0065 ppm)
- SWAC Strata Area for Null (0 ppm)
- SWAC Strata Area for Pipeline/Artifact/Shoreline w/o Samples (3.68 ppm)

Notes:

1. Orthophoto provided by Winnebago County, WI.
2. The horizontal control is referenced to the NAD83 Wisconsin State Plane Coordinate System (Wisconsin Southern Zone).
3. Values represent surface concentrations used in SWAC calculation (ppm).
4. SWAC strata area for pipeline/artifact/shoreline without samples is estimated from the GMS-SED model with an average concentration of 3.68 ppm.



GW PARTNERS

FIGURE 1-28G
LOWER FOX RIVER OU1
SWAC CALCULATION SURFICIAL CONCENTRATION
- NUMERICAL PCB VALUE AT LOCATIONS

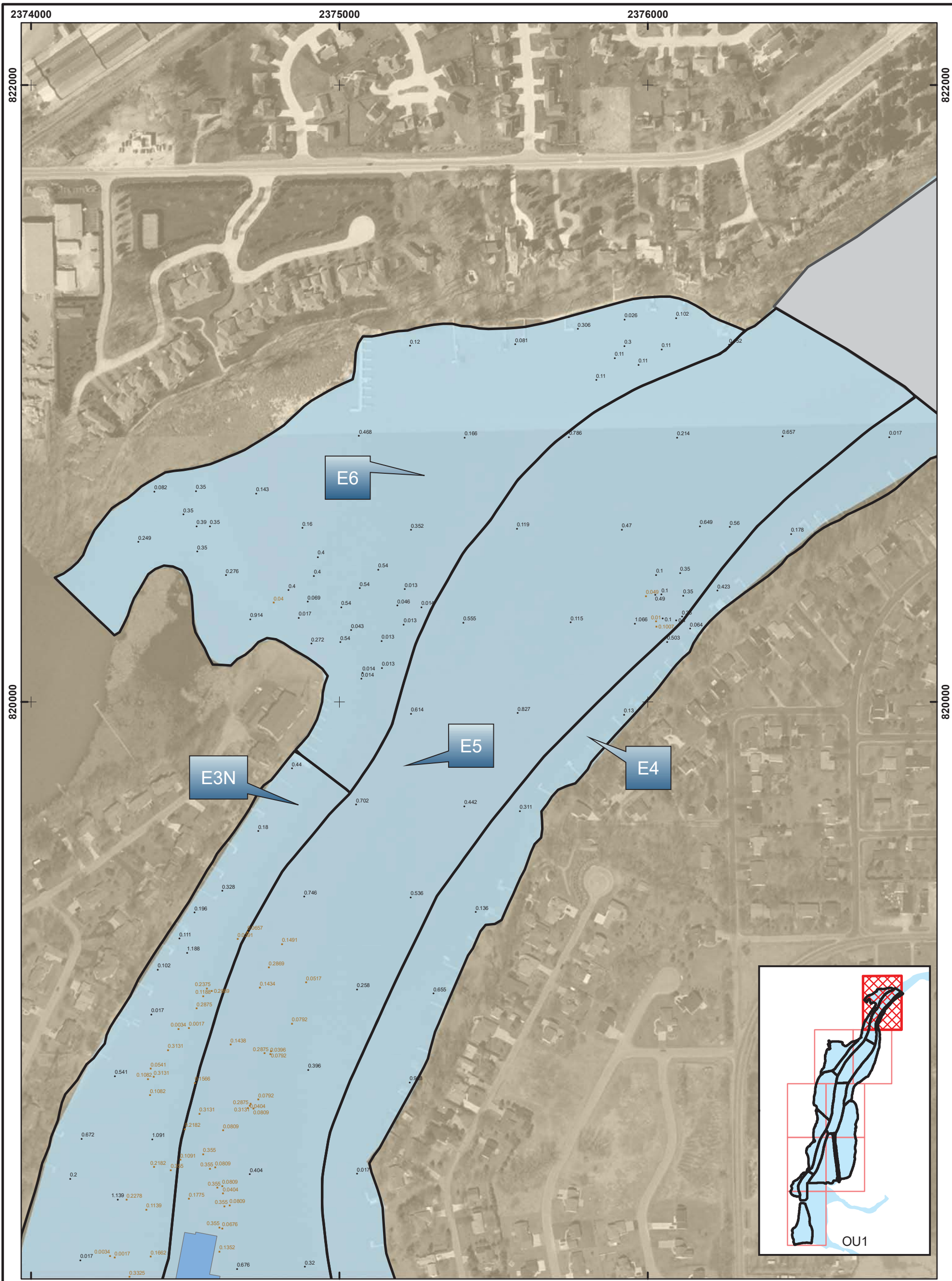
Scale: 0 150 300 Feet

Date: AUGUST, 2010

Drawn By: DAT

Checked By: SGL

Scope: 08G007



Legend

- Sample Core Location - Sand Covered
- Sample Core Location
- Sub-area/DMU Boundaries
- SWAC Strata Area for Engineered Cap (0.0065 ppm)
- SWAC Strata Area for Null (0 ppm)
- SWAC Strata Area for Pipeline/Artifact/Shoreline w/o Samples (3.68 ppm)

Notes:

1. Orthophoto provided by Winnebago County, WI.
2. The horizontal control is referenced to the NAD83 Wisconsin State Plane Coordinate System (Wisconsin Southern Zone).
3. Values represent surface concentrations used in SWAC calculation (ppm).
4. SWAC strata area for pipeline/artifact/shoreline without samples is estimated from the GMS-SED model with an average concentration of 3.68 ppm.



GW PARTNERS

FIGURE 1-28H
LOWER FOX RIVER OU1
SWAC CALCULATION SURFICIAL CONCENTRATION
- NUMERICAL PCB VALUE AT LOCATIONS

Scale: 0 150 300 Feet

Date: AUGUST, 2010

Drawn By: DAT

Checked By: SGL

Scope: 08G007

ATTACHMENT C

Documentation of Remedial Action

C.1 Site Investigation Documentation

See Section 3.A.i., of Form 4400-202, for reference to documents, as well as a full listing of project documents provided in the attached table:

Table 1 Lower Fox River OU1 Documents

C.2 Investigative Waste

Annual Remedial Action Summary Reports for 2004-2008 provide information pertaining to waste disposal:

Refer to REF H, *Lower Fox River Operable Unit 1 Remedial Action – 2004 Remedial Summary Report* in BOTW.

Refer to REF I, *Lower Fox River Operable Unit 1 Remedial Action – 2005 Remedial Summary Report* in BOTW.

Refer to REF J, *Lower Fox River Operable Unit 1 Remedial Action – 2006 Remedial Summary Report* in BOTW.

Refer to REF M, *Lower Fox River Operable Unit 1 – 2007 Remedial Summary Report* in BOTW.

Refer to REF Q, *Lower Fox River Operable Unit 1 – 2008 Remedial Summary Report* in BOTW.

Refer to REF T, *2010-11 Certification of Completion Report* in BOTW.

C.3 Methodology

See Section 3.E.i., of Form 4400-202, for discussion of determination of Remedial Action Levels and Remedial Action Objectives, as well as references to appropriate documents.

C.4 Construction Documentation

From REF T, *2010-11 Certification of Completion Report*:

Table 3-2 OU1 Dredge Removal Area and Volume Summary by Year

WDNR Site Name: Lower Fox River OU1
Case Closure – GIS Registry, Form 4400-202 (rev. 8/16)

Table 3-3 Total PCB Mass Removed from OU1
Table 3-11 OU1 Completed Sand Cover Placement Areas
Table 3-16 OU1 Completed Engineered Cap Placement Areas

From REF T, *2010-11 Certification of Completion Report*:

Table 5-1 Area, Concentration, PCB Mass and Volume by SWAC Category

C.5 Decommissioning of Remedial Systems

Section not required to be completed per WDNR.

C.6 Other

Section not required to be completed per WDNR.

C.1. Site Investigation Documentation

Table 1
Lower Fox River OU1 Documents
GW Partners, LLC

Common Name	Report Title	Report Date	Prepared By
	Record of Decision - dated Dec. 2002	1-Dec-02	DNR
Sampling Work Plan	Sampling Work Plan Components for USEPA and WDNR Consideration at OU-1	1-May-03	F&VD
Pre-Design	Lower Fox River OU-1 Deposit A, Pre-Design Sediment Characterization (Draft)	Aug-03	F&VD
Quality Management Plan	Lower Fox River Operable Unit 1 Remedial Design Quality Management Plan (Draft)	15-Aug-03	CH2M HILL
Sampling Plan	Lower Fox River Operable Unit 1 Pre-design Sampling Plan	Sep-03	CH2M HILL
	Consent Decree and Statement of Work – dated Oct 2003	1-Oct-03	DNR
Sampling Plan	Lower Fox River Operable Unit 1 Pre-design Sampling Plan Treatability Study Addendum	Oct-03	CH2M HILL
Sampling Plan	Lower Fox River Operable Unit 1 Pre-Design Sampling Plan Geotechnical Investigation Addendum (Draft)	Oct-03	CH2M HILL
RD Work Plan	Lower Fox River Operable Unit 1 Remedial Design Work Plan	Feb-04	CH2M HILL
Arrowhead Park LF	Arrowhead Park Landfill Geotechnical Investigation	16-Feb-04	CH2M HILL
	Draft White Paper - Development of Sediment Prisms	1-Apr-04	DNR
	Remedial Action 2004 Civil Site Work	1-Apr-04	DNR
	Remedial Action 2004 Water Treatment Process	1-Apr-04	DNR
Preliminary Design	Lower Fox River Operable Unit 1 Remedial Design – 2004 Remedial Action Preliminary 50% Design Report	1-Apr-04	CH2M HILL
Pre-Final Design	Lower Fox River Operable Unit 1 Remedial Design – 2004 Remedial Action Pre-Final Design Report 90%	1-Apr-04	CH2M HILL
Final Design	Lower Fox River Operable Unit 1 Remedial Design – 2004 Remedial Action Final Design Report	Apr-04	CH2M HILL
Sub.Reqmts	Lower Fox River OU1 Remedial Action, Joint Federal/State Environmental Substantive Requirements Submittal Sections 404, 10, and 401, Chapter 30	May-04	GWP & CH2M HILL
Erosion/SW Plan	Lower Fox River Operable Unit 1 2004 Remedial Action, Erosion Control and Stormwater Management Plans	May-04	CH2M HILL

Common Name	Report Title	Report Date	Prepared By
Archaeological Investigation	Phase 1 Archaeological Investigation of the Lower Fox River/Green Bay Operable Unit 1 Remediation Site Along the West Shore of the Little Lake Butte des Morts	May-04	F&VD, Dave Kluth, & Meg Thornton
RA Work Plan	Lower Fox River Operable Unit 1 Remedial Action – 2004 Remedial Action Work Plan (Vol. I of II)	1-May-04	CH2M HILL
Civil Work	Lower Fox River (OU1) 2004 Remedial Action Town of Menasha, WI 2004 Site Civil Work (Vol. I of II, Specifications) Preliminary Design Submittal (Draft)	1-Jun-04	CH2M HILL
Civil Work	Lower Fox River (OU1) 2004 Remedial Action Town of Menasha, WI 2004 Site Civil Work (Vol. II of II, Drawings) (Revised June 2004 as Conformed Documents) (Draft)	1-Jun-04	CH2M HILL
Sampling Plan	Lower Fox River Operable Unit 1 Pre-design Sampling Plan – Phase 2 Sampling	15-Jun-04	CH2M HILL
Archaeological Investigation	Phase I Archaeological Investigation of the Lower Fox River Operable Unit 1 Remediation Site and an Archaeological Review of Side Scan Sonar Data from Little Lake Butte des Morts	1-Aug-04	F&VD, Dave Kluth, Andrew J. Albert, Michael Kolb
Archaeological Review	An Archaeological Review of Sidescan Sonar Data from Little Lake Butte des Morts, Winnebago and Outagamie Counties, Wisconsin	Sep-04	Strata Morph Geospatial, Inc. (SMG)
	FIELDS Data Analysis	7-Sep-04	EPA
	OU1 RA: ZID Analysis for Temporary Outfall Pipe	7-Sep-04	DNR
	Extra FIELDS Report	13-Sep-04	EPA
RA Work Plan	Lower Fox River Operable Unit 1 Remedial Action – 2004 Remedial Action Work Plan	Dec-04	CH2M HILL
Pre-design BODR	Lower Fox River Operable Unit 1 Pre-design – Basis of Design	30-Mar-05	CH2M HILL
Civil Work	Lower Fox River (OU1) 2005 Remedial Action Town of Menasha, WI 2005 Site Civil Work (Vol. I of II, Specifications)	1-Apr-05	CH2M HILL
Pre-final Design	Lower Fox River Operable Unit 1 Remedial Design – 2005 Remedial Action Pre-final Design Report 90%	1-May-05	CH2M HILL
Water Treatment	Contract Documents for the Construction of LFR OU1 2005 Remedial Action Town of Menasha, WI, 2005 Water Treatment Process Report (Vol. I of II, Specifications)	1-Jun-05	CH2M HILL

Common Name	Report Title	Report Date	Prepared By
Water Treatment	Contract Documents for the Construction of LFR OU1 2005 Remedial Action Town of Menasha, WI, 2005 Water Treatment Process Report (Vol. II of II, Drawings)	1-Jun-05	CH2M HILL
Civil Work	Lower Fox River (OU1) 2005 Remedial Action Town of Menasha, WI 2005 Site Civil Work (Vol. II, Drawings)	1-Jun-05	CH2M HILL
RA Work Plan	Lower Fox River Operable Unit 1 Remedial Action – 2005 Remedial Action Work Plan	Aug-05	CH2M HILL
	Fate of PCPs in Soil Following Stabilization with Quicklime	30-Nov-05	EPA
	USEPA Tech Trends Article: Lime-Treated PCB Test Results	30-Nov-05	EPA
Summary	Lower Fox River Operable Unit 1 Remedial Action – 2004 Remedial Summary Report	1-Mar-06	CH2M HILL
Preliminary Design	Lower Fox River Operable Unit 1 Remedial Design – 2005 Remedial Action Preliminary Design 50%	1-Mar-06	CH2M HILL
RA Work Plan	Lower Fox River Operable Unit 1 Remedial Action – 2005 Remedial Action Work Plan, Volumes 1 and 2	31-Mar-06	CH2M HILL
RA Scenarios	OU-1 Remedial Action Scenarios (Draft)	4-May-06	FVD
BODR	Final Basis of Design Report Volumes I & II	1-Jun-06	Shaw
Final Design	Lower Fox River Operable Unit 1 Remedial Design – 2006 Remedial Action Final Design Report	1-Jun-06	CH2M HILL
RA Work Plan	Lower Fox River Operable Unit 1 Remedial Action – 2006 Remedial Action Work Plan	1-Jun-06	JF Brennan
	Executive Summary/Lessons Learned: LFR OU 1 2005 Dredging	7-Jun-06	SMWG
	Executive Summary/Lessons Learned: Lower Fox River SMU 56/57 Pilot	7-Jun-06	SMWG
RA Summary	Lower Fox River Operable Unit 1 Remedial Action – 2005 Remedial Summary Report	Jan-07	FVD, STS, CH2M HILL
RA Summary	Lower Fox River Operable Unit 1 Remedial Action – 2006 Remedial Summary Report	1-May-07	Foth, STS, CH2M HILL, JF Brennan
Emergency Plan	Health and Safety Emergency Action Plan	25-Jun-07	GWP
Cap Test Plan	Lower Fox River Operable Unit 1, 2007 Cap Placement Test Plan	Sep-07	Foth, CH2M HILL
Final Plan	Lower Fox River Operable Unit 1, OU1 Final Plan (Draft)	Oct-07	Foth, CH2M HILL
Concept Paper	Lower Fox River, Operable Unit 1 Optimized Remedy Concept Paper (Draft)	22-Oct-07	GW Partners
Design Supplement	Lower Fox River Operable Unit 1, OU1 Design Supplement	Nov-07	Foth, CH2M HILL

Common Name	Report Title	Report Date	Prepared By
Pre-Final Design/ RA Work Plan	Lower Fox River Operable Unit 1 Remedial Action – 2007 Pre-Final Design Report and Remedial Action Work Plan	Nov-07	Foth, STS, CH2M HILL, JF Brennan
Proposed Plan	OU1 Proposed Plan and Fact Sheet for Final ROD Action	7-Nov-07	EPA
ROD	Draft Record of Decision Amendment, Operable Unit 1, Lower Fox River and Green Bay Superfund Site	7-Feb-08	EPA
Errata Report/	Errata Report for the Lower Fox River Operable Unit 1 Remedial Action – 2007 Pre-Final Design Report and Remedial Action Work Plan	8-Feb-08	Foth, STS, CH2M HILL, JF Brennan
	Draft Responsiveness Summary	15-Feb-08	EPA
Cap Test Summary	Lower Fox River Operable Unit 1, 2007 Cap Placement Test Summary	1-Mar-08	Foth
RA Summary	Lower Fox River Operable Unit 1, 2007 Remedial Action Summary Report	1-May-08	Foth, JF Brennan, STS
Final Design/ RA Work Plan	Lower Fox River Operable Unit 1 – 2008-2009 Final Design and Remedial Action Work Plan	1-Jun-08	Foth, JF Brennan, CH2M HILL
ROD	Record of Decision Amendment with Consent Decree (lodged in court)	20-Jun-08	EPA
Final Cap Design	Lower Fox River Operable Unit 1 – Final OU1 Cap Design	Oct-08	Foth
Final Design/ RA Work Plan	Lower Fox River Operable Unit 1, 2008-2009 Final Design and Remedial Action Work Plan, Addendum No. 1	1-Apr-09	Foth & Brennan
RA Summary	Lower Fox River Operable Unit 1, 2008 Remedial Action Summary Report	Sep-09	Foth, JF Brennan
	OU1 Municipalities Memorandum of Agreement (MUNI MOA) - Appendix G of ICIAP	Feb 2010 (original); 12/29/17 (see notes)	
	OU1 WDNR Memorandum of Agreement (WDNR MOA)	Feb 2010 (original); 5/5/17 (draft final)	
RD/RAWP Post-2009	Appendix H Lower Fox River Operable Unit 1, Institutional Control Implementation and Assurance Plan	Feb 2010 (original); 6/2/2017 (final form)	CH2M HILL & GWP
	Updated Consolidation Report for 2007 & 2008 Caps	3-Mar-10	
RA Summary	Lower Fox River Operable Unit 1, 2009 Remedial Action Summary Report	4/15/2010 (10/12/10 Agencies list)	Foth & Brennan
RA Certification of Completion	Lower Fox River Operable Unit 1, Remedial Action Certification of Completion	Nov-10	Foth & CH2M HILL
Year Zero/2010	Lower Fox River Operable Unit 1 Year Zero Summary Report	Mar-11	Foth
RD/RAWP Post-2009	Appendix A Lower Fox River Operable Unit 1 and Lake Winnebago Long-term Monitoring, Health and Safety Plan	Jun-11	Foth

Common Name	Report Title	Report Date	Prepared By
RD/RAWP Post-2009	Appendix B Lower Fox River Operable Unit 1 and Lake Winnebago Long-term Monitoring, Quality Assurance Project Plan	Jun-11	Foth
RD/RAWP Post-2009	Appendix C Staging Areas Restoration Plan	Jun-11	Foth & CH2M HILL
RD/RAWP Post-2009	Appendix D Foth Memo on Historic Fill	Jun-11	Foth
RD/RAWP Post-2009	Appendix E 2010 Site Restoration Documentation Drawings	Jun-11	Foth
RD/RAWP Post-2009	Appendix G Lower Fox River Operable Unit 1, Cap Monitoring and Maintenance Plan	Jun-11	Foth & CH2M HILL
RD/RAWP Post-2009	Lower Fox River Operable Unit 1, Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work	Sept 2011; 8/11/17 Final with App H	Foth & CH2M HILL
RD/RAWP Post-2009	Appendix F Lower Fox River Operable Unit 1, Long-term Monitoring Plan	Sep-11	Foth & CH2M HILL
2010 LTM Summary	2010 Long-term Monitoring Summary Report	Nov-12	Foth
	OU1 LTMP 5-Year Flow Memo Final Draft	19-Apr-13	Foth
2012 LTM Summary	2012 Long-term Monitoring Summary Report	Nov-13	Foth

C.4. Construction Documentation

Table 3-2

OU1 Dredge Removal Area and Volume Summary by Year

Sub-area by Year	Planned Surface Area of 1.0 ppm PCB Target (ac)	Planned Volume to 1.0 ppm PCB Target (cy)	Final Design Planned 4 inch Overcut Volume (cy)	Final Design Planned Total Volume ⁴ (cy)	Actual Surface Area Dredged ⁵ (ac)	Actual Dredged Volume to 1.0 ppm PCB Target (cy)	Actual Dredged Volume including Overcut (cy)
2004							
A	--	--	--	--	3.3	4,820	7,980
Sub-Area A Re-dredge	--	--	--	--	0.6	80	220
POG2	--	--	--	--	2.9	7,367	7,370
Totals	--	--	--	--	6.8	12,267	15,570⁷
2005							
A	--	--	--	--	38.2	41,574	53,581
C/D2S	--	--	--	--	11.0	12,039	16,961
POG1	--	--	--	--	7.8	NA	17,701
Totals	--	--	--	--	57.0	53,613	88,243
2006							
C/D2S North	7.44	7,031	3,940	10,971	7.33	6,472	11,136
E1 South	1.16	3,066	623	3,689	1.16	2,823	3,427
POG2	11.30	56,584	6,000	62,584	11.16	47,452	51,696
POG3 South	32.32	29,851	17,356	42,207	32.27	9,904	11,521
POG3 North	7.68	10,189	4,127	14,316	7.67	7,605	9,921
POG4 South	5.03	16,161	2,586	18,747	4.81	9,643	10,353
Subtotal Re-Dredge Area	--	--	--	--	5.2	1,546	3,969
Subtotal TSCA Area¹	1.08	1,068	--	1,068	1.08	462	464
Totals	64.93	122,882	34,632	157,514	69.6	85,445	102,023
2007							
A	10.4	4,815	5,594	10,409	10.0	2,994	7,446
C	4	2,658	2,128	4,786	3.8	2,827	5,534
D1	22.5	24,344	15,357	46,404	28.3	15,869	23,521
D1 Re-dredge	--	--	--	--	0.2	0.24	152
E1	2.6	4,920	1,401	6,321	2.6	4,943	6,463
E2 ²	2.0	7,036	1,389	9,652	2.7	5,352	6,924
E2 Re-dredge	--	--	--	--	0.5	0.48	764
E3S	4.2	5,263	24,931	82,376	27.1	28,476	36,192
E3S Re-dredge	--	--	--	--	0.1	0.08	133
E3N	--	--	545	1,833	0	0	0
E5 ³	0.8	392	423	815	0.8	46	580
E6	5.9	10,811	3,163	13,974	5.9	9,143	11,606
F	--	--	22	66	0.1	35	57
POG1	3.3	399	1,751	2,150	3.0	1,238	3,042
POG2	3.7	6,881	1,983	8,864	0	0	0
POG3 South	0.3	203	169	372	0.3	149	210
POG3 North	8.8	9,949	4,723	14,672	8.8	13,827	19,186
POG4 South	0.2	410	122	532	0	0	0
Totals	68.7	78,081	63,701	203,226	94.0	84,899	121,810

Sub-area by Year	Planned Surface Area of 1.0 ppm PCB Target (ac)	Planned Volume to 1.0 ppm PCB Target (cy)	Final Design Planned 4 inch Overcut Volume (cy)	Final Design Planned Total Volume ⁴ (cy)	Actual Surface Area Dredged ⁵ (ac)	Actual Dredged Volume to 1.0 ppm PCB Target (cy)	Actual Dredged Volume including Overcut (cy)
2008							
C	0.18	215	--	215	0.18	168	168
D1	1.26	1,618	680	2,298	1.26	1,271	1,904
D2N	0.84	846	453	1,299	0.84	692	813
E3S	18.75	24,134	10,085	34,219	18.75	20,110	25,954
E3N	1.54	1,812	829	2,641	1.54	908	914
E4	0.77	1,226	416	1,642	0.77	997	1,385
POG2	3.76	6,977	2,021	8,998	3.76	6,207	7,348
POG4	1.51	3,291	809	4,100	1.51	2,266	2,376
POG1 Re-dredge	0.15	--	--	--	0.14	--	96
POG3 Re-dredge	0.83	--	--	--	0.83	--	527
Totals	29.60	40,119	15,293	55,412	29.59⁶	32,619	41,485
Project Grand Total	--	--	--	--	257.0	268,843	369,131⁷

1. Included in POG3 South area and Volume.

2. Includes 0.04 acres in Sub-area E3N.

3. Includes 0.01 acres in Sub-area E4.

4. Includes allowances for 4-inch overcut.

5. Total includes re-dredge areas acreage.

6. Includes 4.89 acres that had been previously dredged (in 2006/2007) and was re-dredged in 2008, as well as 24.7 acres of first-pass dredging.

7. An additional 2,400 cy of native clay material was removed from Sub-areas D and E for installation of the WTP effluent pipe. Adding the volume to the volume of PCB impacted sediment removed results in a total OU1 dredge volume of 371,531 cy.

Prepared by: NRA

Checked by: TAG

Table 3-3
Total PCB Mass Removed from OU1

Year	Estimated PCB Mass Removed¹ lbs (kg)
2004	40 (18)
2005	423 (192)
2006	1,059 (480)
2007	226 (103)
2008	78 (35)
Total	1,826 (828)

Table taken from the 2008 RA Summary Report, Table 4-10, page 38.
1. Includes recharacterization data.

Prepared by: SGL
Checked by: TAG

Table 3-11
OU1 Completed Sand Cover Placement Areas

Year	Sub-Area	3" Sand Cover Design (ac)	3" Sand Cover Placed (ac)	6" Sand Cover Design (ac)	6" Sand Cover Placed (ac)	6" Residual Sand Design (ac)	6" Residual Sand Placed (ac)	9" Residual Sand Design (ac)	9" Residual Sand Placed (ac)
2007	POG3					5.4	5.4		
	A	0.2	0.2	--	--	14.4	14.4	--	--
	C/D2S	--	--	1.5	1.5	1.9	2.0 ¹	--	--
	D1	1.2	1.2	1.3	1.3	1.1	1.2 ¹	--	--
	D2N	1.9	1.9	2.5	2.5	--	--	--	--
	E1	12.2	12.1 ¹	14.3	14.3	0.3	0.3	--	--
	E2	9.3	5.6	3.7	1.4	1.2	1.2	--	--
	E3N	3.3	3.2	2.3	2.1	--	--	--	--
	E3S	6.3	6.3	10.1	10.0 ¹	0.6	0.6	--	--
2008	E4	4.3	4.3	1.7	1.7	--	--	--	--
	E5	6.3	5.9 ²	4.3	4.1	--	--	--	--
	E6	0.2	0.0 ²	--	--	--	--	--	--
	F	7.1	4.3 ²	3.7	3.7	--	--	--	--
	POG1	--	--	--	--	0.1	0.1	--	--
	POG2	--	--	--	--	3.5	3.5	4.5	4.5
	POG3N	--	--	--	--	2.0	2.0	--	--
	POG3S	2.5	2.5	1.0	1.0	0.7	0.7	--	--
	POG4	9.3	9.3	0.3	0.3	0.6	0.6	--	--
	Total	64.1	56.8	46.7	43.9	26.4	26.6	4.5	4.5
2009	E2	3.6	3.6	2.3	2.3	--	--	--	--
	E3N	0.05	0.05	0.2	0.2	--	--	--	--
	E5	0.05	0.05	0.2	0.2	--	--	--	--
	Total	3.7	3.7	2.7	2.7	--	--	--	--

2007 data from the 2007 RA Summary Report, Table 11-1, page 85.

2008 data from the 2008 RA Summary Report, Table 10-1, page 75.

2009 data from the 2009 RA Summary Report, Table 6-1, page 22.

1. Difference in design acreage vs. placed acreage is due to rounding.

2. A portion of the sub-area sand cover was removed from the OUI RA scope of work per approval received from A/OT. See memo dated September 12, 2008, in the 2008 RA Summary Report, Appendix B.

Prepared by: NRA
Checked by: TAG

Table 3-16

OU1 Completed Engineered Cap Placement Areas

Sub Area	2007 RA Cap Placement Test Area	2008-2009 RA Planned Total Placement ¹	2008 RA				2009 RA	2007-2008-2009 RA		
			Reported Placement ²	Actual Placement ³	Overlap with 2007 areas ⁴	Adjusted Placement ⁵	Actual Placement ⁶	Actual Total Placement ⁷	Adjusted Total Placement ⁸	Actual Minus Planned Total Placement ⁹
D1		-	-	0.06	-	0.06	-	0.06	0.06	0.06
E1		36.5	36.50	37.3	-	37.3	-	37.3	37.3	0.8
E2	4.0	61.8	31.8	31.2	0.86	30.3	30.6	65.8	64.9	0.0
E3 North		0.5	0.50	0.4	0.01	0.4	0.04	0.4	0.4	(0.1)
E3 South		7.9	7.90	8.05	-	8.05	-	8.05	8.05	0.15
E4		0.3	0.30	0.29	-	0.29	-	0.29	0.29	(0.0)
E5		2.0	0.4	0.4	-	0.4	1.6	2.0	2.0	0.0
POG2		-	-	0.02	-	0.02	-	0.02	0.02	0.02
POG3		-	-	0.01	-	0.01	-	0.01	0.01	0.01
POG4		0.9	0.90	0.9	-	0.9	-	0.9	0.9	0.0
Total	4.0	109.9	78.30	78.6	0.87	77.7	32.2	114.8	113.9	0.9

1 Data from 2008-2009 RA Work Plan. Estimate includes overlap with 2007 Cap Placement Test Areas.

2 2008 data from 2008 RA Summary Report, Table 11-1.

3 From total accounting of all 2008-2009 implementation shapes over all OU1 sub-areas (calculated by SGL2, 1/11/2010), minus 2009 implementation areas.

4 From comparison of implementation shapes, with shapes of 2007 Cap Placement Test Areas, discussion provided in 2009 RA Summary Report.

5 Actual placement from 2008 RA, minus overlap with 2007 areas.

6 2009 data from 2009 RA Summary Report, Table 7-1, no adjustments required.

7 Actual placement from 2008 RA, plus 2009 RA placement, includes overlap placement into 2007 Cap Placement Test areas of 0.87 acres.

8 Adjusted total placement, total reduced by subtracting overlap with 2007 areas.

9 Difference between 'Actual Total Placement' and '2008-2009 RA Planned Total Placement'. Does not account for the 4 acres placed in 2007.

Prepared by: GRE
Checked by: TAG

Table 5-1

Area, Concentration, PCB Mass and Volume by SWAC Category

SWAC Stratum	Area (Ac)	SWAC Contribution¹ (ppm)	PCB Mass² (lbs)	Volume³ (cy)
Engineered Cap	114	0.0065	55	92000
Completed Dredge Areas (Excluding Residual Sand Cover)	173	0.415	44	112000
Interdeposit	456	0.390	138	352000
Void (Sampled Areas with No Sediment Recovery) ⁴	224	0.0168	0	0
Null (No Soft Sediment - Unsampled)	247	0	0	0
3-Inch Sand Cover Only	60	0.248	23	47000
6-Inch Sand Cover Only	46	0.152	21	36000
Residual Sand Cover (6-Inch)	32	0.360	46	18000
Residual Sand Cover (9-Inch)	4.5	0.541	20	3000
Pipeline/Artifact/Shoreline (No Action in Unsampled Areas)	6.9	3.68	14	5400
Artifact/Shoreline (No Action in Sampled Areas)	1.3	0.983	1	900

1. SWAC contribution represents weighted PCB average of stratum with calculations detailed in Appendix E.
2. PCB mass represents mass estimated in top 6 inches of sediment (excluding cap and sand cover). In areas where less than 6 inches of sediment exists, PCB mass estimates correspond to existing sediment thicknesses.
3. Volume corresponds to existing sediment volume to a depth of 6 inches, excluding cap and sand cover.
4. While the SWAC concentration for this stratum is taken as 0.0168 ppm, no mass or sediment volume is assumed due to no soft-sediment recovery.

Prepared by: SGL
Checked by: GRE

In summary, using the SWAC calculation procedures described above and in Appendix E, the PCB data collected after dredging and the post-implementation measurement of the alternate RA areas, Foth calculates a post-remediation OU1 SWAC of 0.23 ppm PCB. Since the SWAC estimate is below 0.25 ppm, SWAC objective goals have been achieved. A 95% confidence interval on the SWAC estimate, calculated using procedures in Appendix E, is 0.22 ppm to 0.24 ppm. This very tight confidence interval implies a high degree of SWAC estimation accuracy.

ATTACHMENT D

Maintenance Plan

D.1 Description of Maintenance Actions

Lower Fox River Operable Unit 1 - Cap Monitoring and Maintenance Plan, May 2011
(REF V in BOTW)

Plan for long-term monitoring and maintenance of engineered caps.

Lower Fox River Operable Unit 1 - Long-term Monitoring Plan, June 2011 (REF X in
BOTW)

Plan for long-term monitoring of surface water and fish.

D.2 Location Map(s)

Refer to Lower Fox River Operable Unit 1 - Cap Monitoring and Maintenance Plan, May
2011 (REF V in BOTW) for the figure below:

Figure 1-1 Lower Fox River OU1 Engineered Cap Placement Areas

Refer to Lower Fox River Operable Unit 1 - Long-term Monitoring Plan, June 2011
(REF X in BOTW) for the figures below:

Figure 2-2 Lake Winnebago Sampling Stations

Figure 2-3 Operable Unit 1 Sampling Stations

D.3 Photographs

Section not required to be completed per WDNR.

D.4 Inspection Log

Not applicable, refer to Cap Monitoring and Maintenance Plan and Long-term
Monitoring Plan for logging routine monitoring and maintenance requirements.

D.1 – D.4 Maintenance Plan

Final

Lower Fox River Operable Unit 1 – Cap Monitoring and Maintenance Plan

Prepared for
WTM I Company
GW Partners, LLC

May 2011



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1-1 OU1 Engineered Cap Placement Areas

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A Bathymetric Survey Requirements

Acronyms and Abbreviations

ARAR	Applicable or Relevant and Appropriate Requirements
CCU	cap certification unit
CERCLA	Comprehensive Environmental Response, Compensation, Liability Act
cfs	cubic feet per second
CH2M HILL	CH2M HILL, Inc.
cm	centimeter
CMMP	Cap Monitoring and Maintenance Plan
Foth	Foth Infrastructure & Environment, LLC
GW Partners	GW Partners, LLC
J.F. Brennan	J.F. Brennan Company, Inc.
LFR	Lower Fox River
LLBdM	Little Lake Butte des Morts
OU1	Operable Unit 1
PCB	polychlorinated biphenyl
ppm	parts per million
QA	quality assurance
QAPP	Quality Assurance Project Plan
RA	remedial action
ROD	Record of Decision
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey

SECTION 1

1.0 Introduction

This *Lower Fox River Operable Unit 1 – Cap Monitoring and Maintenance Plan* (Foth and CH2M HILL, 2011) (CMMP) is included as an appendix to the *Integrated Design and Remedial Action and Work Plan for the Post-2009 Response Work*. This plan describes post-placement cap monitoring activities that will be performed to ensure the cap retains its physical integrity and protectiveness over time. This CMMP also outlines contingency response actions that will be implemented if the engineered cap is eroded or otherwise significantly damaged.

Engineered caps were placed over approximately 110 acres of un-dredged river with sediment polychlorinated biphenyls (PCB) concentrations between 2.0 parts per million (ppm) and 10 ppm in the top 8 inches of sediment and a post-cap water depth greater than 6 feet. Areas with PCBs less than 2.0 ppm in the top 8 inches of sediment, and no other 8-inch interval with average PCB concentration greater than 1.0 ppm, were remediated with sand covers. The Operable Unit 1 (OU1) engineered cap placement areas are shown on Figure 1-1.

As described in the *Record of Decision Amendment* (USEPA, 2008) (*ROD Amendment*), long-term monitoring will be performed on the engineered caps to ensure their long-term integrity and protectiveness. However, consistent with the ROD Amendment, sand covers, which were placed as the primary remedy or for post-dredge residuals management, will not require long-term monitoring or maintenance.

This CMMP addresses the following:

- Data quality objectives for post-construction monitoring of capped areas, including rationale for the type, location, and frequency of monitoring
- Monitoring techniques/methods to be used
- Response actions
- Reporting requirements

The main body of this CMMP has been divided into the following sections:

- Introduction
- Cap Design Summary
- Cap Monitoring
- Cap Maintenance
- Continuing Access Requirements

Section 2 of this CMMP presents a summary of the cap designs. Section 3 presents plans for long-term monitoring. Section 4 presents cap maintenance plans for damaged caps.

Aspects of this CMMP may be adaptively managed by the Respondents, Response Agencies, and their respective technical consultants. Using an adaptive management approach, information collected during the early stages of the monitoring program may be used to guide or improve the performance of later field or analytical tasks.

SECTION 2

2.0 Cap Design Summary

The sediment capped in OU1 contains less than 10 ppm in any top 8-inch interval and, in most areas, less than 5 ppm PCBs in the top 8-inch interval. In addition to chemically isolating these levels of PCBs, the cap was designed with an armor layer to physically protect the chemical isolation layer from the effects of bioturbation and erosion. The cap design (*Lower Fox River Operable Unit 1 – Final OU1 Cap Design* [Foth 2008a]) considered the stability of the cap's armor stone with regards to stresses generated by prop wash, wind-wave action, and flow. The potential impacts of ice scour and sediment consolidation, shear strength, and liquefaction on the cap were also evaluated. A single engineered cap designed for OU1's physical environment was used to effectively contain these levels of PCBs. The OU1 engineered cap design required a minimum sand and armor stone thickness of 3 inches and 4 inches, respectively. With the inclusion of overplacement allowances, the average sand and armor stone thicknesses were anticipated to be 6 inches and 7 inches, respectively, totaling 13 inches. Verification sampling showed that the placed-thicknesses for both the sand and armor stone layers met the minimum design standards.

SECTION 3

3.0 Cap Monitoring

The *ROD Amendment* requires long-term monitoring and maintenance of the engineered cap to ensure its long-term integrity and, thus, its protectiveness. The long-term cap monitoring will include:

- Routine monitoring of all capped areas using bathymetric surveys and other techniques such as poling and probing; and
- Additional event-based cap monitoring of all capped areas when needed using bathymetric surveys and other techniques such as poling and probing.

The need for, and scope of, continued cap monitoring will be evaluated as part of the 5-year review process.

3.1. Routine Monitoring of Sediment Caps

OU1 cap placement was completed in 2009. As part of construction quality assurance (QA), QA bathymetric surveys were performed on all the OU1 caps following their placement. The results of these surveys were documented in the *Lower Fox River Operable Unit 1 – 2007 Cap Placement Test Summary* (Foth 2008b) and the *Lower Fox River Operable Unit 1 – 2008 Remedial Action Summary Report* (Foth and J.F. Brennan, 2009), and the *Lower Fox River Operable Unit 1 – 2009 Remedial Action Summary Report* (Foth and J.F. Brennan, 2010).

Long-term monitoring bathymetric surveys will be performed using either single beam or multi-beam acoustical systems that conform to guidelines set forth by the U.S. Army Corps of Engineers (USACE) guidance (EM 1110-2-1003, Engineering and Design - Bathymetric Surveying dated April, 2004 [USEPA, 2004]). Details of the survey position and control equipment are presented in Appendix A. Additional procedural requirements are included in Section 11 of the *Lower Fox River Operable Unit 1 and Lake Winnebago Long-term Monitoring – Quality Assurance Project Plan* (Foth and CH2M HILL, 2011) (QAPP). To the extent possible, survey data will be collected along the same transects for each survey to aid in data comparisons.

The interpretation of changes in bathymetric surveys should also consider the consolidation of soft sediments beneath the armored cap. Consolidation of soft sediments is a long-term process, and the extent of consolidation depends on the thickness of cap placement, the elapsed time since placement, the thickness of soft sediment beneath the cap, initial conditions of the sediment, and consolidation properties of the sediment. For most cap areas in OU1, where the soft sediment thickness was 6 feet or greater, consolidation was expected to be in the range of 12 inches or greater. Most of the consolidation was expected to occur within the first year after placement, but detailed monitoring and analysis of the OU1 cap areas by poling and bathymetric surveys has indicated that consolidation was not necessarily complete for periods greater than 1 year after placement (Foth, 2010). Further details of trends in consolidation will likely become apparent when reviewing the records

and newly collected data for changes in top-of-cap elevation for OU1 cap areas placed in 2007, 2008, and 2009.

Routine cap monitoring will be performed in 2010, 2012, and every 5 years thereafter or until otherwise determined as part of the 5-year review process. Termination of routine cap monitoring may be appropriate after a certain time period (e.g., 25 years) has passed without significant cap erosion. Discussion of the end-point for cap monitoring will be a routine element of each 5-year review.

3.1.1. Event-Based Cap Monitoring

In addition to routine monitoring, supplemental bathymetric surveys will be performed following major river flow events or construction activities that may have a significant impact on the engineered cap.

Flows for OU1 are approximated using measurements from the Appleton gauging station, which is downstream of OU1 near Appleton. Table 3-1 presents the flow rates in the Lower Fox River (LFR) taken at the Appleton gauging station (U.S. Geological Survey [USGS] Station No. 04084445 <http://waterdata.usgs.gov/nwis/>) for various return-interval flow events. These flows are taken from *Flood Frequency Characteristics of Wisconsin Streams* (Walker and Krug, 2003). These values may be updated as new information becomes available.

Table 3-1
Summary of Lower Fox River Flow Rates

Recurrence Interval	Flows at Appleton (cfs)
5 years	15,100
10 years	16,500
25 years	18,000
50 years	19,000
100 years	19,900

1. cfs = cubic feet per second

Event-based monitoring will be performed within one year following a designated river flow event. Hourly average flows exceeding the 5-year recurrence-interval flow rate listed in Table 3-1 (i.e., cfs) will be used to trigger the initial event-based bathymetric survey. If cap integrity is verified following a 5-year flow event, the next event-based cap monitoring will occur following a 50-year flow event. No additional event-based cap monitoring is recommended if cap integrity is verified following a 50-year flow event because the 50-year flow event is 95% of the 100-year flow event.

3.2. Cap Monitoring Responses

As discussed in the sections above, monitoring the cap will involve routine periodic evaluation of the cap's physical integrity as well as event-based monitoring triggered by high flows or in-river construction activities that could affect the cap's integrity.

One cap monitoring “trigger” is cap erosion, which is defined as a significant (i.e., detectable within the sensitivity of the hydrographic survey) differential between the previous hydrographic surveys of cap elevation and the most recent hydrographic survey of cap elevation. In other words, erosion is a significant decrease in the cap surface elevation over time. Note, it is important to differentiate between cap erosion and cap consolidation (see Section 3.1 for discussion on cap consolidation).

If a bathymetric survey indicates erosion of the armor layer over more than 5% of a cap certification unit (CCU), the affected cap areas will be assessed by poling and/or diver inspection. The main objective of the poling and diver inspection is to determine if the armor stone layer is intact and, if practical, whether the armor stone layer meets the minimum design thickness. If physical poling and/or diver inspection confirms the armor stone remains intact, it will be determined that the sediment substrate has settled rather than the cap has eroded. Poling will be completed with a standard poling rod (3/4 inch diameter) with gradations of 0.1 feet, used previously on the OU1 project to estimate sediment thickness. Through experience, it has been noted that the poling operator is able to distinguish sediment from gravel/stone by the feel of refusal. It is intended that poling will be completed in suspect areas to determine if gravel/stone is still present, based on pole refusal and measurements to the top of armor layer.

As stated in Section 5.1.1.3 of *Lower Fox River Operable Unit 1, 2007 Cap Placement Test Summary* (Foth, 2008), the accuracy of each hydrographic survey (based on product literature and field testing) is typically within 5 centimeter (cm) (2 inches). Errors are less for quiescent water and hard bottom conditions. For instance, OU1 hydrographic surveys are conducted with a minimum of three poling readings per survey, typically confirming that the spot readings are within 0.1 foot (3 cm or 1.2 inches). Assuming equal errors for each event ($U_A = U_B = 5 \text{ cm}$), the propagation of errors formula ($U_D = \sqrt{U_A^2 + U_B^2}$) would predict that the differential survey accuracy for a point would be within 7.1 cm (3 inches).

The cap monitoring results will be summarized in technical memoranda to be submitted to the Response Agencies following each monitoring event.

SECTION 4

4.0 Cap Maintenance

Maintenance of the engineered cap includes the following:

- Repair
- Enhancement
- Other contingency actions as necessary

4.1. Cap Maintenance Trigger

A cap maintenance response action will be triggered if the monitoring data indicate that a portion of the cap (defined as at least 5% of a CCU) no longer meets its minimum design armor stone layer thickness.

4.2. Possible Response Actions

If a cap maintenance response action is triggered, the possible response actions include:

- Repair the identified area.
- Enhance the area's armor layer.
- Enact institutional or other controls to help minimize further cap erosion.
- Remove the affected portion of the cap and the underlying contaminated sediment if an engineering evaluation determines that cap repair and/or other controls are unlikely to be effective in preventing recurrent future erosion.
- Increase the frequency of cap monitoring in the eroded area.

Additional supplemental evaluations may be performed to identify which additional response activities may be appropriate for consideration. If monitoring or other information shows a pattern of cap degradation in multiple areas, then additional response activities may be considered, including cap enhancement (e.g., application of a thicker armor stone layer or use of larger armor stone) or cap and underlying contaminated sediment removal.

5.0 Continuing Access and Permit Requirements

5.1. Real Estate Requirements

The post-2009 response work has limited real estate, easement, and access requirements. Long-term monitoring activities will be undertaken through the use of public access points.

The potential need for engineered cap maintenance will require a dedicated location for equipment launch and support, sand/armor stone storage, and related land-based placement operations.

GW Partners, LLC (GW Partners) currently owns a significant parcel (00802910303) in the town of Menasha on Little Lake Butte des Mort's (LLBdM) western shore, south of the Highway 441 bridge (sometimes referred to as the former Huber property), which was utilized as the main staging area for the OU1 remedial action (RA). Any transfer in ownership of this parcel will retain a permanent easement in the former marine access area to the benefit of the U.S., the state of Wisconsin, WTM I Company, P.H. Glatfelter, GW Partners, and their respective successors and assigns.

5.2. Permit Requirements

RAs performed under Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) must meet the substantive provisions of the applicable permitting regulations; however, federal, state, and local permits are not required (see 42 U.S.C. §9621(e)).

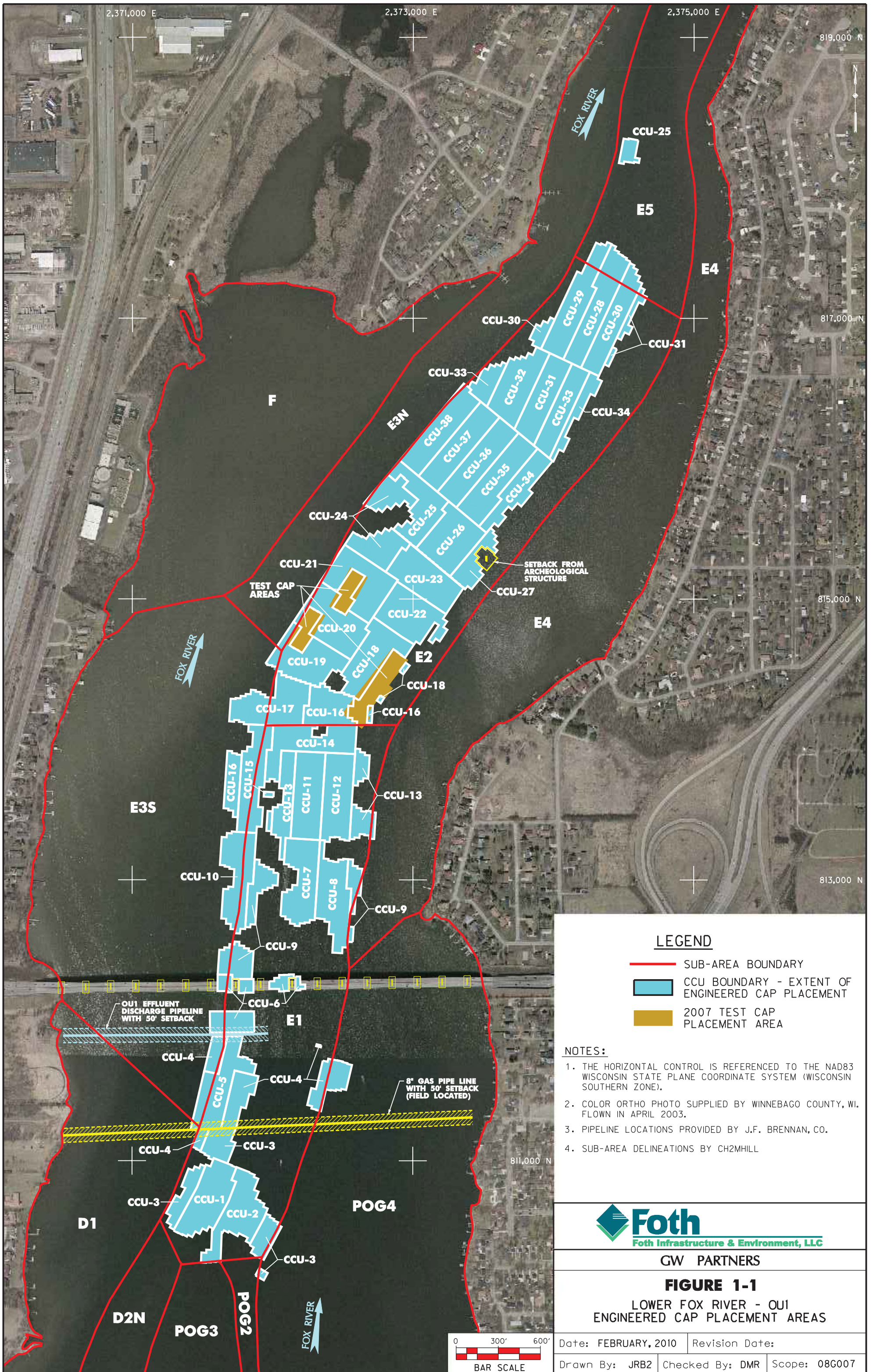
The 2002 ROD provides a list of applicable or relevant and appropriate requirements (ARAR). The ARARs were analyzed during the 2004 RA and were initially presented in Appendix F of the *Lower Fox River Operable Unit 1 - 2005 Remedial Action Work Plan* (CH2M HILL, 2005). The post-2009 RA Engineer is responsible for reviewing and updating the ARARs and obtaining approval from regulatory agencies of any identified ARARs.

SECTION 6

6.0 References

- CH2M HILL, Inc., 2005. *Lower Fox River Operable Unit 1 - 2005 Remedial Action Work Plan*. August 2005.
- Foth Infrastructure & Environment, LLC, 2008b. *Lower Fox River Operable Unit 1 - 2007 Cap Placement Test Summary*. March 2008.
- Foth Infrastructure & Environment, LLC, 2008. *Lower Fox River Operable Unit 1 - Final OU1 Cap Design*. October 2008.
- Foth Infrastructure & Environment, LLC, 2010. "Updated Consolidation Estimates for 2007 Armored Cap Placement Test Areas and 2008 OU1 Cap Areas," Memorandum to Bill Hartman, GW Partners, April 12, 2010. (Also posted as Appendix F in *Lower Fox River Operable Unit 1 - 2009 Remedial Action Summary Report*.) 2010.
- Foth Infrastructure & Environment, LLC and JF Brennan Company, 2009. *Lower Fox River Operable Unit 1 - 2008 Remedial Action Summary Report*. September 2009.
- Foth Infrastructure & Environment, LLC and JF Brennan Company, 2010. *Lower Fox River Operable Unit 1 - 2009 Remedial Action Summary Report*. April 2010.
- Foth Infrastructure & Environment, LLC and CH2M HILL, Inc., 2011. *Lower Fox River Operable Unit 1 - Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work, Appendix B, Quality Assurance Protection Plan*. April 2011.
- U.S. Army Corps of Engineers, 2004. *Engineering and Design - Bathymetric Surveying Manual*, Number EM 1110-2-1003. Revised April 2004.
- U.S. Environmental Protection Agency, 2008. *Record of Decision Amendment, Operable Unit 1, Lower Fox River and Green Bay Superfund Site*. June 2008.
- Walker, J.F. and Krug, W.R., 2003. *Flood-Frequency Characteristics of Wisconsin Streams*.

Figures



LEGEND

- SUB-AREA BOUNDARY
- CCU BOUNDARY - EXTENT OF ENGINEERED CAP PLACEMENT
- 2007 TEST CAP PLACEMENT AREA

NOTES:

1. THE HORIZONTAL CONTROL IS REFERENCED TO THE NAD83 WISCONSIN STATE PLANE COORDINATE SYSTEM (WISCONSIN SOUTHERN ZONE).
2. COLOR ORTHO PHOTO SUPPLIED BY WINNEBAGO COUNTY, WI. FLOWN IN APRIL 2003.
3. PIPELINE LOCATIONS PROVIDED BY J.F. BRENNAN, CO.
4. SUB-AREA DELINEATIONS BY CH2MHILL



GW PARTNERS

FIGURE 1-1
LOWER FOX RIVER - OUI
ENGINEERED CAP PLACEMENT AREAS

Date: FEBRUARY, 2010	Revision Date:
Drawn By: JRB2	Checked By: DMR
Scope: 08G007	



Appendix A
Bathymetric Survey Requirements

Table 1
Bathymetric Survey Requirements

Survey Classification	Special Order
Survey Equipment	<ul style="list-style-type: none"> ◆ Real-Time Kinematic Global Positioning System (RTK-GPS). ◆ Single beam 200 kHz or 455kHz multi-beam transducer (unless otherwise approved by GW Partners). ◆ For multi-beam, motion control unit to compensate for heave, pitch and roll. Heave 5cm or 5%, Roll & pitch 0.2 degrees. ◆ Laptop computer with sounding and navigation software. ◆ Survey boat with maximum 24-inch draft.
Survey Coverage	<ul style="list-style-type: none"> ◆ Full coverage, entire length and width of each cap area. ◆ 25-ft. line spacing, perpendicular to flow for single beam. For multi-beam, minimum overlap at least 95% of cap areas ◆ Cross lines at frequency of 5% of survey lines for single beam. Minimum two cross lines per day of survey generating a minimum of 100 cross check points per each 10 acres surveyed for single beam.
Equivalent Target Map Scale	1 in. = 50 ft. (Note: The mapping may also be used at various smaller scales for different purposes on the project, but the accuracy of the bathymetric survey shall be based on the map scale no smaller than 1 in. = 50 ft.)
Resultant Horizontal Accuracy	+/- 10% of water column depth.
Resultant Elevation/Depth Accuracy	0.25 ft.
Map Contour Interval	0.5 ft.
Coordinate System	Wisconsin State Plane South NAD 83
Vertical Datum	NAVD 88
Unit of Measure	U.S. survey ft.
Output Electronic Format	Compatible with ArcGIS and Microstation
Output Hard Copy Format	ANSI D-size sheets (22 x 34 in.; to allow half-scale plotting directly to 11 x 17 in. when needed).

Prepared by: REM
Checked by: DMR

Final

Lower Fox River Operable Unit 1 – Long-term Monitoring Plan

Prepared for
WTM I Company
GW Partners, LLC

June 2011



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Acronyms and Abbreviations

°C	degrees Celsius
Anchor QEA	Anchor QEA, LLC
CERCLA	Comprehensive Environmental Response, Compensation, Liability Act
CH2M HILL	CH2M HILL, Inc.
CMMP	Cap Monitoring and Maintenance Plan
COC	chain of custody
DGPS	Differential Global Positioning System
DQO	data quality objectives
EDD	electronic data deliverable
Foth	Foth Infrastructure & Environment, LLC
FR-LTMP	Long-Term Monitoring Plan for the Lower Fox River and Green Bay site
GPS	Global Positioning System
GW Partners	GW Partners, LLC
HASP	Health and Safety Plan
LFR	Lower Fox River
LIMS	Laboratory Information Management System
LLbDM	Little Lake Butte des Morts
LTM Work Group	Long-Term Monitoring Work Group
OU1	Operable Unit 1
OU1-LTMP	Lower Fox River Operable Unit 1 - Long-term Monitoring Plan
PCB	polychlorinated biphenyls
PM	Project Manager
ppm	parts per million
QA	quality assurance
QAM	Quality Assurance Manager
QAPP	Quality Assurance Project Plan
QC	quality control
RA	remedial action
RAL	remedial action levels
RAO	remedial action objectives
RD	remedial design
ROD	Record of Decision
SOP	Standard Operating Procedure
SWAC	surface weighted average concentration
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
WDNR	Wisconsin Department of Natural Resources
YOY	young of year

1.0 Project Management and Objectives

1.1. Introduction

This *Lower Fox River Operable Unit 1 – Long-term Monitoring Plan (OU1-LTMP)* presents a program for monitoring the post-remediation recovery of surface water and fish tissue in Operable Unit 1 (OU1) of the Lower Fox River (LFR). Long-term monitoring will be performed to assess progress toward achieving the remedial action objectives (RAOs) specified for OU1 in the *Record of Decision (USEPA, 2002) (ROD)* and *Record of Decision Amendment (USEPA, 2008) (ROD Amendment)* under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended.

Active remediation (dredging and capping) of LFR sediments began in OU1 in 2004 and was completed in May 2009. This *OU1-LTMP*, in conjunction with baseline monitoring conducted in 2006-2007, is designed to monitor improvements in water and fish tissue in OU1 of the LFR as a result of the OU1 sediment remedial action (RA). Monitoring of the physical integrity of capped areas is described separately in the *Lower Fox River Operable Unit 1 – Cap Monitoring and Maintenance Plan (Foth and CH2M HILL, 2011) (CMMP)*.

Although this OU1-LTMP relates to OU1, a separate *Long-Term Monitoring Plan* for the LFR and Green Bay site (Anchor QEA et al., 2009) (*FR-LTMP*) has already been submitted for final approval by the U.S. Environmental Protection Agency (USEPA) and the Wisconsin Department of Natural Resources (WDNR) (collectively, the “Response Agencies”). The *FR-LTMP* was prepared pursuant to an Administrative Order on Consent for Remedial Design (RD) for OUs 2 to 5 originally executed in March 2004 and amended in October 2007. The requirement to implement the *FR-LTMP* in OUs 2 to 5 is set forth in the Response Agency’s 2007 Administrative Order for RA (“Order”) and the accompanying Phase 2B Scope of Work. The respondents to the Order include Appleton Papers Inc., CBC Coating, Inc. (formerly known as Riverside Paper Corporation), Georgia-Pacific Consumer Products, LP (formerly known as Fort James Operating Company, Inc.), Menasha Corporation, NCR Corporation, P.H. Glatfelter Company, U.S. Paper Mills Corp, and WTM I Company (formerly known as Wisconsin Tissue Mills, Inc.) (collectively, the “Respondents”).

In an effort to develop a coordinated and cost-effective long-term monitoring program that is consistent with the intent of applicable *RODs*, representatives and consultants from certain Respondents and the Response Agencies formed a Long-Term Monitoring Work Group (LTM Work Group). From October 2004 to May 2009, the LTM Work Group held periodic meetings and conference calls to discuss monitoring objectives, field and analytical methods, data evaluation tools and techniques, and the design and implementation of the baseline monitoring program. Draft notes from these meetings are maintained in the

Response Agency project files. This LTM Work Group may continue to meet on a mutually-agreeable schedule as needed to implement the *FR-LTMP*. It is expected that meetings will be held to discuss the following:

- Adaptive management of field sampling, laboratory analysis, and data validation procedures;
- Review and evaluation of long-term water and fish tissue analytical results as they become available; and
- Ongoing assessment of the effects of sediment remediation, and progress toward achieving RAOs in the LFR and Green Bay.

This *OUI-LTMP* has been prepared in such a way as to assure consistency with the *FR-LTMP*, which is incorporated herein by reference as necessary. Specifically, this *OUI-LTMP* sets forth a structure for collecting water and biota samples in OU1 and Lake Winnebago – and to analyze those samples – in a fashion consistent with quality assurance/quality control (QA/QC) objectives set forth in the *FR-LTMP*. Thereafter, OU1 data will be analyzed pursuant to applicable provisions in the *FR-LTMP* in order to assure a complete river-wide assessment of RAOs when combined with work by other parties in other segments of the site. Cross references to applicable portions of the *FR-LTMP* can be found throughout this *OUI-LTMP*.

1.2. Project Organization

This section describes the project organization, responsibilities, authorities, and lines of communication. The roles and responsibilities of key project personnel are described below.

1.2.1. Respondent Technical Team

1.2.1.1. Respondent Team Project Coordinator

The duties of the Respondent Team Project Coordinator include:

- Administration and management of long-term monitoring activities, including schedule and budget control.
- Authorization and coordination of subcontractors.
- Authority to stop work based on QC issues, health and safety issues, or other deficiencies that may compromise the safety of the field crew or the integrity of the long-term monitoring program.
- Ongoing communication with USEPA and WDNR regarding project status, problems encountered and recommended solutions, deviations from scope of work, and other related issues.
- Coordination and resolution of key technical issues with Respondent and Response Agency Teams.

- Coordinate document production.
- Prepare and submit progress reports.

1.2.1.2. Respondent Team Project Manager

The duties of the Respondent Team Project Manager (PM) include:

- Management of preparation of *OUI-LTMP* and data reports.
- Coordination and trouble-shooting of field activities, including recommendations for scope modifications as needed based on field conditions.
- Review and assessment of corrective action procedures in consultation with Project Coordinator.
- Oversight of water and fish tissue quality data analysis and interpretation.
- Assignment of fish compositing groups in consultation with WDNR and USEPA PMs.

1.2.1.3. Field Quality Assurance Manager

The duties of the Field Quality Assurance Manager (QAM) include:

- Auditing of field activities to ensure compliance with *OUI-LTMP* requirements.
- Review of all field documentation for consistency, accuracy, and completeness, and to ensure any procedural modifications are appropriately documented and communicated.
- Reporting of deficiencies in field procedures or documentation to the PM to initiate corrective action procedures.

1.2.1.4. Data Quality Assurance Manager

The duties of the Analytical QAM include:

- Direct the review of QA plans and procedures.
- Schedule and coordinate the analytical laboratories and data validators.
- Oversee the tracking of samples and data from the time of field collection through laboratory reporting and database entry.
- Review laboratory data for compliance with *OUI-LTMP* requirements.

1.2.1.5. Long-Term Monitoring Field Supervisors

The duties of the Field Supervisors include:

- On-site coordination and direction of field activities and personnel.
- Coordination of field and laboratory schedules.
- Oversight of field activities to ensure they are conducted in accordance with this *OUI-LTMP* and the *Lower Fox River Operable Unit 1 and Lake Winnebago Long-term Monitoring– Health and Safety Plan* (Foth, 2011a) (*HASP*).

- Authority to stop work based on QC issues, health and safety issues, or other deficiencies that may compromise the safety of the field crew or the integrity of the long-term monitoring program.
- Communication of field conditions and progress, problems encountered, and recommended scope modifications (if needed) to the project team.
- Oversee sampling subcontractors.

1.2.1.6. Corporate Health and Safety Manager

The duties of the Corporate Health and Safety Manager include:

- Remote supervision of field activities to ensure adherence to the *HASP*.
- Final authority on *HASP* issues and approval of significant modifications to the *HASP*, if needed, based on changed field conditions.

1.2.2. Subconsultants/Subcontractors

All subconsultants and subcontractors will be identified to the Response Agencies for review and approval prior to the beginning of field work.

1.2.2.1. Analytical Laboratory Project Managers

The duties of the Analytical Laboratory PMs include:

- Oversee laboratory QA/QC requirements for the project.
- Convey project requirements and objectives to laboratory staff and analysts.
- Provide technical guidance to the Consultant Team.

1.2.2.2. Laboratory Quality Assurance Managers

The duties of the Laboratory QAMs include:

- Evaluate compliance with laboratory standards of practice and ensure that systems are in place to provide QA/QC as defined in this *OUI-LTMP*.
- Initiate and oversee audits of corrective action procedures.
- Perform laboratory data quality reviews.
- Maintain laboratory documentation.

1.2.2.3. Data Quality Validator

The duties of the Data Quality Validator include:

- Provide independent third-party data validation at the following frequency:
 - One hundred percent of data from each media sampled during the first day of sampling will be validated during each monitoring event, and when a substantive modification is made to the sampling method or analytical laboratory.

- If initial validation is acceptable, a minimum of 10% of each media will continue to be validated on an ongoing basis.
- Evaluate compliance with laboratory QA/QC criteria and other project requirements as defined in this *OUI-LTMP*.
- Qualification of analytical data as needed to identify noncompliance with QA/QC criteria and assessment of acceptability of data to fulfill project objectives.

1.2.3. Wisconsin Department of Natural Resources

As one of the lead Response Agencies, WDNR and its consultants will observe, review, and provide regulatory and technical comments to ensure the long-term monitoring program fulfills the requirements of the *ROD* and provides data necessary to evaluate attainment of RAOs in the LFR. WDNR and USEPA have sole approval authority over any modifications to this *OUI-LTMP*, including modifications to the frequency or intensity of sampling and the need for corrective action.

1.2.3.1. WDNR Project Coordinator

The duties of the WDNR Project Coordinator include:

- Review all project plans and data reports, and provide input to development of overall project strategies and technical approaches.
- Indicate the appropriate time to evaluate fish consumption advisories.
- Ensure *OUI-LTMP* meets the requirements of the *ROD*, and assist Consultant Team and WDNR staff in interpreting the intent of the *ROD*.
- Final review and approval of *OUI-LTMP* and data reports.
- Ongoing communication with Consultant Team Project Coordinator and PM.

1.2.3.2. WDNR Project Manager

The duties of the WDNR PM include:

- Scheduling and coordination of WDNR reviews and approvals of *OUI-LTMP* and data reports.
- Coordination of technical resources for WDNR and its consultants, and application of these resources to help support and design the implementation of the *OUI-LTMP*.
- Assist WDNR Project Coordinator with project administrative duties.
- Review progress reports detailing work accomplished.

1.2.3.3. WDNR Quality Assurance Manager

The duties of the WDNR QAM include:

- Review *OUI-LTMP* for technical accuracy and completeness.
- Provide technical assistance to the WDNR PM and Project Coordinator regarding analytical methods and QC procedures.
- Review of data validation results, data quality, and the need for and scope of corrective actions, if any.

1.2.4. U.S. Environmental Protection Agency

As one of the lead Response Agencies, USEPA and its consultants will observe, review, and provide regulatory and technical comments to ensure the long-term monitoring program fulfills the requirements of the *ROD* and provides data necessary to evaluate attainment of RAOs in the LFR. USEPA and WDNR have sole approval authority over any modifications to this *OUI-LTMP*, including modifications to the frequency or intensity of sampling and the need for corrective action.

1.2.4.1. USEPA Remedial Project Manager

The duties of the USEPA Remedial PM include:

- Review all project plans and data reports, and provide input to development of overall project strategies and technical approaches.
- Ensure *OUI-LTMP* meets the requirements of the *ROD*.
- Final review and approval of *OUI-LTMP* and data reports.
- Ongoing communication with Consultant Team Project Coordinator and PM.

1.2.4.2. USEPA Quality Assurance Manager

The duties of the USEPA QAM include:

- Review *OUI-LTMP* for technical accuracy and completeness.
- Provide technical assistance to the USEPA Remedial PM.

1.3. Communication Plan

1.3.1. Monthly Progress Reports

During periods of long-term monitoring activity (i.e., data collection, evaluation, and reporting), the Respondent Team Project Coordinator will provide written monthly progress reports to the Response Agencies by the 10th day of every month. These progress reports will describe the status of long-term monitoring activities.

1.3.2. Monthly Meetings

During periods of long-term monitoring activity, the Project Coordinators will hold monthly progress report meetings or telephone conferences unless it is deemed unnecessary by the Response Agencies. Such meetings will begin one to two months prior to the beginning of field work. Briefings on the status of long-term monitoring activities and preliminary results, as available, will be provided during the meetings.

1.3.3. Electronic Data Transmittal

Technical documents, reports, data, comments, schedules, meeting notices, and general project communications related to long-term monitoring activities will be distributed electronically to designated members and consultants of the Response Agencies. Documents that are too large to send via email will be posted on a shared access website. In such cases, an e-mail notification will be sent to the same persons with information on how to access those documents. Electronic copies (CD-ROM) of laboratory analytical data packages (in pdf format) will be provided to the Response Agencies upon receipt from the laboratory. Once the data have been checked and verified, they will also be provided to the Response Agencies in an electronic format that can be loaded into a database for relational queries and numerical analysis.

1.3.4. Hard Copy Data Transmittal

For documents requiring hard copy distribution, one copy will be sent to each of the following Response Agency personnel:

- USEPA Remedial PM
- WDNR Project Coordinator
- WDNR PM
- WDNR QAM
- WDNR Oversight Consultant PM
- Other personnel, as appropriate

A hard copy data transmittal summarizing the monitoring year of data collection for water quality and fish tissue will be distributed approximately three months following completion of all necessary data collection and receipt of adequate data from the laboratories.

1.3.5. Notification Procedures

Requirements for periodic progress reports and meetings between the Respondent Team, WDNR, and USEPA are described in Sections 1.3.1 and 1.3.2. At least 15 days of notice shall be given to the WDNR Project Coordinator and the USEPA Remedial PM prior to beginning sampling.

1.3.6. Modifications to the Long-term Monitoring Plan

Significant suggested modifications to the *OU1-LTMP* may be provided to USEPA and WDNR for review and approval via revisions to the *OU1-LTMP* or Addenda to the *OU1-LTMP*. Modifications that will require USEPA and WDNR approval include the following:

- Major changes/revisions to the monitoring design.
- Major changes/revisions to the sampling or analytical methods.
- Major changes to project team personnel.
- Major changes/revisions to the statistical procedures for data quality assessment presented in Section 4.

Modifications may be required as a result of unexpected or changed field conditions; extreme weather or hydrologic events; or due to the results of ongoing discussions of monitoring strategies, techniques, and procedures during the CERCLA 5-year reviews.

1.4. Long-term Monitoring Objectives

Long-term monitoring data will be collected to evaluate progress toward achieving the RAOs of reduced risk to humans and the environment, as presented in the *ROD*. The data collection effort is focused on water and fish tissue. Water is a media of concern as it represents the main pathway transporting polychlorinated biphenyls (PCB) from the site downstream. Fish are the medium of exposure for bioaccumulation risk in higher-level organisms, including humans, mammals, and birds, as well as the fish themselves.

Additional information relevant to OU1 can be found in Section 1.4 of the *FR-LTMP*.

1.5. Background Information

Additional background information relevant to OU1, including a discussion of water and fish tissue quality, can be found in Section 1.5 of the *FR-LTMP*.

1.6. Project Description

The long-term monitoring program is designed to assess long-term (i.e., decadal) recovery trends and conditions in water and fish tissue in OU1 following the completion of RA.

1.6.1. Benchmarks and Criteria

1.6.1.1. Remedial Action Levels

The remedial action levels (RAL) for the LFR is:

- Remediation of sediments with PCB concentrations above 1 parts per million (ppm).

If post-dredge residual PCB concentrations remain above 1 ppm following the RA, the contingent cleanup level becomes:

- Attainment of surface weighted average concentration (SWAC) in sediments of 0.25 ppm in OU1.

Through achievement of the RAL, or SWAC, the RA is expected to improve sediment quality conditions in the LFR. In response, it is expected that first water and then fish tissue PCB concentrations will decline. Measuring the rate and magnitude of this decline in water and fish tissue, over a representative set of stations, seasons, and species, is a key objective of the *OU1-LTMP*.

1.6.1.2. SWAC Reduction Criteria

As a measure of remedy effectiveness, the Response Agencies expect that SWAC reductions achieved in sediments by the RA will reduce PCB concentrations in the water column, young of year (YOY) forage fish, and eventually adult fish. SWAC reduction criteria will, therefore, be used in the evaluation of water and YOY fish tissue monitoring data.

A summary of background criteria relevant to OU1, as well as ecological and human health tissue goals, can be found in Section 1.6 of the *FR-LTMP*.

1.6.2. Equipment and Personnel Requirements

1.6.2.1. Equipment Requirements

Equipment required for water quality monitoring activities include:

- Sampling boat with echo sounder.
- Water quality monitoring probe (temperature and turbidity).
- Water quality field forms.
- Sampling pump (peristaltic), tubing, and accessories.
- Global Positioning System (GPS) unit with differential GPS (DGPS) software.
- Safety and personal protective equipment (per *HASP*).

Equipment required for fish sampling activities include:

- Sampling boat with echo sounder.
- Support boat.
- Electrofishing equipment.
- Other fish collection equipment as needed (e.g., rod/reel, nets, trawls).
- Fish collection field forms.
- Scale and ruler to size fish.

- GPS.
- Safety and personal protective equipment (per *HASP*).

The field crew will need to obtain a fish collection permit from WDNR prior to beginning fish sampling activities.

1.6.2.2. Personnel Requirements

Field Supervisors will be experienced in conducting water and/or fish sampling activities as necessary to implement the tasks required in this *OUI-LTMP* in accordance with the field and laboratory QA requirements of this *OUI-LTMP*. Field personnel will be trained in the safe and proper use of the above-listed equipment. During sediment sampling activities, all field personnel will have completed 40-hour Hazwoper training with up-to-date, annual 8-hour refresher training. This training is recommended, although not required, for fish and water sampling activities.

The project team will include a fisheries biologist, a database manager, and a chemist experienced in PCB congener analysis and evaluation. (Chemist may be employed by analytical laboratory.) For any given fish sampling event, the Respondents will consult with a WDNR fish biologist to evaluate the appropriate size of YOY species, as the YOY in some events may be larger than the target range noted in the *FR-LTMP*. The WDNR fish biologist will advise on the appropriate target range for any given event. Subcontract analytical laboratories must be qualified to perform the required analyses (see Section 2.6 of the *FR-LTMP*) at the required levels of QA/QC (see Section 2.7 of the *FR-LTMP*) and will be subject to review and approval by the Response Agencies. The proposed laboratories must be approved by USEPA, and laboratory qualifications and methods must be provided to USEPA no later than 15 days prior to receiving samples.

1.6.3. Preliminary Long-Term Monitoring Schedule

An overview of the OU1 projected schedule for long-term monitoring activities is presented on Figure 1-1 (see Appendix A-1). Figure 1-2 illustrates how the OU1 long-term monitoring activities relate to long-term monitoring activities anticipated in the other LFR OUs (see Appendix A-1).

The key concepts of the long-term monitoring schedule include the following:

- Remediation of OU1 began in 2004 and was completed in May 2009.
- Post-construction monitoring of water and fish in Lake Winnebago and OU1 will begin in 2010, with water monitoring from April through November and fish sampling from August 15 through September 15.
- Initially, the monitoring will be scheduled on 5-year intervals. The monitoring is planned to occur 2 years prior to the scheduled CERCLA 5-year reviews (i.e., the next 5-year review is scheduled to occur in 2014 with the initial 5-year recurring sampling event scheduled for two years earlier in 2012). This provides for periodic reassessment of the scope of the monitoring program in light of progress achieved toward environmental recovery. Based on the results of the 5-year review, the path forward could include: 1) continued monitoring at 5-year intervals; 2) continued monitoring at

less frequent intervals (e.g., 10-year intervals); 3) continued monitoring of fish and phasing out of other media because progress is being made toward risk-reduction goals; and 4) termination of monitoring once risk-reduction goals have been achieved.

- During each designated monitoring year, water sampling will be conducted on a monthly basis from April through November. Fish sampling will occur between August 15 and September 15. Sample collection activities may be extended an additional month (through October 15) if necessary to fill data gaps. In addition, if the walleye catch is found to be deficient and bass are substituted for the human health index species, bass fishing will be conducted in June of the following year to be consistent with the bass collection schedule used in the baseline monitoring program.
- For a description of the cap monitoring and maintenance events for OU1, refer to the *CMMP* (Foth and CH2MHILL, 2011).

1.7. Data Quality Objectives

A detailed discussion of data quality objectives relevant to OU1 can be found in Section 1.7 of the *FR-LTMP*.

1.8. Documentation and Records

Complete and accurate records of sample collection, sample analysis, QA, data corrections, and data analysis will be maintained. Integrity of this information must be maintained throughout all data transfers and manipulations. Procedures used to generate, transform, and validate data are critical for effective data management. A summary of the data management procedures is provided below.

1.8.1. Data Tracking

When samples are processed and the appropriate sample identification is given, the sample tracking process will be initiated. Every sample will be tracked individually from its collection through receipt of the analytical results and final validation. The date collected, laboratory receipt, data receipt, status of data validation, and status of database entry for each sample will be tracked and recorded in a sample tracking database.

1.8.2. Electronic Data Management

Technical data, including field observations, laboratory analytical results, and data validation results, will be stored in a relational database. The Database Administrator will be responsible for uploading sample collection data into the database under the supervision of the Data QAM. Data received from analytical labs in electronic data deliverable (EDD) format will be checked for completeness by comparing them to the sample collection forms before appending them into the database. At this point, the sample collection forms before appending them into the database. At this point, the analytical data will be marked as “unvalidated” but will be available for preliminary queries. Data checks will be completed, including a comparison of the electronic data against the hard copy reports received from the laboratory. Finally, the Database Administrator will upload validation qualifiers as they

are received from the Data Validator. Validation qualifiers will be checked, and the data will be marked as “validated.”

In addition to analytical data, the database will be used to organize field observation data, and field parameter measurements. These data will be transcribed by field personnel into electronic files (spreadsheets), where they will be uploaded into the database.

1.8.3. Evidence File

The final evidence file will be the central repository for all documents that constitute evidence relevant to sampling and analysis activities. The Respondent Team Project Coordinator, or his/her designee, will be the custodian of the evidence files and will maintain the contents of the evidence files for the long-term monitoring program, including all relevant records, reports, field log books, field forms, pictures, contractor reports, and data reviews in a secured, limited access area.

All records will be kept until the monitoring program is completed. As necessary, records may be transferred to an offsite records storage facility which provides secure, access-controlled storage. Raw analytical laboratory data, including chain of custody (COC) forms, analytical bench sheets, instrument printouts and chromatograms, certificates of analyses, and QA/QC report summaries will be stored in electronic format (pdf files). The subcontract laboratory will retain its raw analytical data and QA data for a minimum of 10 years after completion of a given monitoring event. The Response Agencies will be notified prior to the disposal of any laboratory data.

SECTION 2

2.0 Data Generation and Acquisition

This section presents the anticipated sampling strategies to be employed during each monitoring event, including sample numbers, monitoring locations, sampling schedules, and field and laboratory procedures. These sampling strategies may be adjusted or modified through adaptive management and the CERCLA 5-year review process. For example, environmental media or fish species may be added, reduced, or discontinued based on an ongoing evaluation of progress toward risk reduction goals.

2.1. Water Quality Monitoring Plan

2.1.1. Number of Water Samples

Monthly water samples will be collected at all monitoring stations during the eight warm-weather months (April through November) during each monitoring year (eight samples at each of ten stations). Sampling may not always be possible at all stations due to unforeseen field conditions; therefore, the “completeness” objective for the water quality sampling program will be a minimum of seven out of eight possible sampling events at each station.

2.1.2. Water Quality Monitoring Stations

Water monitoring stations are sited near the downstream boundaries of Lake Winnebago (upstream background) and OU1 such that the net PCB contribution from background and OU1, and the effectiveness of the OU1 RA, can be evaluated.

Water column samples will be collected and analyzed at one reference location in OU1. The stations recommended for the long-term monitoring program are identical to that which were sampled during the baseline monitoring program.

The water monitoring station in OU1 (downstream of Little Lake Butte des Morts [LLBdM] and above the Upper [first] Appleton Dam) is shown on the *FR-LTMP*'s Figure 2-3 (see Appendix A-2). The water monitoring station in Lake Winnebago is shown on the *FR-LTMP*'s Figure 2-2 (see Appendix A-2). Note that the text on these two figures regarding June sampling were added after the figures were taken from the *FR-LTMP*.

2.1.3. Water Quality Monitoring Schedule

Sampling will be performed on a monthly basis from April through November in a given monitoring year (eight sampling events total). Sampling will be “systematic” in design, to provide representative and unbiased coverage. Specific runoff events will not be targeted but a random and representative range of flows is expected to be captured during the course of the monitoring program. Water sampling will be scheduled during the first 2 weeks of each month. The river water samples will be collected in order from upstream to downstream over as short a period of time as practical, typically 1 day.

2.1.4. Water Quality Sample Identification

Water quality samples will be coded as follows (see the *FR-LTMP's* Table 2-1 in Appendix A-2):

- AAAA-YY-MMDD

where “AAAA” is a 3 to 4 letter code that identifies OU1; “YY” is the two-digit year (e.g., -10 for 2010, etc.); and “MMDD” is the month and day of the sample collection. For example, “OU 1-10-0415” is a water sample from the OU1 station collected on April 15, 2010. This sample identification scheme is designed to sort alphabetically in time and space.

Field replicates will be coded in the initial letter string (e.g., OU1D) in order to preserve the time stamp at the end of the name. The code for field rinsate blanks will replace the OU designation at the beginning of the sample code and will retain the time stamp. For peristaltic pump and Niskin bottle rinsate blanks, respectively, the codes are as follows:

- RBP-YY-MMDD
- RBN-YY-MMDD

Field replicates and field rinsate blanks are discussed further in Section 2.7.1 of the *FR-LTMP*.

Each of the water quality samples will be composited from six separate aliquots from different distances and depths along the channel transect, as described below (Section 2.1.5.1 of the *FR-LTMP*). Each aliquot will be labeled with a consecutive letter (A, B, C, D, E, and F) progressing from top to bottom and west to east, in the following format:

- AAAA-YY-MMDD-B

The six aliquots will be submitted separately to the analytical laboratory for compositing.

2.1.5. Water Quality Sampling Procedures

Water quality sampling procedures are described below.

2.1.5.1. Location Control

Water quality monitoring stations will be located to within a target accuracy of 2 meters using a DGPS calibrated to known shoreline benchmarks before and after each sampling transect. Water depths will be determined using a lead line, calibrated poling rod, or a calibrated echo sounder recorded to the nearest 0.1 foot. Project-specific location control requirements, calibration protocols, and quality indicators are described in the *Location Control Standard Operating Procedure (SOP)*, which can be found in Appendix B of the *Lower Fox River Operable Unit 1 and Lake Winnebago Long-term Monitoring – Quality Assurance Project Plan* (Foth, 2011b) (*QAPP*).

2.1.5.2. “Quarter Point” Sampling Procedures

Area-weighted composite samples will be collected on specified transects to obtain representative water concentrations averaged over the cross-section of flow. Water quality sampling transects are located to the extent possible in relatively straight reaches with

simple, U-shaped cross-sections, avoiding areas with shallow benches or protrusions that could cause eddies, wind waves, or other hydraulic complications. It is assumed that the flow in these sections is relatively uniform and well mixed. In a uniform, well-mixed cross-section, an area-weighted sampling design provides a reasonable approximation of a flow-weighted design. Representative transects of OU1 will be sampled in general accordance with U.S. Geological Survey (USGS) “quarter point” sampling procedures. The channel cross-sections are divided into 3 equal areas based on bathymetric data. Water sampling stations are positioned at the midpoint of each of the three flow areas; the coordinates of these stations are listed in the *FR-LTMP’s* Table 2-2 (see Appendix A-2). Discrete water samples will be collected at 0.2 and 0.8 times the depth of the water column.

2.1.5.3. Sample Compositing

Discrete water subsamples will be collected at each of the six “quarter point” locations and depths (i.e., two depths x three stations = six subsamples for each transect), then shipped to the analytical laboratory where the compositing will be performed under clean laboratory conditions. A 1-liter bottle will be collected at each of the six subsampling locations/depths (six bottles total) and a second, redundant set of bottles will be collected and held in refrigerated storage near the sampling site until it has been determined that the original bottle set arrived safely at the analytical laboratory.

2.1.5.4. Field Equipment

Samples in the LFR will be collected using a peristaltic pump with expendable tubing (i.e., used only once for each transect).

2.1.5.5. Field Parameters

The following field parameters will be measured at each of the “quarter-point” locations on each sampling transect:

- Temperature
- Turbidity

These field parameters will be monitored in continuous casts from water surface to river bed to assess water column stratification and spatial heterogeneity in each cross section of the river or bay at the time of sampling.

2.2. Fish Tissue Monitoring Plan

2.2.1. Number of Fish Samples

Optimum Completeness Goal. The following number of fish samples will be targeted at each sampling station designated for that specific fish species:

- Walleye (human health index species): 15 individual fish.
- Carp: 35 individual fish, to be composited into seven groups of five fish each.
- Gizzard shad (YOY forage fish): 175 individual fish, to be composited into seven groups of 25 fish each.

Minimum Completeness Goal. Reasonable efforts will be made to obtain the optimum numbers of target species in OU1, according to the field sampling decision framework detailed in Section 3.4.2 of the *FR-LTMP* and shown on the *FR-LTMP's* Figure 3-1 (see Appendix A-2). However, if sufficient numbers of fish cannot be collected at certain sampling stations, after consideration of alternate fish sizes and other contingency actions to improve the harvest, the following minimum numbers of fish will be collected to satisfy project completeness goals, while still providing a reasonable level of statistical power:

- Walleye (human health index species): Minimum of eight individual fish.
- Carp: Minimum of seven individual fish, to be analyzed separately (no compositing).
- Gizzard shad (YOY forage fish): Minimum of 25 individual fish, to be composited into five groups of five fish each.

2.2.2. Fish Monitoring Stations

The fish monitoring stations for Lake Winnebago and LLBdM (OU1) are shown on *FR-LTMP's* Figure 2-3 (see Appendix A-2).

Recommended fish collection sites, based on the catches obtained during the baseline monitoring program, are provided on this figure. In OU1, there are three recommended stations for walleye, three for small mouth bass, three for drum, five for carp, and one for gizzard shad. In Lake Winnebago, there is one recommended station for walleye, three recommended stations for drum, and two for carp and gizzard shad (assuming fall collection).

Fishing locations may be adjusted as needed in the field based on species availability, habitat, river or bay conditions, seasonal migration patterns, or other field conditions. Because of these variables and habitat preferences, it is assumed that different species will be collected from different parts of OU1. However, fish have free access within the entire OU1 or subunit that they represent; therefore, they should be representative of the general environmental conditions in OU1. Fish collection sites are also located in Lake Winnebago. Fish are collected from these sites to obtain background information on PCB concentrations.

2.2.3. Fish Collection Schedule

Fish will be collected in late summer/early fall, between August 15 and September 15. Every fish sampling event will target this same seasonal sampling window to control for seasonal variability in the monitoring data. Sample collection activities may be extended an additional month (through October 15) if necessary to fill data gaps.

2.2.4. Target Fish Species and Size Ranges

Target fish species were selected based on the following criteria:

- Presence of fish consumption advisories (human health index species).
- Popular recreational fishery (human health index species).
- Key species evaluated in Human Health or Ecological Risk Assessments (RETEC, 2002).

- Common food source for upper-level animals, e.g., fish-eating mammals and birds (ecological index species).
- Availability in the LFR based on recommendations from state fish biologists and experience during baseline monitoring program.

Target fish species are summarized in the *FR-LTMP's* Table 2-3 (see Appendix A-2). A total of five fish species were analyzed during the baseline monitoring program to provide greater flexibility during long-term monitoring. The primary species that will be targeted during the long-term monitoring program are:

- Walleye (human health index).
- Carp (ecological index).
- Gizzard Shad (YOY forage fish).

The following secondary species may be considered if the corresponding primary species are difficult to obtain or unavailable during a particular monitoring event:

- Smallmouth Bass (human health index).
- Drum (ecological index).

It is recommended that all secondary species be retained and archived during field collection activities until the entire catch is evaluated and it can be determined that the completeness objectives for the primary species are fulfilled.

In addition, substitute human health species may be selected for monitoring after walleye have achieved their monitoring goals, to better support the evaluation of fish consumption advisories (see Section 1.7.5.2 of the *FR-LTMP*). WDNR and USEPA will review the long-term monitoring record as well as the state fish advisory database to determine whether one or more human health index species should be substituted for walleye in the monitoring program to further support fish consumption advisory evaluations. The substitute fish species will be selected by the Response Agencies and Respondents prior to modifying the target fish species and size ranges.

2.2.5. Fish Tissue Sample Identification

With the exception of gizzard shad, each individual fish will be given a unique sample ID, as follows (see the *FR-LTMP's* Table 2-4 in Appendix A):

- LLLL-YY-SP-NN

where [LLLL] is the location code describing OU1, [YY] is the two-digit year (i.e., 08 is 2008), [SP] is the species identification code (WA = walleye, SB = smallmouth bass, CA = carp, and DR = drum), and [NN] is a sequential number assigned to each individual fish in a given OU. For example, OU 1-10-WA-23 is the 23rd walleye collected in OU1 during a monitoring event in 2010. Gizzard shad from a particular sampling location will be bagged in groups of 25 fish or less, and each bag of fish will be assigned a sample number in accordance with this convention (with the species code GS = gizzard shad).

Composite sample IDs will follow a similar convention as the IDs assigned to individual fish, except the last two characters will be changed to identify a composite sample:

- LLLL-YY-SP-C#

where C# represents composite samples C1, C2, C3, etc. These IDs will be assigned in the laboratory where the compositing will be performed at the direction of the Respondent PM, or his/her designee, in consultation with the Response Agencies.

Field replicate samples will be coded in the initial letter string (e.g., OUID or OU2BD).

2.2.6. Fish Sampling and Preparation Methods

Fish sampling procedures are described below.

2.2.6.1. Location Control

The beginning, end, and turning points of fishing transects will be located to within a target accuracy of 10 meters using a DGPS as well as references to shoreline landmarks. Project-specific location control requirements for fish sampling activities are described in the *Location Control SOP* (Foth, 2011b). Because fish migrate freely within OU1, location control requirements are less stringent for fish collection.

2.2.6.2. Fish Sampling Methods

Primary and secondary target fish species are listed in Section 2.2.4. It is recommended that all secondary species be retained and archived during field collection activities until the entire catch is evaluated and it can be determined that the completeness objectives for the primary species are fulfilled. The following fish collection methods are recommended based on the experience gained during the baseline monitoring program (see the *FR-LTMP's* Table 2-5 in Appendix A-2):

- Electrofishing (all species).
- Trawls (all species).
- Seine nets (gizzard shad).
- Rod and reel (bass and potentially other species).

Rod and reel techniques were found to be productive for bass fishing in June but may also be productive for other species during the August/September timeframe. Fyke nets and set lines were not generally productive. Methods may be modified as needed based on field conditions at the time of sampling.

The coordinates, time, and water depth of the starting point, ending point, and turning points of each fishing run will be recording in field logs. Start and end times will also be marked on the hard copy printout from the echosounder. The coordinates, water depth, and time of deployment and recovery will be logged for stationary equipment, if used, such as set lines, fixed nets, etc.

The following data will be recorded for each individual fish (with the exception of gizzard shad):

- Unique individual sample ID.
- Time of collection.
- Length.
- Weight.
- Abnormalities (i.e., tumors, lesions).

Because of their small size and large numbers, YOY gizzard shad will not be logged individually. All gizzard shad fingerlings from a particular fishing location will be combined in a plastic bag and forwarded to the analytical lab for compositing. Fish collection, handling, and preservation techniques are provided in the *Fish Collection SOP* (Foth, 2011b).

2.2.6.3. Compositing

The Respondent PM or his/her designee, in consultation with the Response Agencies, will select the fish to be used for composite samples and will direct the laboratory in their preparation. See the *Biological Tissue and Plant Preparation SOP* for further details on laboratory methods of preparing composite samples. This lab SOP can be found in Appendix C of the *QAPP* (Foth, 2011b).

Carp and drum (ecological index species) and gizzard shad (YOY forage fish species) will be analyzed as composite samples. Carp composites will consist of seven composite samples with five individuals in each composite sample (i.e., 35 fish total), drum composites will consist of five composite samples with five individuals in each composite sample (i.e., 25 fish total), and gizzard shad composites will consist of seven composite samples with 25 individuals in each composite sample (i.e., 175 fish total). To the extent possible, fish will be collected that are representative of the size classes listed in the *FR-LTMP's* Table 2-3 (see Appendix A-2). Ideally, composites would be prepared for each of the five 2-inch classes in the target length window. However, some compositing classes may be represented by two or more samples, whereas other classes may contain no samples, depending on the catch.

The individual fish will be archived (frozen) until the fishing season is completed and the entire catch may be evaluated. Then the fish will be assigned to compositing groups. Similarly sized individuals (within 2-inch size classes, if possible) will be grouped together for compositing. To the extent possible, gizzard shad composites will be prepared using fish obtained from a single fishing site. Carp and drum composites, on the other hand, may be combined from multiple fishing sites; the primary consideration for these larger and older fish is preparing composites based on a relatively narrow range of fish lengths. In no case will fish be composited across OUs (e.g., Lake Winnebago and OU1).

2.2.6.4. Fish Tissue Preparation

Walleye (and bass, if analyzed) will be prepared as skin-on fillets. These human health species will be analyzed on an individual basis to be consistent with methods used in the State Fish Consumption Advisory Program. Carp and drum (ecological species) and gizzard shad will be analyzed as composite samples of whole fish (see *Biological Tissue and Plant Preparation* SOP [Foth, 2011b]).

2.2.6.5. Tissue Archiving

Aliquots of all homogenized fish tissue samples (including both individual and composited samples) will be set aside and archived (frozen) for possible future analysis. Fish tissue samples will be archived for a minimum of one CERCLA 5-year review cycle. The status of the samples will be considered during the 5-year review process, at which time the samples may be designated for continued archiving over another review cycle, or else discarded.

For human health species (i.e., walleye or bass), one fillet will be analyzed and the other side will be archived. For ecological species (i.e., carp and drum), each fish will be individually homogenized, then equal masses of tissue will be drawn from the individual samples to prepare the composite sample. The remainder of the individual samples will be archived for possible future analysis in case it is later determined that analysis of individual fish would be useful. For gizzard shad, an aliquot of each composited and homogenized sample will be set aside and archived. Fish tissue samples from incidental fish species (i.e., fish species that are not listed as one of the five target species) that are caught during the fish sampling will be archived to support future determinations of fish consumption advisories.

2.3. Sample Handling and Custody Requirements

The following sections describe the procedures for sample handling, preservation, transportation, and storage (see *Shipping and Packaging of Non-Hazardous Samples* SOP [Foth, 2011b]). Sample COC procedures are also described in the *Sample Chain of Custody* SOP (Foth, 2011b).

2.3.1. Sample Handling, Preservation, Transportation, and Storage

The *FR-LTMP's* Table 2-6 (see Appendix A-2) lists the required sample containers, preservation requirements, and holding times for the specified analytical methods and sample matrices. Sample bottles will be provided by the laboratory and prepared in accordance with *The Samplers Guide to the CLP Program* (USEPA, 2001). Sample containers will be purchased by the laboratory pre-cleaned to requirements of the USEPA Office of Solid Waste and Emergency Response Directive 9240.05A. Sample containers will be kept closed and in a cooler until used.

Vendor certificates of cleanliness for sampling supplies will be accepted and on file at the analytical laboratories. For PCB congener analysis by USEPA 1668A, ultra-low level detection limits are required and there is increased risk of cross-contamination; therefore, additional precautions are necessary.

2.3.1.1. Sample Packaging

Sample packaging and shipping procedures are designed to ensure that the samples and their accompanying COC will arrive at the laboratory intact. A temperature blank is required in all coolers. Packaging, marking, labeling, and shipping of samples will comply with the regulations of the U.S. Department of Transportation in 49 CFR 171-177.

2.3.1.2. Shipping Airbills

If samples are shipped, airbills will be retained to provide a record of sample shipment to the laboratory. Completed airbills will accompany shipped samples to the laboratory and will be forwarded along with data packages. Airbills will be kept as part of the data packages in the project files.

2.3.2. Chain of Custody

Proper sample and data custody procedures will be followed during the long-term monitoring program. Custody is addressed during field sample collection, during data analyses in the laboratory, and through proper handling of project files. Persons will have custody of samples when samples are in their physical possession, in their view after being in their possession, or in their possession and secured to prevent tampering. In addition, when samples are secured in a restricted area accessible only to authorized personnel, they will be deemed to be in the custody of such authorized personnel.

COC forms will provide the record of responsibility for sample collection, transport, and submittal to the laboratory. Field personnel designated as responsible for sample custody will fill out COC forms at each sampling site, at a group of sampling sites, or at the end of each day of sampling. Original COC forms will accompany samples to the laboratory, and copies will be forwarded to the project files.

2.3.2.1. Field Custody Procedures

COC forms will be required for all samples. The sample processing team will initiate COC forms. COC forms will contain the sample's unique identification number, sample date and time, sample description, sample type, preservation (if any), and analyses required. Original COC forms, signed by the field team, will accompany the samples to the laboratory. A copy of relinquished COC forms will be retained with the field documentation. COC forms will remain with the samples at all times. Samples and signed COC forms will remain in the possession of the field team until samples are delivered to the express carrier (e.g., Federal Express), hand delivered to the laboratory, or placed in secure storage (see *Sample Chain of Custody* SOP [Foth, 2011b]).

2.3.2.2. Laboratory Sample Receipt and Storage

Upon sample receipt, the laboratory sample custodian will verify package seals, open the packages, check temperature blanks (and record temperatures), verify sample integrity, and inspect contents against COC forms. Note that samples requiring preservation at 4 degrees Celsius (°C) may be recorded as "received on ice" if solid ice is present in the cooler at the time the samples are received, in lieu of temperature measurements, per Wisconsin Administrative Code Chapter NR 149.11(4). The laboratory PM will be contacted to resolve any discrepancies between sample containers and COCs. After confirming the shipment

and COC are in agreement, the sample custodian will initiate an internal COC as well as supply the Laboratory QAM with a sample acknowledgement letter. If the sample temperatures are outside the required range, the laboratory will contact the Laboratory QAM to determine the proper course of action.

Samples will be logged into the Laboratory Information Management System (LIMS), which assigns a unique laboratory number to each sample. LIMS will be used by all laboratory personnel handling samples to ensure all sample information is tracked and recorded.

After the laboratory labels the samples, they will be moved to secured refrigerators where they will be maintained at 4 °C, or frozen, as appropriate. Access to refrigerators and freezers will be limited to authorized laboratory personnel.

2.4. Laboratory Analytical Methods

The analytical parameters and methods specified for water and fish tissue analysis are set forth in detail in Section 2.6 of the *FR-LTMP*.

2.5. Quality Control Requirements

The overall QA objective for this project is to collect data of a known and high level of quality through the specification and implementation of QC procedures during field sampling, sample handling, laboratory analysis, and data management. A detailed discussion of QC procedures can be found in Section 2.7 of the *FR-LTMP*.

2.6. Instrument Testing, Inspection and Maintenance

Procedures for testing, inspection and maintenance of field and laboratory instruments can be found in Section 2.8 of the *FR-LTMP*.

2.7. Data Management

All requirements for data management can be found in Section 2.9 of the *FR-LTMP*.

SECTION 3

3.0 Assessment and Oversight

Assessment and oversight activities are performed to determine whether the QC measures identified in this *OUI-LTMP* are implemented and documented as required. The Respondent Team Project Coordinator, PM, and Field Supervisors will perform assessment and oversight to check conformance to this *OUI-LTMP*. For example, during a review, the Field Supervisor may check that a sample has been processed and labeled correctly or that the field QC samples were collected at the appropriate frequency. The need for a check can be determined independently by the Project Coordinator or PM, or assigned by these persons to another team member.

Response Agency oversight activities may be performed by USEPA and WDNR. At all reasonable times, USEPA and WDNR personnel and their authorized representatives shall have the authority to enter and freely move about all on-site and off-site areas where work, if any, is being performed, for the purposes of inspecting conditions, activities, the results of activities, records, operating logs, field notes, and data related to these monitoring activities, provided project health and safety requirements are followed.

Aspects of the *OUI-LTMP* may be adaptively managed by the Respondents, Response Agencies, and their respective technical consultants. Using an adaptive management approach, information collected during the early stages of the monitoring program may be used to guide or improve the performance of later field or analytical tasks.

Additional information on field audits, laboratory audits, corrective action and contingency plans can be found in Section 3 of the *FR-LTMP*.

SECTION 4

4.0 Data Validation and Data Analysis

Data validation is the process by which data generated in support of this project are evaluated according to the QA/QC requirements of this *OUI-LTMP*. The data are evaluated for precision and accuracy against analytical protocol requirements. Nonconformance or deficiencies that could affect the precision or accuracy of the reported result are identified and noted, followed by an assessment of whether the result is sufficient to achieve project data quality objectives (DQO).

Data analysis includes procedures for summing total PCB concentrations, blank-correcting PCB congener results, and statistically analyzing the resultant data in space and time. Statistical analysis procedures include statistical distribution testing, correlations with controlling variables, trend analysis and regression, and PCB loading calculations.

A detailed discussion of data review, validation and analysis can be found in Section 4 of the *FR-LTMP*.

SECTION 5

5.0 References

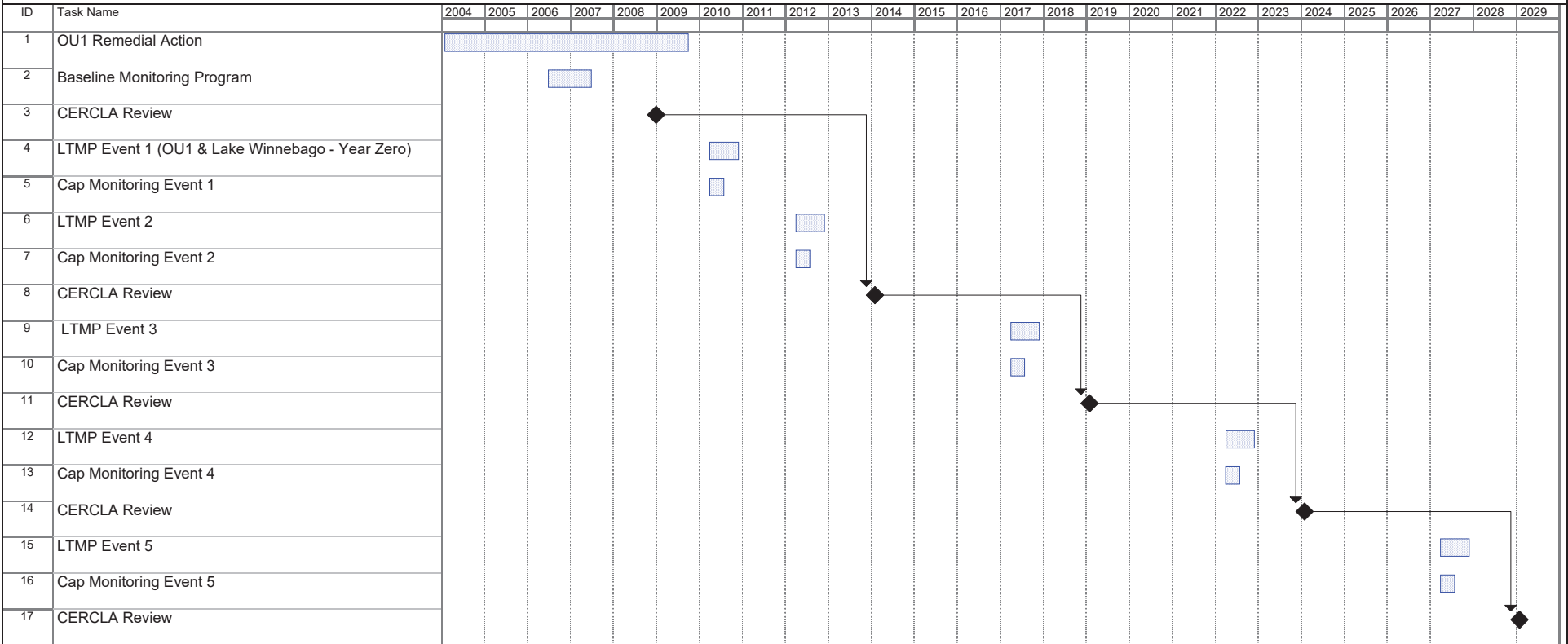
- Anchor QEA, LLC, et al., 2009. *Lower Fox River Remedial Design 100 Percent Design Report Appendix I, Long-Term Monitoring Plan, Volume 2 of 2*. Prepared by Anchor, Tetra Tech EC, Inc., Shaw Environmental & Infrastructure, Inc., and LimnoTech, Inc. December 2009.
- Foth Infrastructure & Environment, LLC, 2011a. *Lower Fox River Operable Unit 1 – Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work, Appendix A, Health and Safety Plan*. April 2011.
- Foth Infrastructure & Environment, LLC, 2011b. *Lower Fox River Operable Unit 1 – Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work, Appendix B, Quality Assurance Project Plan*. April 2011.
- Foth Infrastructure & Environment, LLC and CH2M HILL, Inc., 2011. *Lower Fox River Operable Unit 1 – Integrated Final Design and Remedial Action Work Plan for Post-2009 Response Work, Appendix G, Cap Monitoring and Maintenance Plan*. May 2011.
- RETEC Group, Inc., 2002. *Baseline Human Health and Ecological Risk Assessment, Lower Fox River and Green Bay, Wisconsin Remedial Investigation and Feasibility Study*. Prepared for the Wisconsin Department of Natural Resources. December 2002.
- U.S. Environmental Protection Agency, 2001. *The Samplers Guide to the CLP Program*.
- U.S. Environmental Protection Agency, 2002. *Record of Decision, Operable Unit 1 and Operable Unit 2, Lower Fox River and Green Bay, Wisconsin*. December 2002.
- U.S. Environmental Protection Agency, 2008. *Record of Decision Amendment, Operable Unit 1, Lower Fox River and Green Bay Superfund Site*. June 2008.

Appendix A
Referenced Tables and Figures

A-1: Figures



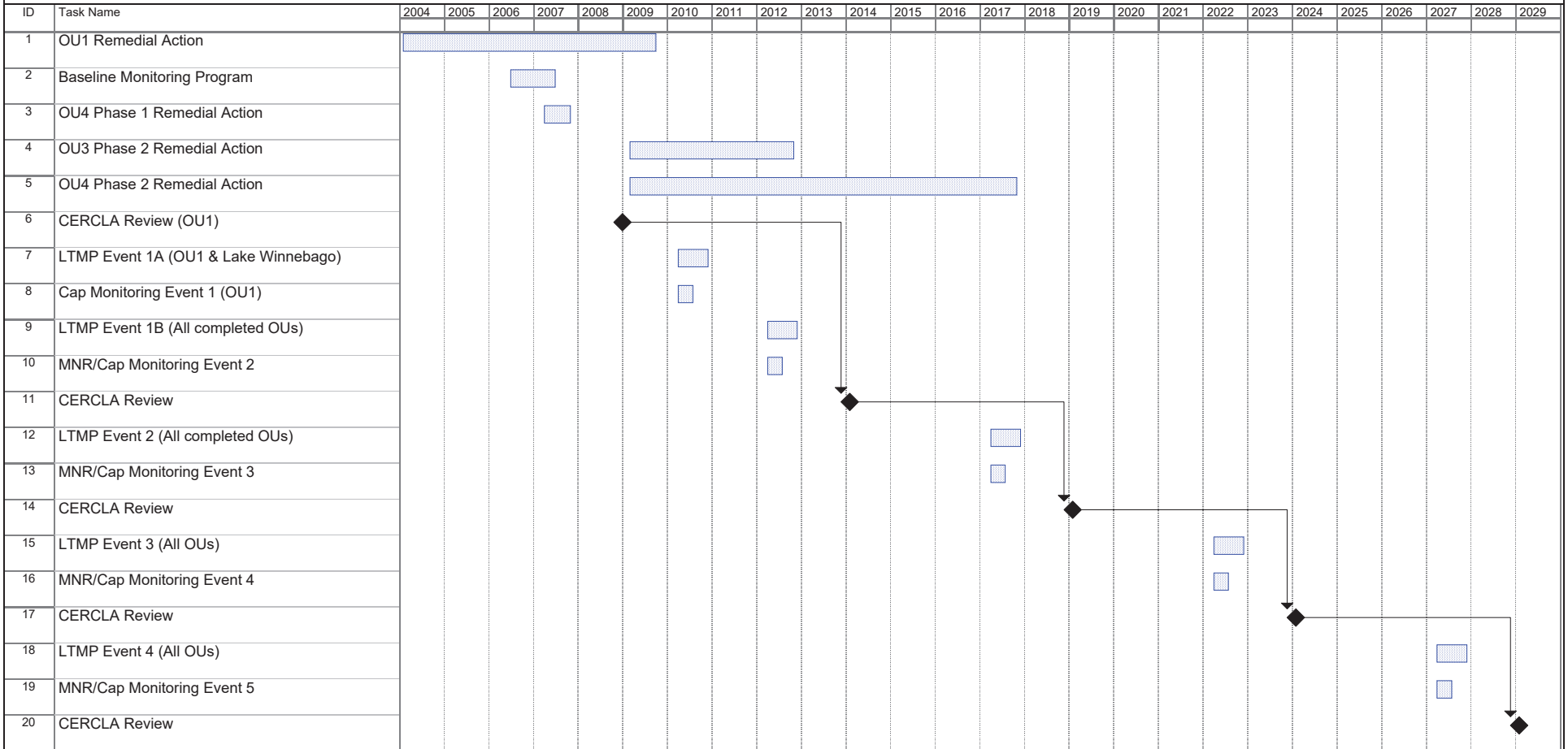
**Figure 1-1
OU1 Long-term Monitoring Project Schedule (Through 2029)
Lower Fox River**



Note: Long-term monitoring will be conducted for 30 years following completion of all remedial actions at the Site unless it can be demonstrated that risk reduction goals, background criteria, or other exit criteria have been or are being achieved sooner.



**Figure 1-2
OUs1-5 Long-term Monitoring Project Schedule (Through 2029)
Lower Fox River**



Note: Long-term monitoring will be conducted for 30 years following completion of all remedial actions at the Site unless it can be demonstrated that risk reduction goals, background criteria, or other exit criteria have been or are being achieved sooner.

A-2: Tables and Figures from FR-LTMP

Legend

Water Quality Monitoring Stations

◆ Water Sampling Location and Transect

Suggested Fishing Areas

□ Fall (Aug - Oct)

W = Walleye
 B = Smallmouth Bass
 D = Drum
 C = Carp
 G = Gizzard Shad

□ Spring (Jun)

w = Walleye
 b = Smallmouth Bass
 d = Drum
 c = Carp

Note: June event is a contingency and is not anticipated.

Physical Features

■ Dock - Source: OSI 1998
 ➤ Boat Landing
 — USACE Channel Definition
 — Dams
 — Shoreline
 — Water Depth Contour - 10-Foot Interval
 — Water Depth Contour - 2-Foot Interval

12000 0 12000 Feet

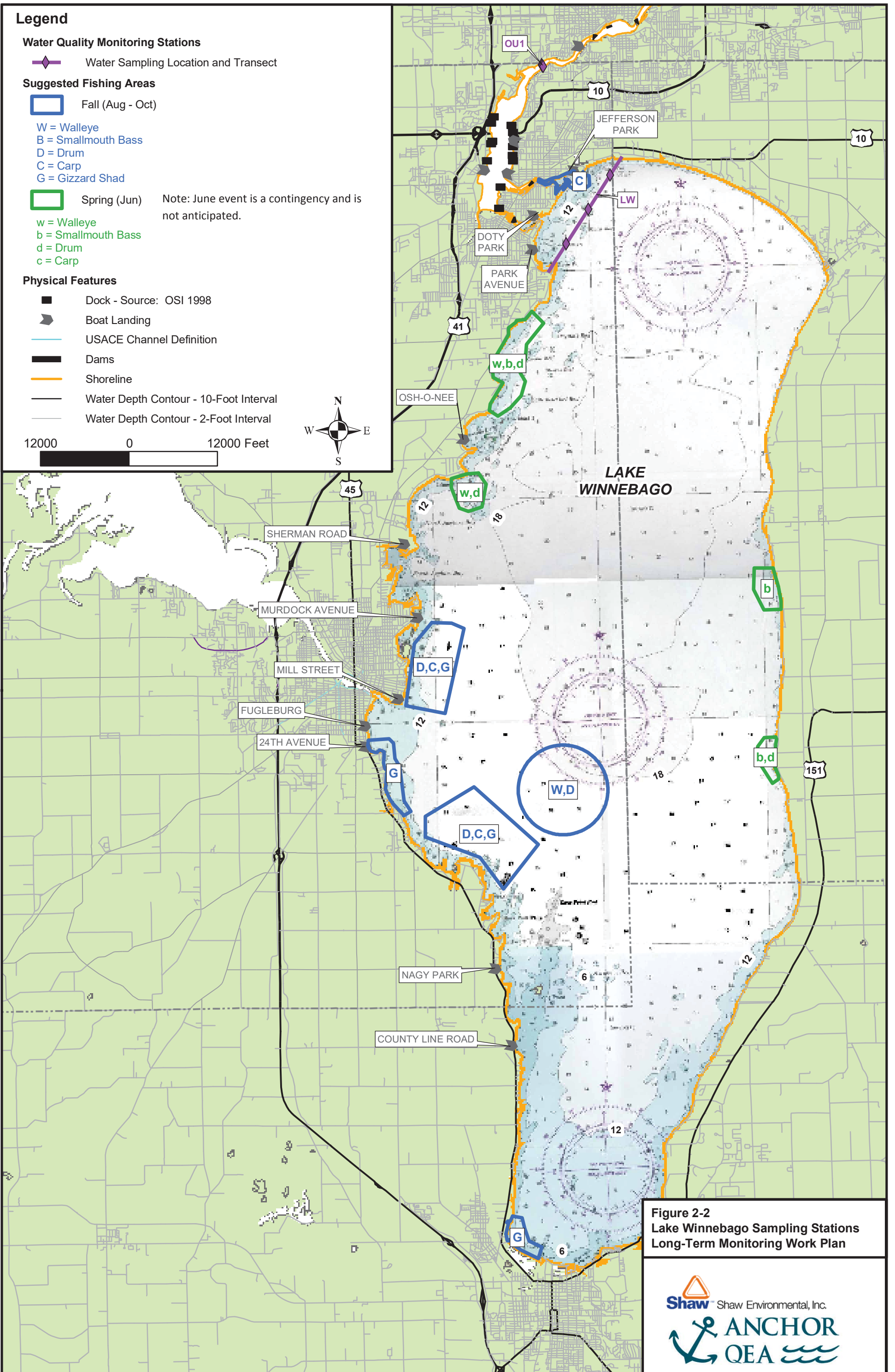


Figure 2-2
 Lake Winnebago Sampling Stations
 Long-Term Monitoring Work Plan



Legend

Water Quality Monitoring Stations

◆ Water Sampling Location and Transect

Suggested Fishing Areas

□ Fall (Aug - Oct)

W = Walleye
 B = Smallmouth Bass
 D = Drum
 C = Carp
 G = Gizzard Shad

□ Spring (Jun) Note: June event is a contingency and is not anticipated.

w = Walleye
 b = Smallmouth Bass
 d = Drum
 c = Carp

Physical Features

- Dock - Source: OSI 1998
- Boat Landing
- USACE Channel Definition
- Dams
- Shoreline
- Water Depth Contour - 10-Foot Interval
- Water Depth Contour - 2-Foot Interval

2000 0 2000 Feet

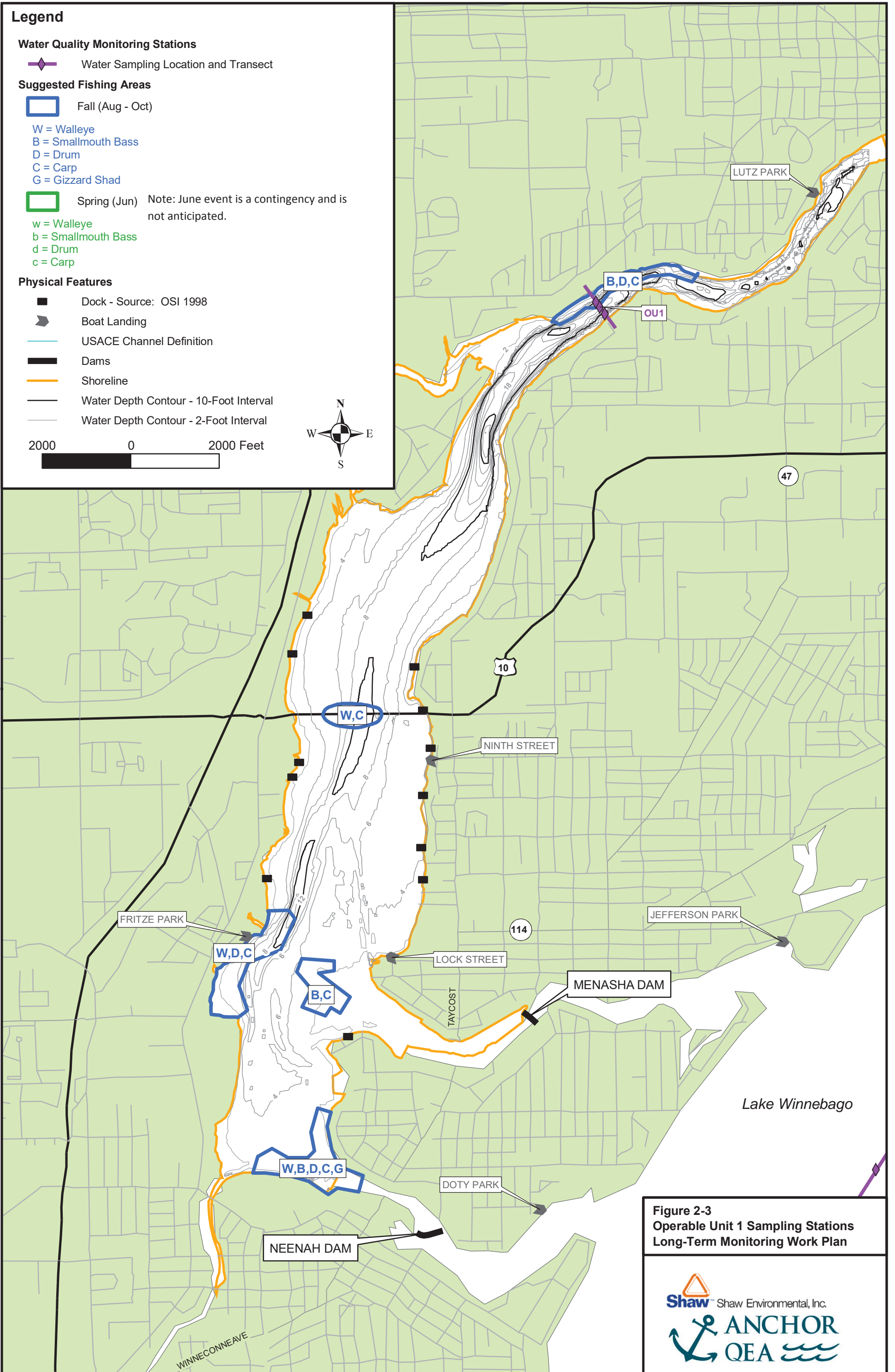


Figure 2-3
 Operable Unit 1 Sampling Stations
 Long-Term Monitoring Work Plan



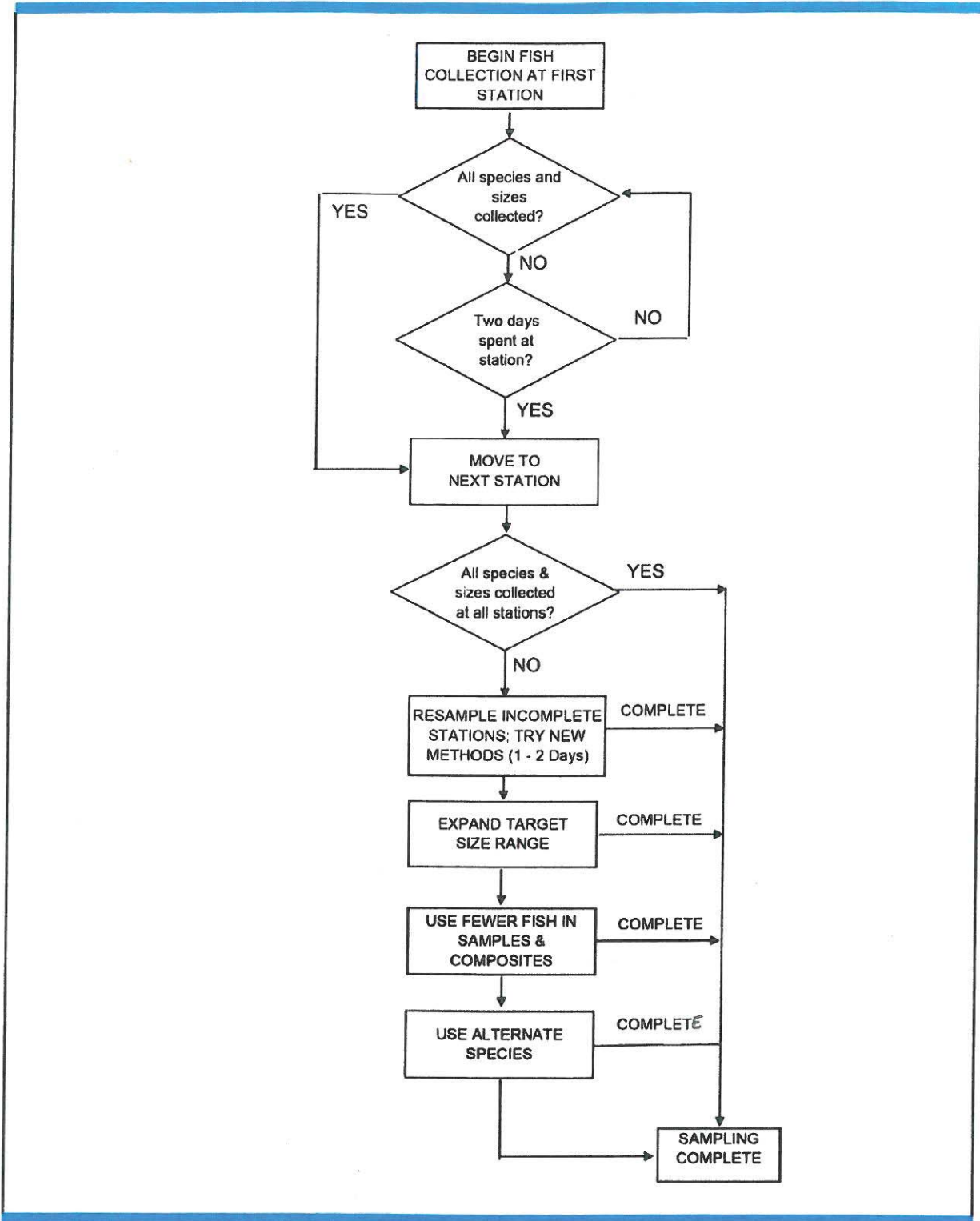


Figure 3-1
 Field Decision Flow Chart for Fish Sampling
 Long-term Monitoring Plan
 Lower Fox River Remedial Design



**Table 2-1
Water Sampling and Analysis Plan**

	Number of Monthly Samples	Number of Field Replicates	Total Number of Analyses[1]	Field Parameters [Temp, Turbidity]	Total Suspended Solids [EPA 160.2]	Total Organic Carbon [EPA 415.1]	PCB Congeners [EPA 1668A]
LWB-yy-mmdd	8	4	12	X	X	X	X
OU1-yy-mmdd	8	1	9	X	X	X	X
OU2A-yy-mmdd	8	1	9	X	X	X	X
OU2B-yy-mmdd	8	1	9	X	X	X	X
OU2C-yy-mmdd	8	1	9	X	X	X	X
OU3-yy-mmdd	8	1	9	X	X	X	X
OU4-yy-mmdd	8	4	12	X	X	X	X
OU5A-yy-mmdd	8	1	9	X	X	X	X
OU5B-yy-mmdd	8	1	9	X	X	X	X
OU5C-yy-mmdd	8	1	9	X	X	X	X
TOTAL	80	16	96				

Note:

[1] Does not include field rinseate blank samples; see Section 2.7.1 for further discussion.

**Table 2-2
Water Sampling Locations**

Transect	Position	X_WTM27	Y_WTM27	Latitude	Longitude	X_WTM8391	Y_WTM_8391
LW	W	625,571	382,512	44.1770	-88.4293	645,559	412,726
	M	626,486	393,942	44.1897	-88.4175	646,474	414,157
	E	627,390	395,354	44.2022	-88.4058	647,378	415,589
OU1	W	624,544	399,939	44.2440	-88.4403	644,531	420,154
	M	624,583	399,885	44.2435	-88.4399	644,571	420,100
	E	624,618	399,838	44.2431	-88.4394	644,606	420,053
OU2A	W	632,719	404,099	44.2800	-88.3369	652,707	424,314
	M	632,733	404,036	44.2794	-88.3368	652,721	424,251
	E	632,749	403,969	44.2788	-88.3366	652,736	424,184
OU2B	W	642,374	408,027	44.3135	-88.2149	662,362	428,242
	M	642,413	407,981	44.3131	-88.2145	662,400	428,197
	E	642,452	407,936	44.3127	-88.2140	662,440	428,151
OU2C	W	649,030	415,114	44.3759	-88.1295	669,017	435,329
	M	649,070	415,075	44.3756	-88.1290	669,057	435,290
	E	649,103	415,044	44.3753	-88.1286	669,090	435,259
OU3	W	653,989	422,665	44.4428	-88.0650	673,977	442,881
	M	654,035	422,628	44.4425	-88.0645	674,022	442,844
	E	654,090	422,584	44.4421	-88.0638	674,077	442,799
OU4	W	658,157	432,421	44.5297	-88.0097	678,144	452,637
	M	658,219	432,409	44.5296	-88.0089	678,206	452,625
	E	658,268	432,400	44.5295	-88.0083	678,255	452,615
OU5A	W	661,674	447,915	44.6683	-87.9606	681,661	468,130
	M	665,240	445,525	44.6460	-87.9164	685,227	465,741
	E	668,193	443,546	44.6275	-87.8798	688,180	463,762
OU5B	W	677,043	470,189	44.8651	-87.7591	697,029	490,405
	M	680,385	468,332	44.8475	-87.7175	700,371	488,548
	E	684,551	466,018	44.8257	-87.6657	704,538	486,234
OU5C	W	694,097	493,040	45.0661	-87.5347	714,083	513,255
	M	700,719	488,883	45.0269	-87.4523	720,705	509,099
	E	705,334	485,986	44.9995	-87.3950	725,319	506,202



Notes:

Quarter-point sampling location code: W = west, M = middle, E = east location in water sampling transect
All Wisconsin Transverse Mercator (WTM) coordinates are in meters

**Table 2-3
Target Fish Species, Size Classes, and Compositing Plan**

		2 - 4"	4 - 6"	6 - 8"	8 - 10"	10 - 12"	12 - 14"	14 - 16"	16 - 18"	18 - 20"	20 - 22"	22 - 24"	Skin-on Fillet	Whole Fish	No. Individuals (Target)	No. Individuals (Minimum)	No. Composites	No. Fish per Composite (Target)	No. Fish per Composite (Minimum)
Primary Species	Objective																		
Walleye	Human Health												X		15	8	0	n/a	n/a
Carp (OUs 1-4)	Ecological													X	35	7	7	5	1
Drum (OUs 4-5)	Ecological													X	25	5	5	5	1
Gizzard Shad	Young of Year													X	175	25	7	25	5
Alternate Species	Objective																		
Smallmouth Bass	Human Health												X		15	15	0	n/a	n/a
Drum (OUs 1-3)	Ecological													X	25	5	5	5	1
Carp (OU 5)	Ecological													X	35	7	7	5	1

Notes:

-  Target Size Class
-  Alternate Size Class

n/a = Walleye and Bass will not be composited

**Table 2-4
Fish Tissue Sampling and Analysis Matrix**

	Number of Composites	No. Fish / Composite	No. Individual Fish	Total Number Analyses	No. Field Replicates	Minimum Size (inches)	Maximum Size (inches)	Preparation Method	PCB Aroclors [8082/SL0H]	Lipid Content [EPA 2000]	Mercury [EPA 747]	Archive [Freeze]
Walleye												
LWB-YY-WA-000	n/a	n/a	15	15	1	12	22	SOF	X	X	X	X
OU1-YY-WA-000	n/a	n/a	15	15	1	12	22	SOF	X	X		X
OU2A-YY-WA-000	n/a	n/a	15	15	1	12	22	SOF	X	X		X
OU2B-YY-WA-000	n/a	n/a	15	15	1	12	22	SOF	X	X		X
OU2C-YY-WA-000	n/a	n/a	15	15	1	12	22	SOF	X	X	X	X
OU3-YY-WA-000	n/a	n/a	15	15	1	12	22	SOF	X	X		X
OU4-YY-WA-000	n/a	n/a	15	15	1	12	22	SOF	X	X		X
OU5A-YY-WA-000	n/a	n/a	15	15	1	12	22	SOF	X	X		X
OU5B-YY-WA-000	n/a	n/a	15	15	1	12	22	SOF	X	X		X
WALLEYE SUBTOTAL:			135	135	9							
Carp												
LWB-YY-CA-000	7	5	35	7	1	12	22	WF	X	X		X
OU1-YY-CA-000	7	5	35	7	1	12	22	WF	X	X		X
OU2A-YY-CA-000	7	5	35	7	1	12	22	WF	X	X		X
OU2B-YY-CA-000	7	5	35	7	1	12	22	WF	X	X		X
OU2C-YY-CA-000	7	5	35	7	1	12	22	WF	X	X		X
OU3-YY-CA-000	7	5	35	7	1	12	22	WF	X	X		X
OU4-YY-CA-000	7	5	35	7	1	12	22	WF	X	X		X
CARP SUBTOTAL:			245	49	7							
Drum												
LWB-YY-DR-000	5	5	25	5	1	12	22	WF	X	X		X
OU4-YY-DR-000	5	5	25	5	1	12	22	WF	X	X		X
OU5A-YY-DR-000	5	5	25	5	1	12	22	WF	X	X		X
OU5B-YY-DR-000	5	5	25	5	1	12	22	WF	X	X		X
DRUM SUBTOTAL:			100	20	4							
Gizzard Shad												
LWB-YY-GS-000	7	25	175	7	1	2	4	WF	X	X		X
OU1-YY-GS-000	7	25	175	7	1	2	4	WF	X	X		X
OU2A-YY-GS-000	7	25	175	7	1	2	4	WF	X	X		X
OU2B-YY-GS-000	7	25	175	7	1	2	4	WF	X	X		X
OU2C-YY-GS-000	7	25	175	7	1	2	4	WF	X	X		X
OU3-YY-GS-000	7	25	175	7	1	2	4	WF	X	X		X
OU4-YY-GS-000	7	25	175	7	1	2	4	WF	X	X		X
OU5A-YY-GS-000	7	25	175	7	1	2	4	WF	X	X		X
OU5B-YY-GS-000	7	25	175	7	1	2	4	WF	X	X		X
GIZZARD SHAD SUBTOTAL:			1,575	63	9							
SUBTOTAL FISH ANALYSES (ALL SPECIES):				267	29							
GRAND TOTAL FISH ANALYSES:				296								

Notes:
 SOF - Skin-On Fillet
 WF - Whole Fish
 WA - Walleye
 CA - Carp
 DR - Drum
 GS - Gizzard Shad
 See Section 2.2.5 for key to sample identification system

**Table 2-5
Fish Habitat and Collection Methods**

	Species	General Habitat Description	Electrofishing	Trawl	Rod and Reel	Seine Net	Other
Lower Fox River (LWB, OU 1 - OU 4)	Walleye	Below dams, near discharges, submerged weed beds, hard rocky substrates, bridge pillars and abutments	X	X	X		
	Carp	Muddy flats and bays, aquatic vegetation and weed beds, below dams, near discharges, bridge pillars, creek mouths	X	X			
	Drum	Diverse and wide-ranging habitat, aquatic vegetation and weed beds, along reefs, below dams, near discharges, boulders, bridge pillars	X	X	X		
	Gizzard Shad	Nearshore areas, aquatic vegetation and weed beds, along reefs, below dams, near discharges, bridge abutments, creek mouths	X	X		X	
	Smallmouth Bass	Aquatic vegetation and weed beds, rocky substrates, below dams, near discharges, deep holes with structure (instream logs, rocks, outcrops), docks, bridge abutments	X	X	X		
Green Bay (OU 5)	Walleye	Aquatic vegetation and weed beds, rocky shorelines, near boat launches	X	X	X		
	Carp	Weedy, muddy, flats and bays along shorelines	X	X			
	Drum	Near shore to 30' of water, all substrates, near boat launches	X	X			
	Gizzard Shad	Near shore, near boat launches	X	X		X	
	Smallmouth Bass	Aquatic vegetation and weed beds, rocky shorelines; deep holes with structure	X	X	X		

**Table 2-6
Sample Containers, Holding Times, and Preservation Requirements**

Parameter	Analytical Method	Matrix	Container	Preservation	Minimum Sample	Maximum Holding
TOC - water	EPA 415.1	Water	Polyethylene / Glass	4°C, H2SO4 OR H3PO4 TO pH <2	100 mls	28 days
TSS	EPA 160.2	Water	1 Liter Polypropylene. Certified Clean	None	1,000 mls	7 days
PCB Congeners	EPA 1668	Water	2 Liter Amber Glass with Teflon lined cap. Certified clean	4°C. Residual chlorine will be tested at the lab upon receipt. If residual chlorine present, add 80 mg. Sodium Thiosulfate	1,000 mls	1 year
PCB Aroclors	SW 8082	Fish	Clean glass container or polyethylene bags	Stored frozen	20 grams	Stored frozen until extraction and analyzed within 40 days of extraction

WDNR Site Name: Lower Fox River OU1
Case Closure – GIS Registry, Form 4400-202 (rev. 8/16)

ATTACHMENT E

Monitoring Well Information

Not applicable. Groundwater is not an exposure pathway, therefore, groundwater monitoring wells were not installed nor sampled as part of the response action.

ATTACHMENT F

Source Legal Documents

F.1 Deeds – Source Property

The deed for the P.H. Glatfelter Company source property is provided. The deed for the Wisconsin Tissue Mills, Inc. source property was pursued but was not reasonably obtainable. In lieu of the latter deed, the parcel IDs for the former “source property” have been identified in the Wisconsin Tissue Mills, Inc. source property legal description statement (see F.4 below).

F.2 Certified Survey Map

Section not required to be completed per WDNR.

F.3 Verification of Zoning

Section not required to be completed per WDNR.

F.4 Signed Statement

Source property legal description statements signed by the Responsible Parties:

P. H. Glatfelter Company
Wisconsin Tissue Mills, Inc.

F.1. Deeds – Source Property

EXHIBIT A

Legal Description

201, 207 and 225 W. Wisconsin Avenue, Neenah, WI

All those parts of Lots One (1), Two (2), Three (3), Four (4), Five (5), Six (6), Seven (7) and Eight (8), Block One (1), North Neenah, City of Neenah, Winnebago County, Wisconsin, according to the plat thereof on file and of record in the office of the Register of Deeds in and for said County and of Lots Seven (7) and Eight (8) and of the Southwesterly Thirty-six (36) feet of Lot Nine (9), Block Two (2), Palmer's Map of Neenah of 1874 recorded in said Register of Deeds' office in Volume 3 of Plats on page 28, which lie Southeasterly of a line described as follows:

Beginning at a point in the Southwesterly line of Lot 8, Block 1, North Neenah distant 162.5 feet Northwesterly from the most Southerly corner thereof; thence Northeasterly to a point in the Southwesterly line of Lot 5, Block 1, North Neenah, distant 158.63 feet Northwesterly from the most Southerly corner thereof; thence Northeasterly to a point in the Northeasterly line of Lot 2, Block 1, North Neenah, distant 158.4 feet Northwesterly from the most Easterly corner thereof; thence Northeasterly at an angle of $88^{\circ}40'$ to the right from the Northeasterly line of said Lot 2, a distance of 129 feet; thence Northeasterly on a 15° tangential curve to the left to a point distant 30 feet Southwesterly (measured at right angles) from the Northeasterly line of Lot 7, Block 2, Palmer's Map of Neenah of 1874; thence Northeasterly along a straight line to a point of intersection with a line running parallel with and distant 36 feet Northeasterly (measured at right angles) from the Southwesterly line of Lot 9, Block 2, Palmer's Map of Neenah of 1874, said last mentioned point being 29.5 feet distant Southeasterly (measured along the last mentioned parallel line) from the center line of the Wisconsin Central Railway Company's main line track as the same is now located, maintained and operated over and across said lots; EXCEPT a strip of land 17 feet in width which is included within two lines running parallel with and respectively 8.5 feet distant Northeasterly and 8.5 feet distant Southwesterly (measured at right angles) from the center line of Wisconsin Central Railway Company's spur track #12 as the same is now located, maintained and operated over and across Lots 7 and 8, Block 1, North Neenah.

AND

Those parts of Lots Nine (9), Ten (10), Eleven (11), Twelve (12), Thirteen (13), Fourteen (14) and Fifteen (15), Block One (1), North Neenah, City of Neenah, Winnebago County, Wisconsin, according to the plat thereof on file and of record in the office of the Register of Deeds in and for said County, which lie Southeasterly of a line described as follows:

Beginning at a point in the Southwesterly line of said Lot Fifteen (15) distant 210 feet Northwesterly from the most Southerly corner thereof; thence Northeasterly along the arc of a curve convex Southeasterly, said curve having a radius of 1048.49 feet and the sub chord of said curve extending from the point of beginning Northeasterly 164.16 feet to a point on the Southwesterly line of said Lot Eleven (11), said point being 173.28 feet Northwesterly from the Southwesterly corner of said Lot 11; thence continuing along the arc of said curve Northeasterly the sub chord of said curve extending 120.10 feet from the last referred to point in the Southwesterly line of said Lot 11 to a point in the Northeasterly line of said Lot 9, said point being 162.5 feet Northwesterly from the Southeasterly corner of said Lot 9, the long chord of said curve extending Northeasterly a distance of 284 feet from the point of beginning to the last referred to point in the Northeasterly line of said Lot 9.

AND

A part of Lot Fifteen (15) and the Westerly half of Lot Fourteen (14), in Block One (1), in the Map of North Neenah, City of Neenah, Winnebago County, Wisconsin being described by:
Commencing at the Southeasterly most Easterly corner of Lot 16 and the true point of beginning; thence N 28°35'00" W, 187.64 feet along the Westerly line of said Lot 15; thence N 22°08'09" E, 25.73 feet to a point on the Northerly line of those lands recorded in Volume 1124 page 430 of Records as filed in the

Winnebago County Register of Deeds office; thence Easterly 41.54 feet along the arc of a curve to the left being the Northerly line of those lands recorded in Volume 1124 page 428 and page 430 having a radius of 1048.49 feet and a chord of which bears N 76°39'25" E, 41.54 feet to a point on the Easterly line of the Westerly half of said Lot 14; thence S 28°35'00" E, 193.00 feet along the Easterly line of the Westerly half of said Lot 14 to a point on the Northerly line of Main Street; thence S 61°24'05" W, 60.00 feet along the Northerly line of Main Street to the true point of beginning.

AND

All of Lots in Block "B" and all of Block "C", in WARNER'S ADDITION and part of Lots Five (5), Six (6), Seven (7), Eight (8) and Nine (9), per PALMER'S MAP (1874), all in the City of Neenah, Winnebago County, Wisconsin, described as follows:

An irregular shaped parcel of land enclosed within Boundaries "X", "Y" and "Z", which boundaries are:

BOUNDARY "X"

A line commencing at the Southeasterly corner of Lot One (1) of Block "B" of WARNER'S ADDITION and thence running Northwesterly along the Southwesterly boundary of the said Block "B" and the extension of the said boundary to its intersection with the high water mark of Little Lake Butte des Morts, which intersection is hereinafter called the "Lake Intersection";

BOUNDARY "Y"

A line commencing at the Southeasterly corner of Lot One (1) of Block "B" of WARNER'S ADDITION and thence running Northeasterly along the Southeasterly boundary of the said Block "B" and the extension of the said boundary to its intersection with the Southerly bank of the Fox River, which intersection is hereinafter called the "River Intersection";

BOUNDARY "Z"

A line commencing at the River Intersection; thence running Northwesterly along the Southerly bank of the Fox River to its intersection with the high water mark of Little Lake Butte des Morts and thence running Southwesterly along the high water mark of Little Lake Butte des Morts to the Lake Intersection.

Less and Excepting therefrom lands described in Volume 1039, Page 584 and further less and Excepting lands described in Document No. 1377120.

232 W. Wisconsin Avenue, Neenah, WI

Lots Fourteen (14) and Fifteen (15) of Block Three (3), JONES'S 2ND. ADDN. to Neenah, now in the Tenth Ward, City of Neenah, Winnebago County, Wisconsin, and Lot Sixteen (16) of Block Three (3), in JONES' 2ND. ADDN. to Neenah, now in the Tenth Ward, City of Neenah, Winnebago County, Wisconsin.

235 Main Street, Neenah, WI

Parcel I:

The Westerly one-half (W 1/2) of Lot Eighteen (18), and the Easterly Thirty (30) feet of Lot Nineteen (19), of Block One (1) in the PLAT OF NORTH NEENAH, formerly in the Second Ward, now in the Tenth Ward, City of Neenah, Winnebago County, Wisconsin.

Parcel II:

Lot Twenty (20) and the West 10 feet of Lot Nineteen (19), in Block One (1), in the PLAT OF NORTH NEENAH, in the Second Ward of the City of Neenah, Winnebago County, Wisconsin.

Parcel III:

All that part of Lot Twenty-one (21) of Block One (1) in Plat of NORTH NEENAH, In the Fourth (formerly Second) Ward, City of Neenah as described in Volume 346, Page 147, Now in the Tenth Ward, City of Neenah, Winnebago County, Wisconsin.

EXCEPTING from each of the above-described parcels that portion conveyed to the City of Neenah by instrument recorded on May 4, 2000 as Document No. 1093501.

Parcel Identification Numbers:	810-0431
	810-0409
	810-0417
	810-0405
	810-0408
	810-0476

EXHIBIT B

Permitted Encumbrances

1. General taxes levied in the year of 2008 and thereafter.
2. Utility easements and rights-of-way of record.
3. Zoning regulations, ordinances, building restrictions and regulations.
4. All matters affecting the Property as shown and described on the Survey dated September 20, 2007 prepared by Martenson & Eisele, Inc.
5. The terms, conditions, rights and obligations of Grantor and Grantee, respectively, set forth in that certain Contract for Sale and Purchase of Real Estate Under Threat and In Lieu of Condemnation dated May 23, 2008.
6. The terms, conditions, rights and obligations of Grantor and Grantee, respectively, set forth in that certain Assignment and Assumption of Railroad Contracts dated May 23, 2008.
7. Any facts, rights, interests, or claims that are not shown by the public records but that could be ascertained by an inspection of the land or by making inquiry of persons in possession of the land.
8. Easements, claims of easements or encumbrances that are not shown by the public records.
9. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the title including discrepancies, conflict in boundary lines, shortages in area, or any other facts that would be disclosed by an accurate and complete land survey of the land, and that are not shown in the public records.
10. The lien of any special assessments, special taxes or special charges.
11. Water Rights Lease recorded on September 20, 1985 as Document No. 638283.
12. Limited access provision on instrument recorded on May 4, 2000 as Document No. 1093501.
13. Sanitary Sewers easement disclosed by instrument recorded in Volume 452, Page 462.
14. Railway Spur Track easement disclosed by instrument recorded in Volume 465, Page 613.

15. Reservation for underground sewers as set forth in Quit Claim Deed recorded in Volume 466, Page 234.
16. Easement rights to maintain and keep in repair all existing Sewer Mains as set forth in Document recorded in Volume 664, Page 545.
17. Water and Sewer easement disclosed by instrument recorded in Volume 982, Page 12.
18. Easement for public utilities disclosed by instrument recorded in Volume 992, Page 120.
19. Terms, covenants and conditions as set forth in instrument recorded in Volume 1102, Page 469.
20. Sanitary and Storm Sewer easement disclosed by instrument recorded in Document No. 586933.
21. Terms and Conditions and Easements as contained in Water Rights Lease recorded in Document No. 638283.
22. Reservations to install, maintain and use two underground sewers as set forth in Deed recorded in Volume 641, Page 193.
23. Covenants, conditions, restrictions and easements as set forth in Deeds recorded in Volume 1039 on Pages 581 and 584.
24. Public or private rights in such portion of the subject premises as may be presently used, laid out or dedicated in any manner whatsoever, for street, highway, and/or alley purposes.
25. Rights of the public in any portions of the subject premises lying below the ordinary highwater mark of Fox River, Little Lake Butte des Morts and Canals.
26. Any adverse claim based upon the assertion that:
 - a) The land or any part thereof is now, or at any time has been, included within Fox River, Little Lake Butte des Morts and Canals.
 - b) Some portion of the land has been created by artificial means, or has accreted to such portion so created.
 - c) Some portion of the land has been brought within or removed from the boundaries thereof by an avulsive movement of the Fox River, Little Lake Butte des Morts and Canals, or has been formed by accretion to any such portion.
27. The terms and conditions of that certain Notice of Contamination to Property recorded as Document number 1098080.

F.4. Signed Statement

**Source Property
Legal Description Statement**

P.H. Glatfelter Company

Site Main Address:
225 West Wisconsin Avenue
Neenah, WI 54956

Parcel ID#s: 810-0431, 810-0409, 810-0417, 810-0405, 810-0408, 810-0476

I hereby attest to the best of my knowledge that the legal description provided in the attached deed describes the property identified as the P.H. Glatfelter Company, 225 West Wisconsin Avenue, Neenah, WI 54956; parcel ID#s 810-0431, 810-0409, 810-0417, 810-0405, 810-0408, and 810-0476.



Responsible Party Representative

08/11/2017

Date

Kent K. Matsumoto, Vice President, General Counsel and Corporate Secretary
Printed Name/Title

**Source Property
Legal Description Statement**

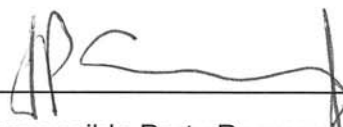
Wisconsin Tissue Mills Inc. (WTM I Company)

Site Main Address:
190 Third Street
Menasha, WI 54952

Parcel ID#: 720043600

I hereby attest to the best of my knowledge that the parcel ID identified above, as well as in the image below (outlined in light blue), describe the "source property" identified as the former Wisconsin Tissue Mills Inc. (WTM I Company), 190 Third Street, Menasha, WI 54952.





Responsible Party Representative

August 9, 2017

Date

J.P. Causey Jr., Vice President

Printed Name/Title

ATTACHMENT G

Notifications to Owners of Affected Properties

Notifications to owners of affected properties were submitted several times during the course of the project to make property owners aware of the project (removal of impacted sediment), to provide project updates, to provide navigational safety and access reminders, and to encourage property owners to visit the project website for updates and information. Examples of two such letters, dated June 21, 2005 and June 2007, and the Riparian Contact List of properties/property owners to which these letters were submitted are attached.

G.1 Deed

Property owner information received August 23, 2017 is included in a GIS dataset of Winnebago and Outagamie Counties Parcels Bordering OU1 in BOTW. This information has been provided in lieu of certified survey maps and deeds.

G.2 Parcel Map

Figures 1 through 5 show the property boundaries and parcel IDs of all properties bordering OU1:

Figure 1	GIS Registry OU1 Parcel Overview
Figure 2	GIS Registry for OU1 Parcel Area 1
Figure 3	GIS Registry for OU1 Parcel Area 2
Figure 4	GIS Registry for OU1 Parcel Area 3
Figure 5	GIS Registry for OU1 Parcel Area 4

G.3 Verification of Zoning

Section not required to be completed per WDNR.

G.4 Signed Statement

An Affected Properties Location Description Statement, signed by the Responsible Party, P. H. Glatfelter Company, is attached.

Attachment G

Notifications to Owners of Affected Properties

LLCT LETTERHEAD

June 21, 2005

Dear Neighbor:

I am writing again to share the projected work schedule for the Little Lake Cleanup Team's 2005 season, as well as remind you of important safety information when using Little Lake Butte des Morts this summer and fall.

The Little Lake Cleanup Team expects significant progress in 2005 and plans to remove and dispose of more than 100,000 cubic yards of impacted sediment. In order to effectively handle this season's sediment, we have expanded the dewatering pad and water treatment plant at our staging area and that construction will be completed by early July.

In-water work on Little Lake Butte des Morts will begin in late June, with the installation of equipment and the pipeline, to allow for actual dredging work to begin by early July. We will initially begin with one dredge that will operate 24-hours-a-day, 5-days-a-week, and after a few weeks we will begin operating a second dredge concurrently. In addition, there may be periods when we operate the dredges on a 6-days-a-week basis to ensure the project stays on schedule and continues to progress in a timely manner.

The first phase of dredging will require a floating pipeline to be extended from our staging area to the southwest corner of the Lake near Arrowhead Park. We expect to complete dredging in that area of the lake by late September. At that time, we will move the dredges north to the western shore of the Lake, just south of Fritse Park. By early to mid-November, we expect to move the dredges to the east side of the Lake north of the trestle trail and west of the Menasha locks, where we will complete dredging for the season. This season's dredging is expected to be completed in mid to late-November. Enclosed are a project fact sheet, a general timeline and maps for this season's work; however, it is important to remember that this schedule could vary depending on weather and other factors. As always, for current information regarding the schedule and location of dredging, please visit our Web site at www.littlelakecleanup.org or call 920-912-5065.

Throughout this project, safety is our top priority – including the safety of project workers, lake neighbors, and others using the lake. Again this year, the pipeline will be marked with very visible buoys and pipeline structure delineators, as well as markers that will be lighted at night. Enclosed please find a safety fact sheet that further explains the safety markers. This information is also posted at area boat ramps, and is being provided to local marinas, bait shops and registered boaters.

Throughout the course of this complex project, we want you to be informed. We encourage you to log onto our Web site – www.littlelakecleanup.com – for regular updates and more in-depth information. You can also contact us at 920-912-5065 or littlelakecleanup@execpc.com.

Thank you again for your cooperation with the cleanup efforts. The Little Lake Cleanup Team looks forward to a safe work season and continuing our cleanup efforts in Little Lake Butte des Morts.

Sincerely,



Bill Hartman
Project Coordinator

Enclosures

June XX, 2007

Dear Neighbor:

We are pleased to report that as we approach July, the Little Lake Cleanup Team's work on Little Lake Butte des Morts is going well. As we continue our in-water dredging for the year, we wanted to provide an update to you regarding our work plans for the next several months.

As we indicated earlier in the season, dredging this year will be occurring in a variety of locations throughout Little Lake Butte des Morts. However, for the first time in this project, our work will extend into the lake north of the Hwy. 10/441 bridge. As you are one of our neighbors to the north, we wanted to make sure to inform you of this upcoming work that is expected to begin shortly after the Fourth of July and that will be focused mostly along the western shoreline. Enclosed is our project timeline that shows where we are working this year and generally where the pipeline is or will be located to transport sediment back to our staging area. Please note that the highlighted text describes the work north of the bridge that will be occurring in the next couple of months.

Additionally, we wanted this letter to serve as a reminder for you and all lake users to be aware of the project and its dredging equipment and floating pipelines, which will be in your area of the lake. All lake users will have access to this area of the lake at all times, but, as always, it is important to follow the signs and safety markers when navigating this area over the next few months. For easy reference, enclosed please find a fact sheet on the safety markers.

If you have any questions or would like more information, please feel free to contact us at 920-912-5065 or littlelakecleanup@execpc.com. More information can also be found at www.littlelakecleanup.com. Thank you for your continued interest and cooperation in the cleanup of Little Lake Butte des Morts.

Sincerely,

A handwritten signature in black ink that reads "Bill Hartman". The signature is written in a cursive style and is enclosed in a light gray rectangular box.

Bill Hartman

Enclosures

Riparian Contact List
Lower Fox River Operable Unit 1

First Name	Last Name	Address	City	State	Zip
		Current Resident	2353 W. Prospect Ave	Appleton	WI 54915
Eric	Akey	or Current Resident	1749 W. Butte Des Morts Beach Rd.	Neenah	WI 54956
Raymond	Albrecht	or Current Resident	108 Fox Street	Menasha	WI 54952
Robert	Albrecht	or Current Resident	241 Butte des Morts Drive	Menasha	WI 54952
Donald	Alesch	or Current Resident	240 4th Street	Menasha	WI 54952
James	Allender	or Current Resident	736 Tayco Street	Menasha	WI 54952
Richard	Anderson	or Current Resident	624 Tayco Street	Menasha	WI 54952
James & Martha	Andrew	or Current Resident	1178 Pages Point Rd.	Menasha	WI 54952
Joshua	Arndt	or Current Resident	838 Emily Street	Menasha	WI 54952
Ronald	Arno	or Current Resident	208 Frederick Street	Menasha	WI 54952
Steve	Baldovin	or Current Resident	229 Sunset Drive	Menasha	WI 54952
Charles	Ball	or Current Resident	2193 Sunrise Dr. #6-H	Appleton	WI 54914
Donald	Barker	or Current Resident	760 Lakecrest Drive	Menasha	WI 54952
Kurt	Barnes	or Current Resident	2413 W. Palisades Dr.	Appleton	WI 54915
Joseph & Bernadette	Bartolameolli	or Current Resident	1496 Lakeshore Drive	Menasha	WI 54952
Patrick	Basler	or Current Resident	834 Tayco Street	Menasha	WI 54952
Christopher	Batley	or Current Resident	804 Tayco Street	Menasha	WI 54952
Carolyn	Bauer	or Current Resident	2231 Sunrise Dr.	Appleton	WI 54915
		Current Resident	737 Lakecrest Drive	Menasha	WI 54952
Delbert & Leverne	Beck	or Current Resident	W6318 Manitowoc Road	Appleton	WI 54915
Timothy	Begun	or Current Resident	2596 W. Palisades Dr.	Menasha	WI 54952
		Current Resident	1611 W. Butte Des Morts Beach Rd.	Neenah	WI 54956
Joseph	Beisenstein	or Current Resident	W6789 Firelane Dr.	Menasha	WI 54952
Thomas	Beson	or Current Resident	138 Water Street	Menasha	WI 54952
Lawrence & Juana	Bevers	or Current Resident	1130 Lakeshore Drive	Menasha	WI 54952
Roger	Biechler	or Current Resident	100 Lock Street	Menasha	WI 54952
Roger	Biechler	or Current Resident	98 Broad Street	Menasha	WI 54952
Duane	Birling	or Current Resident	212 W. 4th Street	Menasha	WI 54952
Timothy	Blob	or Current Resident	201 Lake Street	Menasha	WI 54952
Douglas	Bodway	or Current Resident	100 Water Street	Menasha	WI 54952
Joseph and Peter	Boehnlein	or Current Resident	1504 Driftwood Way	Menasha	WI 54952
Joanne	Bogenschutz	or Current Resident	908 N. Superior	Appleton	WI 54911
Darwin & Barbara	Bork	or Current Resident	2177 Sunrise Dr.	Appleton	WI 54914
Debra	Bowers	or Current Resident	126 Broad Street	Menasha	WI 54952
Mark	Bray	or Current Resident	1637 W. Butte Des Morts Beach Rd.	Neenah	WI 54956
Mark	Brettingen	or Current Resident	1410 Lakeshore Drive	Menasha	WI 54952
Timothy	Britzke	or Current Resident	928 Tayco Road	Menasha	WI 54952
Donald	Brock	or Current Resident	822 Emily Street	Menasha	WI 54952
Dale & Marcia	Broeren	or Current Resident	1555 W. Butte Des Morts Beach Rd.	Neenah	WI 54956
Richard	Brucks	or Current Resident	236 Butte des Morts Drive	Menasha	WI 54952
Nancy	Buchanan	or Current Resident	1944 Palisades Dr.	Appleton	WI 54915
		Current Resident	2415 Stroebe Island Dr.	Appleton	WI 54915
Cindy	Budiac	or Current Resident	240 Edgewater Drive	Menasha	WI 54952
Norbert & Mildred	Buhl	or Current Resident	216 Frederick Street	Menasha	WI 54952
Chester	Burak	or Current Resident	2129 Sunrise Dr.	Appleton	WI 54915
Elaine	Buss	or Current Resident	2795 Fox Run	Appleton	WI 54915
		Current Resident	2229 Sunrise Dr.	Appleton	WI 54915
Daniel	Callaway	or Current Resident	242 Lake Street	Menasha	WI 54952
Carlton & Marcella	Campshure	or Current Resident	814 Emily Street	Menasha	WI 54952
Jean	Carew	or Current Resident	1010 E. Waverly Drive	Arlington Heights	IL 60004
Rosemary	Carr	or Current Resident	2229 W. Palisades Dr.	Appleton	WI 54915
Michael	Carroll	or Current Resident	1170 Pages Point Rd.	Menasha	WI 54952
Thomas	Cashman	or Current Resident	1604 Lakeshore Drive	Menasha	WI 54952
Robert	Caston	or Current Resident	1815 W. Butte Des Morts Beach Rd.	Neenah	WI 54956
Robert	Celsor	or Current Resident	214 Lake Street	Menasha	WI 54952
Leo & Cheryl	Chackai	or Current Resident	1671 W. Butte Des Morts Beach Rd.	Neenah	WI 54956
David	Chaganos	or Current Resident	650 Tayco Street	Menasha	WI 54952
Steven	Chasse	or Current Resident	2245 Sunrise Dr.	Appleton	WI 54915
Jean	Chew	or Current Resident	241 Sunset Drive	Menasha	WI 54952
Robert	Christensen	or Current Resident	2417 W. Palisades Dr.	Appleton	WI 54915
Tara	Christison	or Current Resident	209 Frederick Street	Menasha	WI 54952
James	Clark	or Current Resident	129 First Street	Menasha	WI 54952
Steven	Clark	or Current Resident	1593 W. Butte Des Morts Beach Rd.	Neenah	WI 54956
Sherry	Clevenger	or Current Resident	116 Fox Street	Menasha	WI 54952
Aaron	Colby	or Current Resident	216 4th Street	Menasha	WI 54952
Christopher	Conklin	or Current Resident	1300 Lakeshore Drive	Menasha	WI 54952
Paul	Coonen	or Current Resident	218 Lake Street	Menasha	WI 54952
Janice	Cordes	or Current Resident	1819 W. Butte Des Morts Beach Rd.	Neenah	WI 54956
James	Courtney	or Current Resident	1558 Lakeshore Drive	Menasha	WI 54952
George	Crowell	or Current Resident	705 Lakecrest Drive	Menasha	WI 54952
Marilyn	Cyr	or Current Resident	1290 Lakeshore Drive	Menasha	WI 54952

First Name	Last Name		Address	City	State	Zip
Daniel & Etal	Dahms	or Current Resident	912 Tayco Road	Menasha	WI	54952
Mark	Dalman	or Current Resident	2193 Sunrise Dr. #6-F	Appleton	WI	54914
Sylvia	Damrow	or Current Resident	2455 Stroebe Island Dr.	Appleton	WI	54915
Robert	Davison	or Current Resident	2249 Sunrise Dr.	Appleton	WI	54915
Mario	De La Cruz	or Current Resident	846 Tayco Street	Menasha	WI	54952
Elizabeth	Derus	or Current Resident	236 Sunset Drive	Menasha	WI	54952
Evelyn	Dietz	or Current Resident	120 Broad Street	Menasha	WI	54952
Mike	Dillon	or Current Resident	1451 McMahon Drive	Neenah	WI	54956
Helen	Doberstein	or Current Resident	2169 Sunrise Dr.	Appleton	WI	54915
Harold & Hazel	Donnelly	or Current Resident	1096 Lakeshore Drive	Menasha	WI	54952
Steven & Mary	Dorn	or Current Resident	2243 W. Palisades Dr.	Appleton	WI	54915
Lawrence	Dorn	or Current Resident	1490 Lakeshore Drive	Menasha	WI	54952
Dwayne	Dorschner	or Current Resident	62 Fox Street	Menasha	WI	54952
Bruce & Anne	Douglas	or Current Resident	2385 W. Prospect Ave	Appleton	WI	54915
Michelle	Downing	or Current Resident	135 Broad Street	Menasha	WI	54952
Thomas	Duffy	or Current Resident	2355 Tannenbaum Tr.	Appleton	WI	54915
Patrick	Dufrane	or Current Resident	610 Tayco Street	Menasha	WI	54952
Clifford	Ebben	or Current Resident	224 4th Street	Menasha	WI	54952
Howard & Shirl	Eck	or Current Resident	1276 Lakeshore Drive	Menasha	WI	54952
Gary	Eckes	or Current Resident	1807 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
David	Edler	or Current Resident	105 First Street	Menasha	WI	54952
Doris	Ehlers	or Current Resident	232 Sunset Drive	Menasha	WI	54952
Grant	Engebos	or Current Resident	1684 Lakeshore Drive	Menasha	WI	54952
William & Harriet	Erchul	or Current Resident	1662 Lakeshore Drive	Menasha	WI	54952
Franklin	Erdmann	or Current Resident	117 First Street	Menasha	WI	54952
Catherine	Etheridge	or Current Resident	232 Edgewater Drive	Menasha	WI	54952
Elizabeth	Euclide	or Current Resident	416 Tayco Street	Menasha	WI	54952
Florence	Fahrbach	or Current Resident	1286 Lakeshore Drive	Menasha	WI	54952
William	Fanstett	or Current Resident	226 Butte des Morts Drive	Menasha	WI	54952
Timothy	Flaherty	or Current Resident	547 East Wisconsin	Neenah	WI	54956
Edward	Flynn	or Current Resident	1356 Lakeshore Drive	Menasha	WI	54952
Brian	Follett	or Current Resident	2525 W. Prospect Ave	Appleton	WI	54915
Timothy	Forster	or Current Resident	2630 W. Palisades Dr.	Menasha	WI	54952
Wendell & Lynda	Foss	or Current Resident	926 Tayco Road	Menasha	WI	54952
Nathan	Foth	or Current Resident	104 Fox Street	Menasha	WI	54952
Delfino	Franco	or Current Resident	709 Lakecrest Drive	Menasha	WI	54952
Joseph	Franzoi	or Current Resident	1048 Lakeshore Drive	Menasha	WI	54952
Alex	Fraundorf	or Current Resident	211 Broad Street	Menasha	WI	54952
Elizabeth	Funk	or Current Resident	647 Lakecrest Drive	Menasha	WI	54952
Chad & Heather	Funk	or Current Resident	908 Tayco Road	Menasha	WI	54952
Patrick	Gambsky	or Current Resident	120 Riverview Court	Appleton	WI	54915
Calvin & Mary	Gardner	or Current Resident	1056 Lakeshore Drive	Menasha	WI	54952
Robert & Lynn	Gartzke	or Current Resident	236 7th Street	Menasha	WI	54952
Debra	Garvey	or Current Resident	2193 Sunrise Dr. #6-P	Appleton	WI	54914
Richard & Bernice	Gawinski	or Current Resident	1730 Lakeshore Drive	Menasha	WI	54952
Darrell	Giese	or Current Resident	1632 Lakeshore Drive	Menasha	WI	54952
Edmund	Gilson	or Current Resident	2455 W. Prospect Ave	Appleton	WI	54915
Marcia	Goaley	or Current Resident	2193 Sunrise Dr. #6-M	Appleton	WI	54914
Carole	Gohl	or Current Resident	1424 Lakeshore Drive	Menasha	WI	54952
Timothy	Gosz	or Current Resident	98 Fox Street	Menasha	WI	54952
Marvin & Linda	Gosz	or Current Resident	712 Tayco Street	Menasha	WI	54952
Michael & Linda	Gosz	or Current Resident	2614 W. Palisades Dr.	Menasha	WI	54952
Eugene & Elaine	Gregoire	or Current Resident	918 Emily Street	Menasha	WI	54952
		Current Resident	748 Lakecrest Drive	Menasha	WI	54952
Dan & Bernyce	Gressler	or Current Resident	1318 Lakeshore Drive	Menasha	WI	54952
Gary & Pamela	Griesbach	or Current Resident	1266 Lakeshore Drive	Menasha	WI	54952
Thomas	Groh	or Current Resident	222 Butte des Morts Drive	Menasha	WI	54952
Robert & Nancy	Hackinson	or Current Resident	2183 Sunrise Dr.	Appleton	WI	54914
Michael & Linda	Hadler	or Current Resident	2560 W. Palisades Dr.	Menasha	WI	54952
David & Karen	Hanson	or Current Resident	724 Lakecrest Drive	Menasha	WI	54952
Jordan	Hanson	or Current Resident	1124 Lakeshore Drive	Menasha	WI	54952
Lyle & Barbara	Hanson	or Current Resident	1744 Lakeshore Drive	Menasha	WI	54952
Herbert	Hardt	or Current Resident	2171 Sunrise Dr.	Appleton	WI	54914
Randy	Haufe	or Current Resident	103 Broad Street	Menasha	WI	54952
Rita	Heath	or Current Resident	119 Kaukauna Street	Menasha	WI	54952
Debra	Hedtke	or Current Resident	208 4th Street	Menasha	WI	54952
Bruce	Heisel	or Current Resident	88 Lock Street	Menasha	WI	54952
Gladys	Helminski	or Current Resident	1731 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Joseph	Hemme	or Current Resident	854 Tayco Street	Menasha	WI	54952
		Current Resident	217 Lake Street	Menasha	WI	54952
Charles	Herman	or Current Resident	204 4th Street	Menasha	WI	54952
Thomas	Heuer	or Current Resident	2108 Woodlawn Lane	Appleton	WI	54915
Edward	Hirsch	or Current Resident	655 Lakecrest Drive	Menasha	WI	54952
David	Hodkiewicz	or Current Resident	232 4th Street	Menasha	WI	54952
		Current Resident	2515 W. Prospect Ave	Appleton	WI	54915

First Name	Last Name		Address	City	State	Zip
Jeanine	Holschbach	or Current Resident	706 Tayco Street	Menasha	WI	54952
Steven & Judith	Holtz	or Current Resident	1260 Lakeshore Drive	Menasha	WI	54952
John	Hornke Jr.	or Current Resident	1338 Lakeshore Drive	Menasha	WI	54952
Donna	Houg	or Current Resident	196 4th Street	Menasha	WI	54952
David	Huelsbeck	or Current Resident	1619 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Cheryl	Humleker	or Current Resident	2953 Fox Run	Appleton	WI	54915
Andrea	Hummel	or Current Resident	1710 Lakeshore Drive	Menasha	WI	54952
Leslie & Joyce	Ison	or Current Resident	1780 Lakeshore Drive	Menasha	WI	54952
Chad	Jankowski	or Current Resident	920 Tayco Road	Menasha	WI	54952
Joseph & Jeanine	Jankowski	or Current Resident	1106 Lakeshore Drive	Menasha	WI	54952
Steven & Marcia	Jansen	or Current Resident	646 Lakecrest Drive	Menasha	WI	54952
Thomas	Jarosinski	or Current Resident	1326 Lakeshore Drive	Menasha	WI	54952
Timothy	Jennings	or Current Resident	228 Sunset Drive	Menasha	WI	54952
James	Jensen	or Current Resident	233 Lake Street	Menasha	WI	54952
Lance & Debra	Johanneson	or Current Resident	1436 Lakeshore Drive	Menasha	WI	54952
Robert	Johnson	or Current Resident	2343 Tannenbaum Tr.	Appleton	WI	54915
Barbara	Johnson	or Current Resident	922 Tayco Road	Menasha	WI	54952
Paul & Gertrude	Johnson	or Current Resident	1312 Lakeshore Drive	Menasha	WI	54952
		Current Resident	2425 Stroebe Island Dr.	Appleton	WI	54915
Lisa	Joo	or Current Resident	400 Tayco Street	Menasha	WI	54952
Gary	Joosten	or Current Resident	122 Water Street	Menasha	WI	54952
Steven	Kamba	or Current Resident	1735 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Marian	Kamba	or Current Resident	1771 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Russell	Kandevitd	or Current Resident	1801 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Richard	Kennedy	or Current Resident	2423 W. Palisades Dr.	Appleton	WI	54915
Suzanne	Kewley	or Current Resident	2755 Fox Run	Appleton	WI	54914
Anthony	Khur	or Current Resident	235 Bullard Ct.	Menasha	WI	54952
Robert	King III	or Current Resident	240 Sunset Drive	Menasha	WI	54952
Daniel	Kirk	or Current Resident	115 First Street	Menasha	WI	54952
Don & Peggy	Kloepfel	or Current Resident	1326 Lakeshore Drive	Menasha	WI	54952
Daniel & Joan	Knaack	or Current Resident	2161 Sunrise Dr.	Appleton	WI	54915
Jack	Knorr	or Current Resident	660 Tayco Street	Menasha	WI	54952
		Current Resident	90 Fox Street	Menasha	WI	54952
Kelli	Kobal	or Current Resident	229 Lake Street	Menasha	WI	54952
		Current Resident	54 Fox Street	Menasha	WI	54952
Carl	Kolasinski	or Current Resident	232 Frederick Street	Menasha	WI	54952
Frank	Kolasinsky	or Current Resident	213 Lake Street	Menasha	WI	54952
David	Kollath	or Current Resident	243 Edgewater Drive	Menasha	WI	54952
Thomas	Konetzke	or Current Resident	858 Emily Street	Menasha	WI	54952
Angeline	Konetzke	or Current Resident	222 Lake Street	Menasha	WI	54952
James & Carol	Konetzke	or Current Resident	121 Kaukauna Street	Menasha	WI	54952
Steven & Debra	Kons	or Current Resident	209 Lake Street	Menasha	WI	54952
Randall	Kowalke	or Current Resident	1400 Lakeshore Drive	Menasha	WI	54952
Gordon Clark	Krohn	or Current Resident	1583 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Terry & Angela	Kuehl	or Current Resident	160 Riverview Court	Appleton	WI	54915
Jack	Kugler	or Current Resident	1194 Pages Point Rd.	Menasha	WI	54952
Steve	Kuhlow	or Current Resident	404 Tayco Street	Menasha	WI	54952
Kay	Kuhr	or Current Resident	1550 Lakeshore Drive	Menasha	WI	54952
Jerome	Kunze	or Current Resident	1601 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Lisa	Kuss	or Current Resident	85 Lush Street	Menasha	WI	54952
Susan	Laemmrich	or Current Resident	2550 W. Palisades Dr.	Appleton	WI	54915
Gary	Laeyendecker	or Current Resident	648 Lakecrest Drive	Menasha	WI	54952
Alan	Lamia	or Current Resident	858 Tayco Street	Menasha	WI	54952
Bradley	Landrath	or Current Resident	1565 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Rick	Langoff	or Current Resident	230 Lake Street	Menasha	WI	54952
Gary	Lanser	or Current Resident	1090 Lakeshore Drive	Menasha	WI	54952
Joan	Larsen	or Current Resident	1104 Lakeshore Drive	Menasha	WI	54952
Paul	Laurent	or Current Resident	842 Emily Street	Menasha	WI	54952
Paul	Laus	or Current Resident	2333 W. Palisades Dr.	Appleton	WI	54915
Carol	Leahy	or Current Resident	1086 Lakeshore Drive	Menasha	WI	54952
Jon	Leblanc	or Current Resident	1703 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Patrick	Lee	or Current Resident	212 Frederick Street	Menasha	WI	54952
		Current Resident	732 Tayco Street	Menasha	WI	54952
Aly Fleischer	Leifermann	or Current Resident	910A Tayco Road	Menasha	WI	54952
Peter	Leininger	or Current Resident	241 Frederick Street	Menasha	WI	54952
Jonathan	Lemieux	or Current Resident	82 Fox Street	Menasha	WI	54952
Gary	Lenius	or Current Resident	2586 W. Palisades Dr.	Menasha	WI	54952
Jerrald	Lincoln	or Current Resident	101 Broad Street	Menasha	WI	54952
Lorraine	Lindquist	or Current Resident	637 Lakecrest Drive	Menasha	WI	54952
Steven & Sandra	Lipina	or Current Resident	150 Riverview Court	Appleton	WI	54915
Steven & Betty	Lockhart	or Current Resident	2315 Tannenbaum Tr.	Appleton	WI	54915
Robert	Loomis	or Current Resident	2530 W. Palisades Dr.	Appleton	WI	54915
Mark	Lorge	or Current Resident	819 Emily Street	Menasha	WI	54952
Larry	Lossel Yong	or Current Resident	729 Lakecrest Drive	Menasha	WI	54952
Thomas	Luther	or Current Resident	1936 Palisades Dr.	Appleton	WI	54915

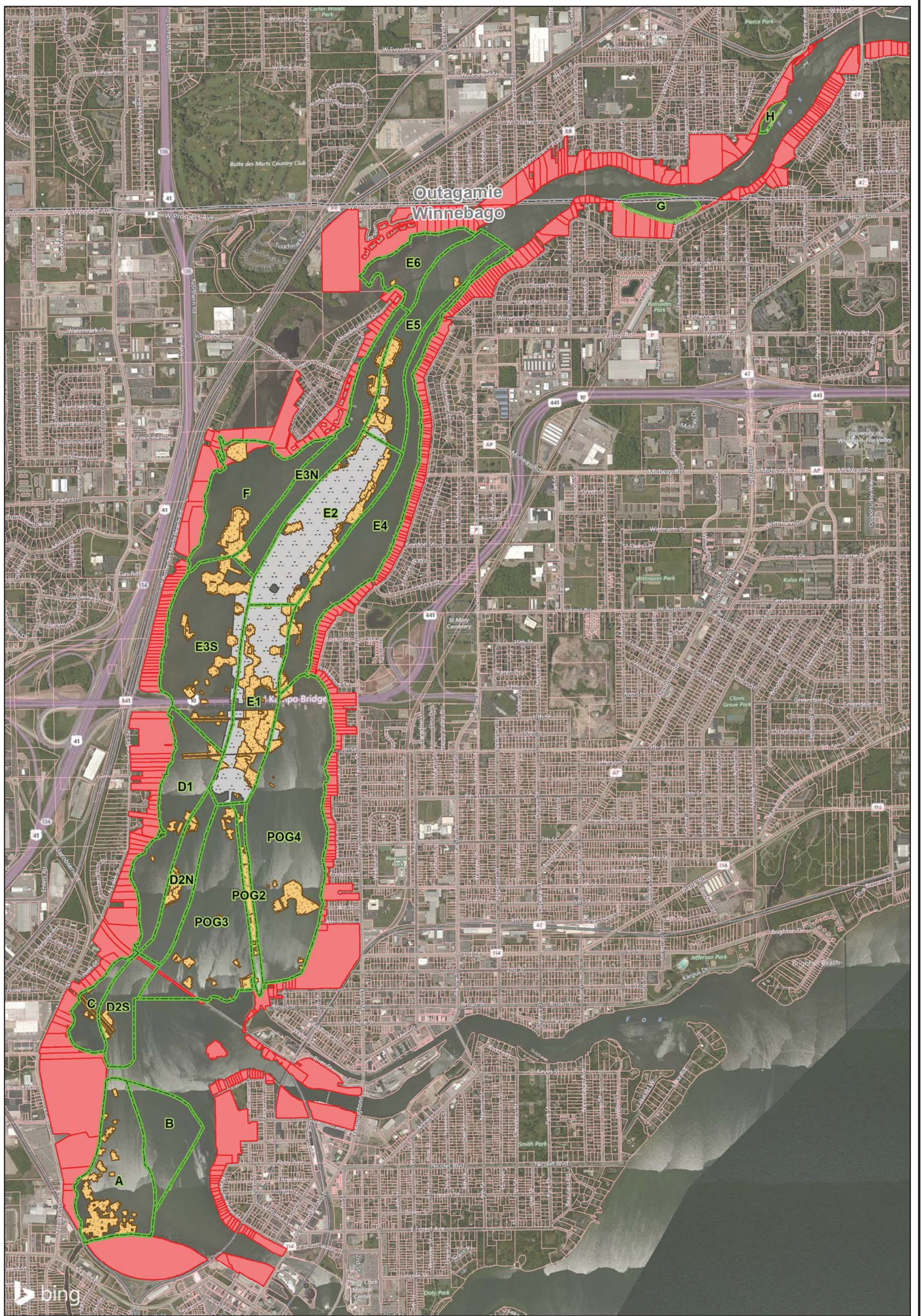
First Name	Last Name		Address	City	State	Zip
James	Maas	or Current Resident	58 Fox Street	Menasha	WI	54952
Jeanine	Maas	or Current Resident	121 Broad Street	Menasha	WI	54952
Lois Jane	Macho	or Current Resident	130 Riverview Court	Appleton	WI	54915
Nasreen	Majid	or Current Resident	2425 W. Prospect Ave	Appleton	WI	54914
Joseph & Paula	Malone	or Current Resident	2505 W. Prospect Ave	Appleton	WI	54915
Jack & Patricia	Manchester	or Current Resident	224 Edgewater Drive	Menasha	WI	54952
Jeffrey	Maroszek	or Current Resident	1677 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
John	Marra	or Current Resident	846 Emily Street	Menasha	WI	54952
Richard	Martell	or Current Resident	2433 W. Palisades Dr.	Appleton	WI	54915
Elmer	Martell	or Current Resident	651 Lakecrest Drive	Menasha	WI	54952
Paul Richard	Martin	or Current Resident	2801 Fox Run	Appleton	WI	54915
Trevor	Martin	or Current Resident	728 Tayco Street	Menasha	WI	54952
Carl	Mueller	or Current Resident	704 Tayco Street	Menasha	WI	54952-2246
William	McFadden	or Current Resident	854 Emily Street	Menasha	WI	54952
David & Mary	McKay	or Current Resident	3085 Fox Run	Appleton	WI	54915
Andrew & Janelle	McMyler	or Current Resident	1382 Lakeshore Drive	Menasha	WI	54952
Patrick	McNamee	or Current Resident	805 Emily Street	Menasha	WI	54952
Scott & Kathryn	McQuillan	or Current Resident	1076 Lakeshore Drive	Menasha	WI	54952
John & Sally	Meiers	or Current Resident	1294 Lakeshore Drive	Menasha	WI	54952
Carlos & Margaret	Mendez	or Current Resident	1600 Northridge Ct.	Menasha	WI	54952
Wilbur	Merkley	or Current Resident	800 Tayco Street	Menasha	WI	54952
Richard	Messman	or Current Resident	94 Fox Street	Menasha	WI	54952
Glorianne	Meyer	or Current Resident	822 Tayco Street	Menasha	WI	54952
Linda	Meyer	or Current Resident	244 Butte des Morts Drive	Menasha	WI	54952
Daren & Margo	Miller	or Current Resident	914 Tayco Road	Menasha	WI	54952
Carl	Miller	or Current Resident	231 Bullard Ct.	Menasha	WI	54952
Henry Charles	Mills	or Current Resident	2331 Tannenbaum Tr.	Appleton	WI	54915
Linda	Mirek	or Current Resident	213 Frederick Street	Menasha	WI	54952
Steven	Mitchell	or Current Resident	124 Broad Street	Menasha	WI	54952
Dale & Katherine	Mitchell	or Current Resident	1100 Lakeshore Drive	Menasha	WI	54952
Jeffrey	Mohr	or Current Resident	116 Broad Street	Menasha	WI	54952
James	Morgan	or Current Resident	604 Tayco Street	Menasha	WI	54952
John	Morth	or Current Resident	132 Broad Street	Menasha	WI	54952
Ann	Mrotek	or Current Resident	2443 W. Palisades Dr.	Appleton	WI	54915
Bruce & Robin	Munger	or Current Resident	1282 Lakeshore Drive	Menasha	WI	54952
Brett	Munson	or Current Resident	236 4th Street	Menasha	WI	54952
Jon	Muska	or Current Resident	92 Lock Street	Menasha	WI	54952
Perry	Nadolney	or Current Resident	211 First Street	Menasha	WI	54952
Rodney	Nap	or Current Resident	2239 Sunrise Dr.	Appleton	WI	54915
Ellen	Needham	or Current Resident	1940 Palisades Dr.	Appleton	WI	54915
Jessica	Newling	or Current Resident	217 Frederick Street	Menasha	WI	54952
Richard	Nichols	or Current Resident	225 Frederick Street	Menasha	WI	54952
Gregory	Noffke	or Current Resident	1525 Bowen Street	Oshkosh	WI	54901
Jeffrey	Noie	or Current Resident	228 Frederick Street	Menasha	WI	54952
Clifford	Nyman	or Current Resident	644 Lakecrest Drive	Menasha	WI	54952-2229
Colleen Mary	Obrien	or Current Resident	2540 W. Palisades Dr.	Appleton	WI	54915
Jerome & Diane	Obright	or Current Resident	1138 Lakeshore Drive	Menasha	WI	54952
Ward	Ochs	or Current Resident	2193 Sunrise Dr. #6-L	Appleton	WI	54914
James & Susan	Oleary	or Current Resident	348 Naymut Street	Menasha	WI	54952
Javier	Ontiveros	or Current Resident	200 Lake Street	Menasha	WI	54952
Bryan	Orm	or Current Resident	200 Broad Street	Menasha	WI	54952
Robert	Orth	or Current Resident	1 Systems Drive	Appleton	WI	54914
James & Marilyn	Orvedahl	or Current Resident	1776 Lakeshore Drive	Menasha	WI	54952
Stephen	Osterberg	or Current Resident	930 Tayco Road	Menasha	WI	54952
Clarence & Kristin	Ostrowski	or Current Resident	666 Fieldcrest Drive	Neenah	WI	54956
Mathew	Otto	or Current Resident	235 Edgewater Drive	Menasha	WI	54952
Dennis & Carla	Oudenhoven	or Current Resident	2570 W. Palisades Dr.	Menasha	WI	54952
Steven	Pack	or Current Resident	823 Emily Street	Menasha	WI	54952
Gerald	Pack	or Current Resident	125 Broad Street	Menasha	WI	54952
Phil	Palmer	or Current Resident	632 Tayco Street	Menasha	WI	54952
John & Carol	Pankratz	or Current Resident	2255 Sunrise Dr.	Appleton	WI	54915
Kenneth	Parish	or Current Resident	180 Riverview Court	Appleton	WI	54915
Scott	Park	or Current Resident	850 Emily Street	Menasha	WI	54952
Gary	Pasholk	or Current Resident	241 Lake Street	Menasha	WI	54952
Winifred	Pawlowski	or Current Resident	233 Sunset Drive	Menasha	WI	54952
Tracy	Perkins	or Current Resident	227 Edgewater Drive	Menasha	WI	54952
Thomas	Perras	or Current Resident	1600 Lakeshore Drive	Menasha	WI	54952
Richard	Peterson	or Current Resident	236 Bullard Ct.	Menasha	WI	54952
Michael	Pfefferle	or Current Resident	2173 Sunrise Dr.	Appleton	WI	54914
Edward	Pickering	or Current Resident	1761 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Stephen	Pierce	or Current Resident	56 Lush Street	Menasha	WI	54952
		Current Resident	2395 Stroebbe Island Dr.	Appleton	WI	54915
Michael	Pomrening	or Current Resident	2243 Sunrise Dr.	Appleton	WI	54915
		Current Resident	1791 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Vincent	Portaro	or Current Resident	2323 W. Palisades Dr.	Appleton	WI	54915

First Name	Last Name		Address	City	State	Zip
Michael	Porter	or Current Resident	827 Emily Street	Menasha	WI	54952
Christopher	Prato	or Current Resident	1832 Lakeshore Drive	Menasha	WI	54952
Kenneth	Priebe	or Current Resident	1478 Lakeshore Drive	Menasha	WI	54952
Charles	Quartana	or Current Resident	2131 Sunrise Dr.	Appleton	WI	54914
Ryan	Quick	or Current Resident	847 Emily Street	Menasha	WI	54952
Natalie	Raaths	or Current Resident	1234 Lakeshore Drive	Menasha	WI	54952
Jessica	Radke	or Current Resident	205 Lake Street	Menasha	WI	54952
Robert	Randa	or Current Resident	2193 Sunrise Dr. #6-A	Appleton	WI	54914
Victor & Kathryn	Ratchman	or Current Resident	917 Emily Street	Menasha	WI	54952
Arnold	Reis	or Current Resident	236 Frederick Street	Menasha	WI	54952
Jeromen	Reitzner	or Current Resident	906 Tayco Road	Menasha	WI	54952
Mae	Relien	or Current Resident	240 Frederick Street	Menasha	WI	54952
Jeffrey	Resch	or Current Resident	227 Butte des Morts Drive	Menasha	WI	54952
Thomas	Reuss	or Current Resident	1629 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Duane Robert Gabel Revoc Living Trust		or Current Resident	2193 Sunrise Dr. #6-N	Appleton	WI	54914
Willard	Riehl	or Current Resident	1250 Lakeshore Drive	Menasha	WI	54952
Mary	Riley	or Current Resident	853 Emily Street	Menasha	WI	54952
Daniel	Roberts	or Current Resident	123 Kaukauna Street	Menasha	WI	54952
Peggy Jane	Robson	or Current Resident	744 Lakecrest Drive	Menasha	WI	54952
Neal & Cindy	Roebke	or Current Resident	229 Frederick Street	Menasha	WI	54952
Robert	Roger	or Current Resident	1462 Lakeshore Drive	Menasha	WI	54952
Walter & Bonnie	Rogers	or Current Resident	101 First Street	Menasha	WI	54952
Glenn	Rogers	or Current Resident	676 S. Western Ave	Neenah	WI	54956
William	Rohde	or Current Resident	109 First Street	Menasha	WI	54952
Kenneth	Romenesko	or Current Resident	2253 Sunrise Dr.	Appleton	WI	54915
David	Rocks	or Current Resident	225 Lake Street	Menasha	WI	54952
Mathew	Roos	or Current Resident	628 Tayco Street	Menasha	WI	54952
Travis	Rutter	or Current Resident	201 Broad Street	Menasha	WI	54952
James	Ryan	or Current Resident	2141 Sunrise Dr.	Appleton	WI	54915
Gary	Sanders	or Current Resident	80 Fox Street	Menasha	WI	54952
Bernard	Sandlin	or Current Resident	219 Edgewater Drive	Menasha	WI	54952
Kevin & Marlene	Sargalis	or Current Resident	1766 Lakeshore Drive	Menasha	WI	54952
Marilyn	Schaeuble	or Current Resident	117 River Street	Menasha	WI	54952
David	Schanke	or Current Resident	1812 Lakeshore Drive	Menasha	WI	54952
Peter	Schipferling	or Current Resident	654 Tayco Street	Menasha	WI	54952
Roger	Schlomann	or Current Resident	1452 Lakeshore Drive	Menasha	WI	54952
Cathy	Schmidt	or Current Resident	1700 Lakeshore Drive	Menasha	WI	54952
Thomas	Schmidt	or Current Resident	1607 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Nicholas	Schmidt	or Current Resident	1693 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Catherine	Schmitt	or Current Resident	220 Edgewater Drive	Menasha	WI	54952
Rev. James	Schmitz	or Current Resident	616 Tayco Street	Menasha	WI	54952
Donald	Schneider	or Current Resident	2193 Sunrise Dr. #6-E	Appleton	WI	54914
Marilyn	Schubert	or Current Resident	704 Lakecrest Drive	Menasha	WI	54952
Roy	Schumacher	or Current Resident	2486 Stroebe Island Dr.	Appleton	WI	54915
Luke	Schumacher	or Current Resident	206 Lake Street	Menasha	WI	54952
C. David	Schwaegler	or Current Resident	810 Emily Street	Menasha	WI	54952
Robert	Schwanke	or Current Resident	633 Lakecrest Drive	Menasha	WI	54952
Cynthia	Seidl	or Current Resident	1645 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Mark & Cindy	Seif	or Current Resident	120 Water Street	Menasha	WI	54952
Mark	Seifert	or Current Resident	123 First Street	Menasha	WI	54952
Gary	Selsmeyer	or Current Resident	236 Lake Street	Menasha	WI	54952
Colleen	Sheahan	or Current Resident	100 First Street	Menasha	WI	54952
Stephen	Shepard	or Current Resident	2951 Fox Run	Appleton	WI	54915
John	Shillinglaw	or Current Resident	1952 Palisades Dr.	Appleton	WI	54915
Selwyn	Shmitt	or Current Resident	2175 Sunrise Dr.	Appleton	WI	54915
Vernon & Gail	Shukoski	or Current Resident	170 Riverview Court	Appleton	WI	54915
Dale	Siebers	or Current Resident	834 Emily Street	Menasha	WI	54952
Andrew	Siebers	or Current Resident	835 Emily Street	Menasha	WI	54952
Anne	Sigl	or Current Resident	232 Butte des Morts Drive	Menasha	WI	54952
Robert	Sigman	or Current Resident	2193 Sunrise Dr. #6-D	Appleton	WI	54914
Francis	Simonis	or Current Resident	700 Lakecrest Drive	Menasha	WI	54952
Jeffrey	Sipp	or Current Resident	1624 Lakeshore Drive	Menasha	WI	54952
Richard	Skibba	or Current Resident	1066 Lakeshore Drive	Menasha	WI	54952
Stanley & Helen	Smarzinski	or Current Resident	228 Edgewater Drive	Menasha	WI	54952
Donald	Solomon	or Current Resident	224 Ninth Street	Menasha	WI	54952-2210
Thomas	Spilski	or Current Resident	830 Tayco Street	Menasha	WI	54952
Alan	Sprenger	or Current Resident	916 E. Sunset Ave	Appleton	WI	54911
Terry	Springer	or Current Resident	237 Ninth Street	Menasha	WI	54952
Gloria	Springer	or Current Resident	231 Edgewater Drive	Menasha	WI	54952
Mark	St Peter	or Current Resident	808 Tayco Street	Menasha	WI	54952
Ralph & Kristin	Stahl	or Current Resident	924 Tayco Road	Menasha	WI	54952
Carl & Leona	Stapel	or Current Resident	1580 Lakeshore Drive	Menasha	WI	54952
Robert	Stastny	or Current Resident	105 Broad Street	Menasha	WI	54952
		Current Resident	1575 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Charleen	Steenis	or Current Resident	2175 W. Butte Des Morts Beach Rd.	Neenah	WI	54956

First Name	Last Name	Address	City	State	Zip
Richard	Steffens	or Current Resident 243 Bullard Ct.	Menasha	WI	54952
Clyde	Stephenson	or Current Resident 2217 Sunrise Dr.	Appleton	WI	54915
Steven & Peggy Jo	Stevenson	or Current Resident 1653 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Esther	Stice	or Current Resident 1396 Lakeshore Drive	Menasha	WI	54952
Kenneth & Dawn	Stolzman	or Current Resident 1822 Lakeshore Drive	Menasha	WI	54952
William	Streuer	or Current Resident 1842 Lakeshore Drive	Menasha	WI	54952
John	Streuer	or Current Resident 2181 Sunrise Dr.	Appleton	WI	54914
David	Struensee	or Current Resident 224 Frederick Street	Menasha	WI	54952
Lauron	Stuempges	or Current Resident 237 7th Street	Menasha	WI	54952
Kimberly	Suchla	or Current Resident 1687 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Vernon & Debra	Sumnicht	or Current Resident 2909 Fox Run	Appleton	WI	54915
Norbert	Swiecichowski	or Current Resident 233 Frederick Street	Menasha	WI	54952
Anne	Swiontek	or Current Resident 916 Tayco Road	Menasha	WI	54952
Robert	Szewes	or Current Resident 205 Frederick Street	Menasha	WI	54952
Myron & Gay	Tassoul	or Current Resident 1240 Lakeshore Drive	Menasha	WI	54952
John	Therhault	or Current Resident 1717 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Kurt & Rebecca	Theyel	or Current Resident 200 4th Street	Menasha	WI	54952
Lloyd & Margaret	Thiel	or Current Resident 1500 Lakeshore Drive	Menasha	WI	54952
Jeffrey	Thistle	or Current Resident 1376 Lakeshore Drive	Menasha	WI	54952
David	Thompson	or Current Resident 408 Tayco Street	Menasha	WI	54952
Thomas	Timmins	or Current Resident 231 Ninth Street	Menasha	WI	54952
Robert	Turner	or Current Resident 3095 Fox Run	Appleton	WI	54915
Robert	Uffenbeck	or Current Resident 2622 W. Palisades Dr.	Menasha	WI	54952
Jeffrey	Ulman	or Current Resident 404 Nicolet Blvd.	Menasha	WI	54952
Thomas	Vandeyacht	or Current Resident 1536 Lakeshore Drive	Menasha	WI	54952
James & Debra	Vanhandel	or Current Resident 1508 Lakeshore Drive	Menasha	WI	54952
		Current Resident 2275 Tannenbaum Tr.	Appleton	WI	54915
Lance & Kathy	Veon	or Current Resident 1794 Lakeshore Drive	Menasha	WI	54952
Eugene	Verstegen	or Current Resident 814 Tayco Street	Menasha	WI	54952
		Current Resident 2445 Stroebe Island Dr.	Appleton	WI	54915
Michael	Wadzinski	or Current Resident 932 Tayco Road	Menasha	WI	54952
Daniel & Debra	Wagner	or Current Resident 2193 Sunrise Dr. #6-G	Appleton	WI	54914
Colleen	Walsh	or Current Resident 1806 Lakeshore Drive	Menasha	WI	54952
Jennifer	Waters	or Current Resident 412 Tayco Street	Menasha	WI	54952
James	Weber	or Current Resident 2241 Sunrise Dr.	Appleton	WI	54915
Richard	Weber	or Current Resident 508 Tayco Street	Menasha	WI	54952
Charles	Wees	or Current Resident 104 First Street	Menasha	WI	54952
Geraldine	Wehman	or Current Resident 2510 W. Palisades Dr.	Appleton	WI	54915
Cass & Alice	Wehner	or Current Resident 1760 Lakeshore Drive	Menasha	WI	54952
James & Mary	Wehnes	or Current Resident 1670 Lakeshore Drive	Menasha	WI	54952
Ken	Welsh	or Current Resident 78 Fox Street	Menasha	WI	54952
Gloria	Wendt	or Current Resident 228 4th Street	Menasha	WI	54952
Dennis & Mary Ann	Wepfer	or Current Resident 1444 Lakeshore Drive	Menasha	WI	54952
Daniel	Westphal	or Current Resident 712 Lakecrest Drive	Menasha	WI	54952
		Current Resident 736 Lakecrest Drive	Menasha	WI	54952
Preston	Wilbourne	or Current Resident 2193 Sunrise Dr. #6-C	Appleton	WI	54914
Lavern	William	or Current Resident 100 Fox Street	Menasha	WI	54952
Clarence & Adeline	Wilz	or Current Resident 1663 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Charles & Janice	Wilz	or Current Resident 1809 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Hugo & Vera	Wimmer	or Current Resident 2907 Fox Run	Appleton	WI	54915
Donald	Winrich	or Current Resident 2437 Stroebe Island Dr.	Appleton	WI	54915
Terry	Witthuhn	or Current Resident 231 Butte des Morts Drive	Menasha	WI	54952
John	Wittman	or Current Resident 239 Bullard Ct.	Menasha	WI	54952
Dorothy	Wittmann	or Current Resident 233 7th Street	Menasha	WI	54952
Janice	Woehler	or Current Resident 1725 W. Butte Des Morts Beach Rd.	Neenah	WI	54956
Gale	Woelffer	or Current Resident 656 Lakecrest Drive	Menasha	WI	54952
Jody	Wydeven	or Current Resident 220 4th Street	Menasha	WI	54952
Gerald & Susan	Wyhoski	or Current Resident 740 Tayco Street	Menasha	WI	54952
Gary	Wynveen	or Current Resident 2193 Sunrise Dr. #6-I	Appleton	WI	54914
Pao Yang & Mee	Xiong	or Current Resident 221 Lake Street	Menasha	WI	54952
John	Yale	or Current Resident 1270 Lakeshore Drive	Menasha	WI	54952
Moua	Yang	or Current Resident 210 Lake Street	Menasha	WI	54952
Clarence	Yunk	or Current Resident 806 Emily Street	Menasha	WI	54952
David	Zarnoth	or Current Resident 223 Edgewater Drive	Menasha	WI	54952
Ronald	Ziegert	or Current Resident 240 Bullard Ct.	Menasha	WI	54952
Wesley	Zimmer	or Current Resident 220 Frederick Street	Menasha	WI	54952
Scott	Zinda	or Current Resident 1800 Lakeshore Drive	Menasha	WI	54952
Adam	Zschaechner	or Current Resident 232 7th Street	Menasha	WI	54952
United Land Lease Co.		or Current Resident 660 W. Ridgeview Dr.	Appleton	WI	54911
		Current Resident 660 W. Ridgeview Dr.	Appleton	WI	54911
		Current Resident 2213 W. Palisades Dr.	Appleton	WI	54915
		Current Resident 2245 W. Palisades Dr.	Appleton	WI	54915
		Current Resident 2343 W. Prospect Ave	Appleton	WI	54915
		Current Resident 2435 W. Prospect Ave	Appleton	WI	54915
		Current Resident 3019 W. Prospect Ave	Appleton	WI	54915

First Name	Last Name	Address	City	State	Zip
		Current Resident	2285 Tannenbaum Tr.	Appleton	WI 54915
		Current Resident	2151 Sunrise Dr.	Appleton	WI 54915
		Current Resident	2179 Sunrise Dr.	Appleton	WI 54914
Harry & Mildred Rozelle Living Trust		or Current Resident	2185 Sunrise Dr.	Appleton	WI 54914
		Current Resident	2187 Sunrise Dr.	Appleton	WI 54914
		Current Resident	2193 Sunrise Dr. #6-B	Appleton	WI 54914
		Current Resident	2193 Sunrise Dr. #6-J	Appleton	WI 54914
		Current Resident	2193 Sunrise Dr. #6-K	Appleton	WI 54914
		Current Resident	2215 Sunrise Dr.	Appleton	WI 54915
		Current Resident	2233 Sunrise Dr.	Appleton	WI 54915
John F. Barlow Living Trust		Current Resident	2235 Sunrise Dr.	Appleton	WI 54915
		or Current Resident	2703 Fox Run	Appleton	WI 54914
		Current Resident	2705 Fox Run	Appleton	WI 54914
		Current Resident	2751 Fox Run	Appleton	WI 54914
		Current Resident	2757 Fox Run	Appleton	WI 54915
		Current Resident	2785 Fox Run	Appleton	WI 54915
		Current Resident	2787 Fox Run	Appleton	WI 54915
Carlos & Natali Conde Boytel Joint Trust		or Current Resident	2789 Fox Run	Appleton	WI 54915
		Current Resident	2791 Fox Run	Appleton	WI 54915
		Current Resident	2793 Fox Run	Appleton	WI 54915
		Current Resident	2797 Fox Run	Appleton	WI 54915
Glenn & Gretch Ocock Trust		or Current Resident	2803 Fox Run	Appleton	WI 54915
Muriel J. Krablean Trust		or Current Resident	2807 Fox Run	Appleton	WI 54915
Douglas & Darlene Joint Trust		or Current Resident	2809 Fox Run	Appleton	WI 54915
		Current Resident	2903 Fox Run	Appleton	WI 54915
Steven & Kathleen Rieth Trust		or Current Resident	2905 Fox Run	Appleton	WI 54915
		Current Resident	2949 Fox Run	Appleton	WI 54915
Roger & Lois Core Trust		or Current Resident	2955 Fox Run	Appleton	WI 54915
Alcina R. Belter Trust		or Current Resident	3083 Fox Run	Appleton	WI 54915
Jerom & Janic Rovers Living Trust		or Current Resident	3087 Fox Run	Appleton	WI 54915
		Current Resident	3089 Fox Run	Appleton	WI 54915
Mary T. Larsen Living Trust		or Current Resident	3091 Fox Run	Appleton	WI 54915
		Current Resident	3093 Fox Run	Appleton	WI 54915
Mary Hawkinson Trust		or Current Resident	118 S. State Street	Appleton	WI 54911
David L. & Katherine M. Burns Trust		or Current Resident	P.O. Box 266	Appleton	WI 54912
Gus & Helen Jeanne Zuehlke Trust		or Current Resident	P.O. Box 1056	Appleton	WI 54912
Victor Minahan Marital Trust		or Current Resident	4351 W. College Ave	Appleton	WI 54914
WI DOT			944 Vanderperren Way	Green Bay	WI 54952
Better Grovogel Rev Trust		or Current Resident	200 N. Adams Street	Green Bay	WI 54301-5174
Wisconsin Department of Transportation		or Current Resident	P.O. Box 28080	Green Bay	WI 54304
WTM I Company		or Current Resident	3993 Howard Hughes Pkwy	Las Vegas	NV 89109
George Whiting Paper Co		or Current Resident	100 River Street	Menasha	WI 54952
		Current Resident	636 Lakecrest Drive	Menasha	WI 54952-2229
Patricia	Galloway	or Current Resident	650 Lakecrest Drive	Menasha	WI 54952-2229
		Current Resident	701 Lakecrest Drive	Menasha	WI 54952
George N. Wall trust		or Current Resident	728 Lakecrest Drive	Menasha	WI 54952
Hansman Family Trust		or Current Resident	752 Lakecrest Drive	Menasha	WI 54952
		Current Resident	756 Lakecrest Drive	Menasha	WI 54952
		Current Resident	813 Emily Street	Menasha	WI 54952
		Current Resident	636 Tayco Street	Menasha	WI 54952
		Current Resident	908 Tayco Road	Menasha	WI 54952
		Current Resident	236 Edgewater Drive	Menasha	WI 54952
		Current Resident	221 Frederick Street	Menasha	WI 54952
		Current Resident	237 Lake Street	Menasha	WI 54952
		Current Resident	248 Lake Street	Menasha	WI 54952
		Current Resident	104 Broad Street	Menasha	WI 54952
Win. Co. Housing Authority		or Current Resident	108 Broad Street	Menasha	WI 54952
		Current Resident	126 Water Street	Menasha	WI 54952
Greater FC Area Habitat		or Current Resident	1800 Appleton Road	Menasha	WI 54952
Sherden Properties LLC		or Current Resident	1144 Lakeshore Drive	Menasha	WI 54952
		Current Resident	1350 Lakeshore Drive	Menasha	WI 54952
Stafford JT Rev Trust		or Current Resident	1414 Lakeshore Drive	Menasha	WI 54952
		Current Resident	1472 Lakeshore Drive	Menasha	WI 54952
		Current Resident	1516 Lakeshore Drive	Menasha	WI 54952
		Current Resident	1522 Lakeshore Drive	Menasha	WI 54952-1022
		Current Resident	1640 Lakeshore Drive	Menasha	WI 54952
		Current Resident	1750 Lakeshore Drive	Menasha	WI 54952
Nemecek Associates Inc		or Current Resident	1992 Susan Avenue	Neenah	WI 54956
Town of Menasha			2000 Municipal Drive	Neenah	WI 54956
Grand Chute-Menasha West Sewerage Commission		or Current Resident	1965 W. Butte Des Morts Beach Rd.	Neenah	WI 54956
Menasha Corporation		or Current Resident	1645 Bergstrom Road	Neenah	WI 54956

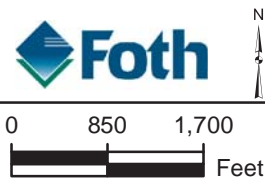
G.2. Parcel Map



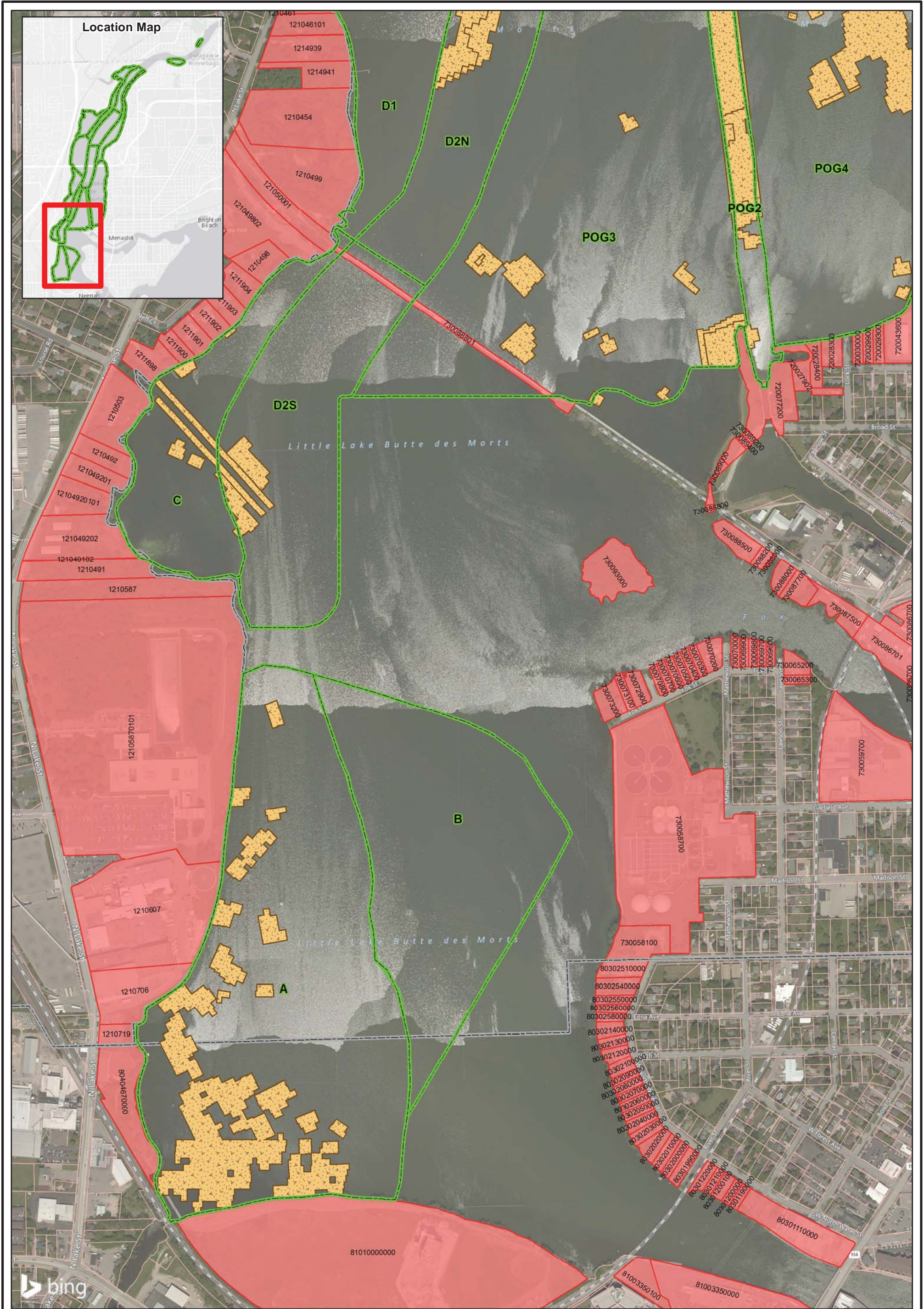
NOTES:
 1. Coordinate System: Wisconsin SPS, NAD83
 2. Parcels supplied by Outagamie Co and Winnebago Co GIS

- LEGEND**
- Counties
 - OU1 Sub-areas
 - Cap Placement Limits
 - Sand Placement Limits
 - GIS Registry Parcels
 - Parcels

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.



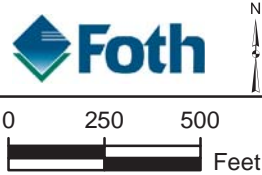
GW PARTNERS		
FIGURE 1		
GIS REGISTRY OU1 PARCEL OVERVIEW OUTAGAMIE AND WINNEBAGO COUNTIES		
Date: MAY 2017	Revision Date:	
Drawn By: DAT	Checked By: TMK1	Project: 12G007.17



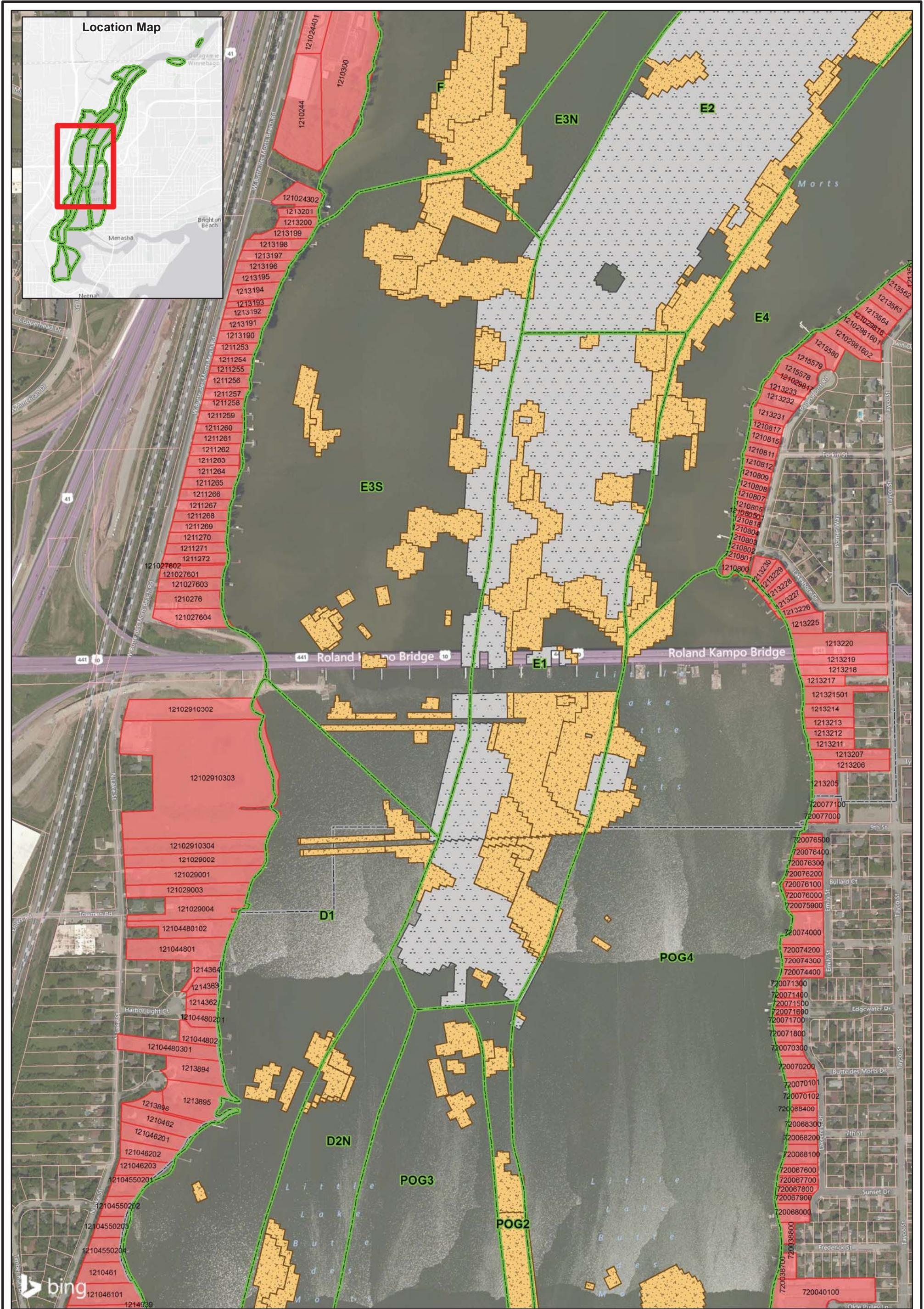
- NOTES:**
 1. Coordinate System: Wisconsin SPS, NAD83
 2. Parcels supplied by Winnebago Co GIS

- LEGEND**
- OU1 Sub-areas
 - Cap Placement Limits
 - Sand Placement Limits
 - Municipal Boundary
 - GIS Registry Parcels
 - Parcels

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.



GW PARTNERS		
FIGURE 2		
GIS REGISTRY FOR OU1 PARCEL AREA 1 WINNEBAGO COUNTY		
Date: MAY 2017	Revision Date:	
Drawn By: DAT	Checked By: TMK1	Project: 12G007.17



NOTES:
 1. Coordinate System: Wisconsin SPS, NAD83
 2. Parcels supplied by Winnebago Co GIS

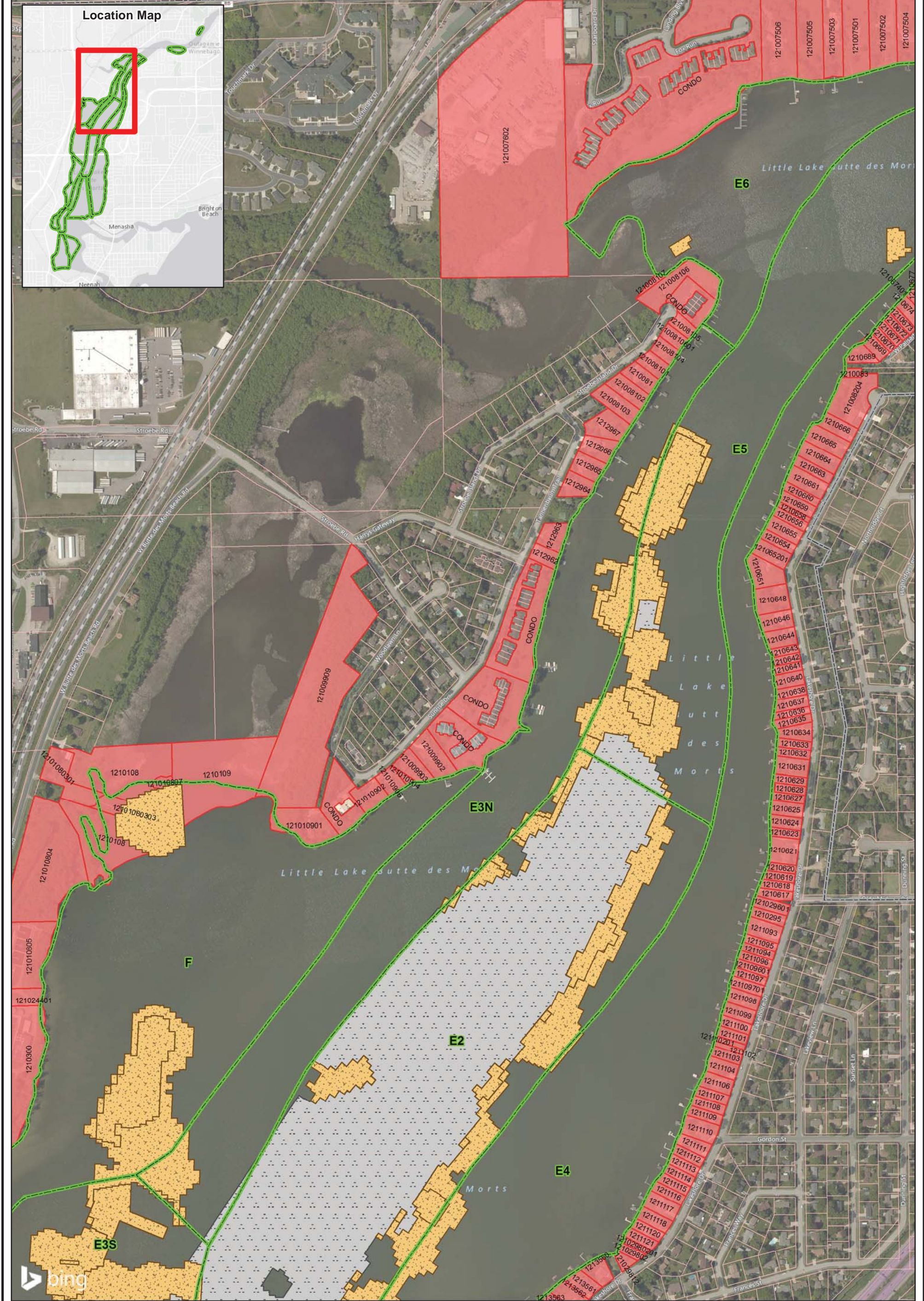
- LEGEND**
- OU1 Sub-areas
 - Cap Placement Limits
 - Sand Placement Limits
 - Municipal Boundary
 - GIS Registry Parcels
 - Parcels

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.

Foth

0 250 500
 Feet

GW PARTNERS		
FIGURE 3		
GIS REGISTRY FOR OU1 PARCEL AREA 2 WINNEBAGO COUNTY		
Date: MAY 2017	Revision Date:	
Drawn By: DAT	Checked By: TMK1	Project: 12G007.17



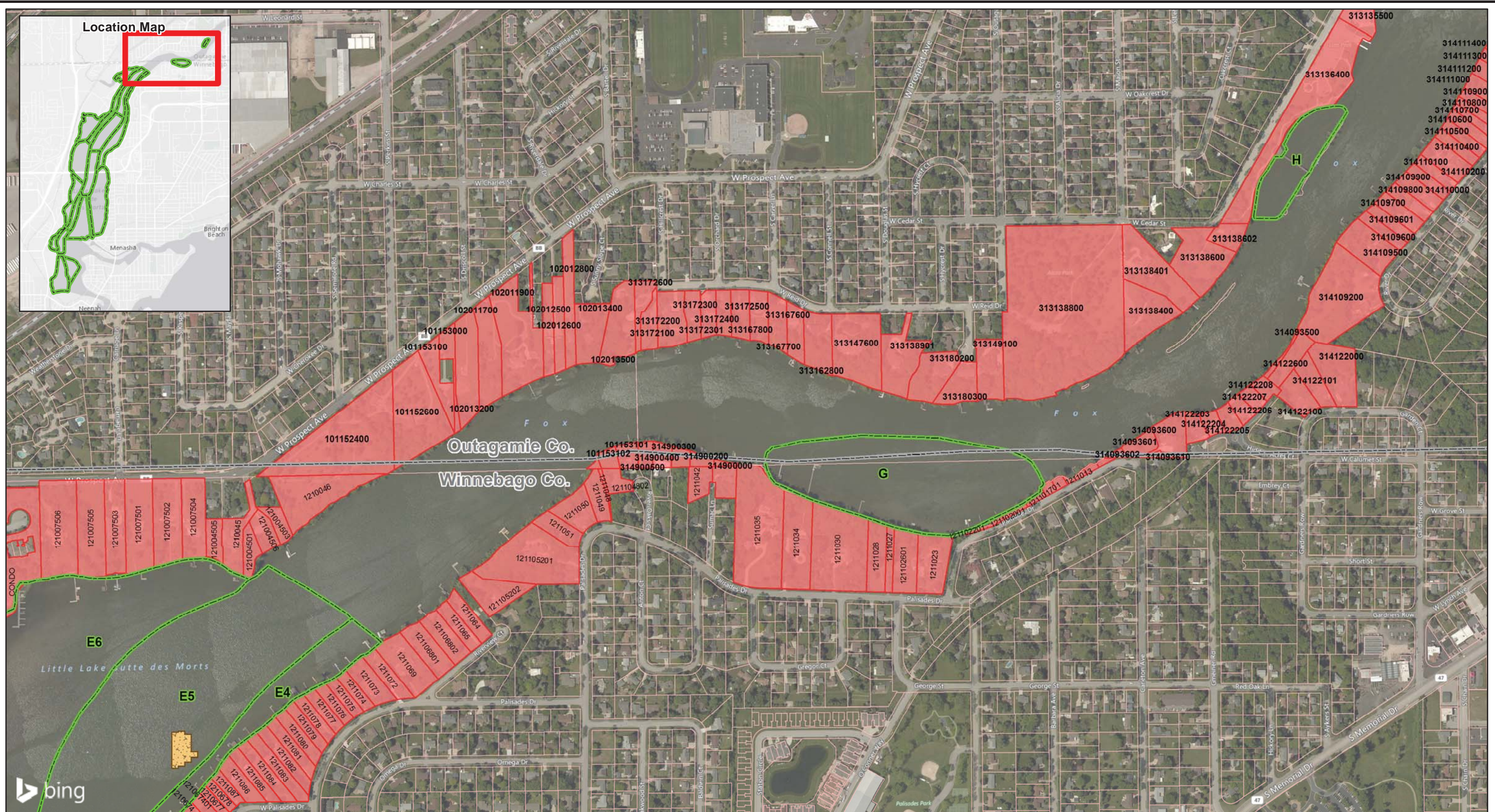
NOTES:
 1. Coordinate System: Wisconsin SPS, NAD83
 2. Parcels supplied by Winnebago Co GIS

LEGEND

- OU1 Sub-areas
- Cap Placement Limits
- Sand Placement Limits
- Municipal Boundary
- GIS Registry Parcels
- Parcels

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.

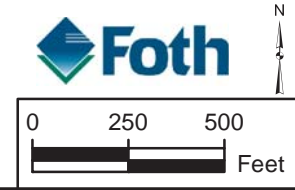
GW PARTNERS		
FIGURE 4		
GIS REGISTRY FOR OU1		
PARCEL AREA 3		
WINNEBAGO COUNTY		
Date: MAY 2017	Revision Date:	
Drawn By: DAT	Checked By: TMK1	Project: 12G007.17



NOTES:
 1. Coordinate System: Wisconsin SPS, NAD83
 2. Parcels supplied by Winnebago Co GIS

- LEGEND**
- Counties
 - OU1 Sub-areas
 - Cap Placement Limits
 - Sand Placement Limits
 - GIS Registry Parcels
 - Parcels

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.



GW PARTNERS		
FIGURE 5		
GIS REGISTRY FOR OU1		
PARCEL AREA 4		
OUTAGAMIE AND WINNEBAGO COUNTIES		
Date: MAY 2017	Revision Date:	
Drawn By: DAT	Checked By: TMK1	Project: 12G007.17


G.4. Signed Statement

Affected Properties Location Description Statement

P.H. Glatfelter Company

Site Main Address:
225 West Wisconsin Avenue
Neenah, WI 54956

I hereby attest to the best of my knowledge that the information depicted in Figures 1 through 5, provided in Attachment B, accurately show the property boundaries and parcel IDs of all properties bordering OU1.



Responsible Party Representative

08/11/2017

Date

Kent K. Matsumoto, Vice President, General Counsel and Corporate Secretary
Printed Name/Title