

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

6 MAY 2014

REPLY TO THE ATTENTION OF:

Mr. Roger Eberhardt Acting Deputy Director, Office of the Great Lakes Michigan Department of Environmental Quality 525 West Allegan P.O. Box 30473 Lansing, Michigan 48909-7773

#### Dear Roger:

Thank you for your February 6, 2014, request to remove the "Loss of Fish and Wildlife Habitat" Beneficial Use Impairment (BUI) from the Saginaw River/Bay Area of Concern (AOC) in Michigan. As you know, we share your desire to restore all of the Great Lakes AOCs and to formally delist them.

Based upon a review of your submittal and the supporting data, the U.S. Environmental Protection Agency hereby approves your BUI removal request for the Saginaw River/Bay AOC. EPA will notify the International Joint Commission of this significant positive environmental change at this AOC.

We congratulate you and your staff, as well as the many federal, state, and local partners who have worked so hard and been instrumental in achieving this important environmental improvement. Removal of this BUI will benefit not only the people who live and work in the Saginaw River/Bay AOC, but all the residents of Michigan and the Great Lakes basin as well. We look forward to the continuation of this important and productive relationship with your agency and the local coordinating committee as we work together to fully restore all of Michigan's AOCs. If you have any further questions, please contact me at (312) 353-4891, or your staff may contact John Perrecone, at (312) 353-1149.

Sincerely,

Chris Korleski, Director

Great Lakes National Program Office

cc: Dan Wyant, Director, MDEQ
Jon W. Allan, MDEQ, Office of Great Lakes
Rick Hobrla, MDEQ, Office of Great Lakes
Bretton Joldersma, MDEQ, Office of Great Lakes
Stephen Locke, IJC
Wendy Carney, EPA, GLNPO
John Perrecone, EPA, GLNPO
Diana Mally, EPA, GLNPO



### STATE OF MICHIGAN

### OFFICE OF THE GREAT LAKES

LANSING



February 6, 2014

Mr. Chris Korleski, Director Great Lakes National Program Office United States Environmental Protection Agency Region 5 77 West Jackson Boulevard (G-17J) Chicago, Illinois 60604-3507

Dear Mr. Korleski:

I am writing to request the United States Environmental Protection Agency (USEPA), Great Lakes National Program Office's (GLNPO) concurrence with the removal of the Loss of Fish and Wildlife Habitat Beneficial Use Impairment (BUI) from the Saginaw River/Bay Area of Concern (AOC). The Michigan Department of Environmental Quality (MDEQ), Office of the Great Lakes (OGL), has assessed the status of this BUI in accordance with the state's *Guidance for Delisting Michigan's Great Lakes Areas of Concern* and recommends that the BUI be removed from the list of impairments in the Saginaw River/Bay AOC.

Enclosed please find documentation to support this recommendation, including the BUI removal recommendation document prepared by OGL staff. The Saginaw River/Bay Public Advisory Council, known as the Partnership for the Saginaw Bay Watershed, submitted a letter supporting this recommendation which is included with this package. The proposed BUI removal was public noticed via a listing in the MDEQ Calendar, and supporting documents were posted on the MDEQ's AOC program web page. The removal recommendation was public noticed from September 11, 2013, through October 14, 2013. Further, the OGL hosted a public meeting on October 8, 2013, to discuss and solicit comments on the potential recommendation to remove this BUI from the Saginaw River/Bay AOC. Information about the public notice period is included in the removal recommendation document.

We value our continuing partnership in the AOC Program and look forward to working with the GLNPO in the removal of additional BUIs in the near future. If you need further information concerning this request, please contact Mr. Bretton Joldersma, Office of the Great Lakes, at 517-284-5048, or you may contact me.

Sincerely,

Roger Eberhardt Acting Deputy Director

517-284-5035

#### **Enclosures**

CC:

Ms. Diana Mally, USEPA

Mr. John Perrecone, USEPA

Mr. Jon Allan, MDEQ

Mr. Richard Hobrla, MDEQ

Mr. Bretton Joldersma, MDEQ

#### **Removal Recommendation** Loss of Fish and Wildlife Habitat Beneficial Use Impairment Saginaw River/Bay Area of Concern

#### Issue

The Michigan Department of Environmental Quality (MDEQ), Office of the Great Lakes, Areas of Concern (AOCs) program requests concurrence with the removal of the Loss of Fish and Wildlife Habitat Beneficial Use Impairment (BUI) for the Saginaw River/Bay AOC. recommendation is made with the support of the Partnership for the Saginaw Bay Watershed (the Partnership), United States Fish and Wildlife Service, Michigan Department of Natural Resources (MDNR) Fisheries, and Ducks Unlimited. This request is made in accordance with the process and criteria set forth in the Guidance for Delisting Michigan's Great Lakes Areas of Concern (Guidance) (MDEQ, 2008).

#### **Background**

The Saginaw River/Bay AOC is located in the east central portion of Michigan's Lower Peninsula. The geographic extent of the AOC is defined by the area extending from the head of the Saginaw River, at the confluence of the Shiawassee and Tittabawassee Rivers upstream of the city of Saginaw, to its mouth, including all of Saginaw Bay out to its interface with Lake Huron, at an imaginary line drawn between Au Sable Point and Point Aux Barques (Figure 1). The Saginaw River and Bay was listed as an AOC primarily due to contaminated sediments, fish consumption advisories, high levels of bacteria, nutrient enrichment (i.e., phosphorus), sedimentation, degraded fisheries, and loss of significant recreational values (MDEQ, 2012).

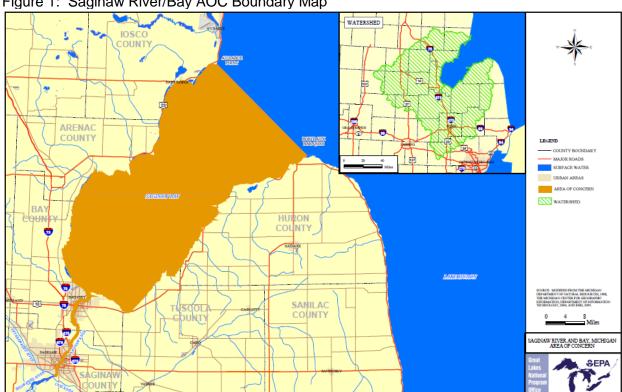


Figure 1: Saginaw River/Bay AOC Boundary Map

Ten BUIs remain in the Saginaw River/Bay AOC: Restrictions on Fish and Wildlife Consumption, Bird or Animal Deformities or Reproductive Problems, Degradation of Benthos, Restrictions on Dredging Activities, Eutrophication or Undesirable Algae, Beach Closings, Degradation of Aesthetics, Degradation of Phytoplankton or Zooplankton Populations, Degradation of Fish and Wildlife Populations, and Loss of Fish and Wildlife Habitat. This removal recommendation only pertains to the Loss of Fish and Wildlife Habitat BUI. Removal of the BUI will not affect or change the fish consumption advisory for the Saginaw River or Bay.

On May 31, 2006, the Partnership adopted the state's restoration criteria outlined in the *Guidance*. For the Degradation of Fish and Wildlife Populations (Populations) and the Loss of Fish and Wildlife Habitat (Habitat) BUIs the state determined that it was not practical to set statewide restoration criteria because of the local nature of the impairments. As such, the *Guidance* outlines a process that local Public Advisory Councils (PACs) can use to set locally-derived restoration targets (Attachment A).

In 2008, the Partnership developed a restoration plan for the AOC's Populations and Habitat BUIs in accordance with the state's guidance. The plan was reviewed and updated in 2010 and 2012 with input from a technical committee, comprised of representatives from the MDEQ, MDNR, Saginaw Bay Land Conservancy, The Conservation Fund, Ducks Unlimited (DU), and facilitated by Public Sector Consultants (PSC). Additional input on the plan was provided by the United States Fish and Wildlife Service.

As detailed in 2012 Saginaw River/Bay Area of Concern Restoration Plan for the Habitat and Populations BUIs, a tiered BUI restoration approach was adopted for the Habitat, Populations, and Bird or Animal Deformities or Reproductive Problems (Deformities/Reproductive) BUIs. Under the tiered approach the Habitat and the Deformities/Reproductive BUIs must be removed before the Populations BUI can be removed. However, the Habitat and Deformities/Reproductive BUIs do not need to be removed in any particular order (PSC, 2012). This approach acknowledges that Populations, Habitat, and Deformities/Reproductive BUIs are closely linked and is consistent with the reasons why the Habitat and Population BUIs were originally listed.

According to previous Remedial Action Plans (RAPs) (MDNR, 1988; MDNR, 1994), the Habitat and Populations BUIs were listed as impaired for the following reasons:

- 1. The decline/impairment of fish and wildlife populations particularly fish-eating birds, from high levels of toxic contaminants in the water and sediments within the AOC.
- 2. The decline in populations of key recreational and commercial fisheries due to low dissolved oxygen caused by nutrient enrichment within Saginaw River and Bay.
- 3. The loss/degradation of fish spawning areas in the bay and tributaries as a result of sedimentation and dams.
- 4. The loss/degradation of coastal wetlands from land use change (MDEQ, 2012).

Under the tiered BUI restoration approach, fish and wildlife impairments related to toxic contaminants are being addressed under the Deformities/Reproductive BUI. A recent assessment of the Deformities/Reproductive BUI concluded that this BUI was still impaired. In addition it was recommended that monitoring of productivity, contaminant levels, and contaminant concentrations continue (Bush and Bohr, 2012). Furthermore, any change to status of this BUI will be conducted in consultation with a technical committee and the Trustees for the Tittabawassee Natural Resources Damage Assessment.

As identified above, populations of key recreational and commercial fisheries had declined due to low dissolved oxygen levels. According to the 1995 RAP, dissolved oxygen levels throughout Saginaw Bay were generally near saturation levels (MDNR, 1994). Additionally, the 2002 RAP update states that "dissolved oxygen measurements in the Saginaw River indicated that levels are now consistently higher than the minimum state water quality standard for the protection of warm-water fish of 5.0 mg/l" (PSC, 2002). In 2009, the MDEQ monitored several locations throughout the Saginaw Bay Watershed (including the Saginaw, Cass, and Tittabawassee Rivers) and determined that dissolved oxygen levels were in attainment with state's warm-water dissolved oxygen standard of 5.0 mg/l (Sunday, 2010). Further, dissolved oxygen levels in Saginaw Bay are sufficient to provide adequate oxygen for aquatic organisms (MDEQ, 2005). Therefore, low dissolved oxygen can no longer be considered a problem contributing to the Populations BUI.

Impairments related to the loss/degradation of fish spawning areas are currently being addressed under the Populations BUI. The restoration of the Populations BUI is linked to the construction of fish passage structures (i.e., rock ramps) at the Frankenmuth and Chesaning Dams. These rock ramps, once demonstrated to successfully allow for fish passage, will provide access to historical spawning areas and will help to support self-sustaining fish populations (PSC, 2012).

Lastly, the impairments related to the loss/degradation of coastal wetlands are linked to the Habitat BUI and are the focus of this removal recommendation. The specific restoration criteria identified in the 2012 Saginaw River/Bay Restoration Plan for the Habitat BUI are detailed in the Removal Criteria section of this document.

#### **Removal Criteria**

In accordance with the MDEQ's *Guidance* and as stated in the 2012 *Saginaw River/Bay Area of Concern Restoration Plan for the Habitat and Populations BUIs*, the Loss of Fish and Wildlife Habitat BUI will be considered restored when:

- at least 60 percent of the coastal marsh areas (below the 585-foot contour) and adequate upland buffers representing essential fish and wildlife habitat are preserved through public ownership, covered under conservation easements, or otherwise protected under agreements with landowners; and
- the most vulnerable portions of the remaining 40 percent of the essential coastal marsh areas have been clearly identified so that governmental agencies, local conservation/ environmental organizations, and concerned citizens can monitor their status, enhance enforcement of existing laws, and conduct public educational programs to better protect these areas.

It should be noted that this restoration criteria has been a long term target for the Saginaw River/Bay AOC. In 1998, the Michigan Natural Features Inventory conducted a watershed-level biodiversity assessment of the Saginaw Bay Watershed and concluded that the highest conservation priority was to conserve "lakeplain prairies and Great Lakes marshes lakeward and riverward from the 585 contour" (Nelson, 2000). This conservation priority is reflected in the AOCs criteria and has remained unchanged since it was cited in the 2000 Measures of Success: Addressing Environmental Impairments in the Saginaw River and Saginaw Bay (PSC, 2000). The 2000 Measures of Success document also identified the importance of protecting

upland buffers. An upland buffer is a vegetated area of land adjacent to a water resource (e.g., wetland) that helps to protect the water resource from anthropogenic land uses and nonpoint source pollution. Upland buffers provide habitat and serve a variety of functions including shading and water temperature control, and they help to protect water quality by filtering out nutrients, sediments, and other contaminants carried in stormwater runoff.

#### **Analysis**

The status of Saginaw River/Bay AOC's Loss of Fish and Wildlife Habitat BUI has been assessed several times. The most recent assessment was completed by Ducks Unlimited (DU) in 2012. Using the most recent information available, DU conducted a geospatial analysis to evaluate the progress made towards meeting the restoration targets. Detailed information about the analysis and methodology is available in the DU's report, *Refining and Updating the Wetland Protection Status in the Saginaw Bay Coastal Plain* (DU, 2012). A brief summary of DU's methods and analysis is below:

#### <u>Updated 585-Foot Contour</u>

Using a Geographic Information System (GIS), DU re-created the AOC's 585-foot contour using more accurate Digital Elevation Models (DEM) based on Light Detection and Range data and U.S. Geological Survey's 3-meter and 10-meter National Hydrography Dataset. DU then combined the newly created 585-foot contour line with parcel data provided by the counties to create a more accurate GIS shape file of the area below the 585-foot contour. The parcel data was used to create the lakeward boundary of the area below the 585-foot contour.

#### <u>Updated Conservation and Recreation Land Data</u>

As a part of the 2012 analysis, DU updated the Conservation and Recreation Lands (CARL) GIS data layer. With the updated CARL data, DU created a GIS shape file of the current conservation and recreation land located in the area below the AOC's 585-foot contour.

#### Analysis of Wetland Conversion

DU has been in the process of updating the National Wetlands Inventory (NWI) for Michigan including an analysis of wetland conversion from 1980, 1998, and 2005. At the time of the analysis, DU had completed the update for the area encompassing the AOC. The updated NWI was used with GIS to identify the wetlands and acreage located below the 585-foot contour. Further, the wetlands were categorized and grouped into six wetland types based on the Cowardin classification code: forested, emergent, scrub-shrub, open water, aquatic bed, and mixed.

#### Analysis of Currently Protected Wetlands

Using the updated GIS layers mentioned above (585-foot contour, CARL, and NWI), DU overlaid the layers in GIS and ran a query to identify the currently protected acres of wetlands. The results of this analysis show that 63.6 percent (19,100.3 acres) of the wetlands located below the AOC's 585-foot contour are now protected (Table 1 and Figure 2).

Table 1: 2012 Analysis of Wetland Protected

PROTECTION TYPE *		WETL	AND TYI	PE (acres	) **		UPLAND BUFFER (acres)	TOTAL (acres)
	Forested	Emergent	Shrub	Open Water	Aquatic Bed	Mixed		
Federal	1682.7	1888.3	60.5	93.6	0.0	444.2	4236.0	8405.3
State	3782.6	5606.8	605.3	456.9	658.6	2987.1	9332.7	23430.0
County	0.0	0.0	0.0	0.0	0.0	7.7	241.3	249.0
Local Government	4.3	69.8	25.5	16.4	0.0	126.4	424.9	667.3
Non-Governmental Organization	54.1	226.5	9.5	16.4	0.0	12.3	692.3	1011.0
Private	205.8	34.5	0.3	0.4	0.0	23.9	761.0	1025.9
Total Protected Wetlands	5729.6	7825.8	701.1	583.6	658.6	3601.5	·	
Wetlands Currently Not Protected	3695.1	2603.1	1204.8	1015.5	16.1	2420.6		
Total Wetlands	9424.7	10429.0	1905.9	1599.1	674.6	6022.1		
Percentage Protected	60.8%	75.0%	36.8%	36.5%	97.6%	59.8%		
Total Protected Upland Buffer							15688.1	
Total Wetlands Protected	19100.3	-						
Total Wetlands	30055.4							
Total Wetlands Percent Protected	63.6%							

Source: Modified from DU, 2012

#### **Currently Protected Upland**

As previously stated, DU used the CARL database to create a GIS shape file of the currently protected land located below the AOC's 585-foot contour. Using the NWI GIS layer, the total acreage of protected land below the 585-foot contour was then identified as either upland or wetland (wetlands were further classified by wetland type: forested, emergent, scrub-shrub, open water, aquatic bed, and mixed). Based on DU's analysis, 15,688.1 acres of upland are currently protected below the 585-foot contour (Table 1).

#### Analysis of Priority Unprotected Wetlands

The current acreage of unprotected wetlands was calculated by subtracting the acres of protected wetlands from the total acres of wetlands located below the 585-foot contour. As stated in the DU report, "in order to give a protection priority status to each wetland in the study area, the NWI layer was spatially joined with the Saginaw Bay Coastal Wetland Protection Priority Analysis layer (Schools, 2009). The resulting layer was intersected with the CARL layer to give the amount of wetlands protected in each of the status categories (moderate, high, highest priority) and to identify priority wetlands that are not currently protected" (DU, 2012). A map of the priority unprotected wetlands is included below, and a list of priority unprotected wetlands is attached (Figure 3 and Attachment B).

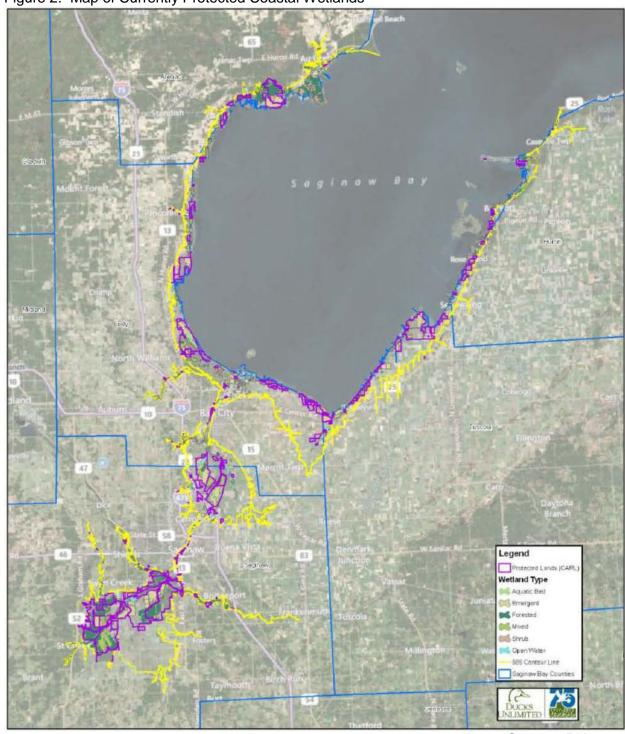


Figure 2: Map of Currently Protected Coastal Wetlands

Source: DU, 2012

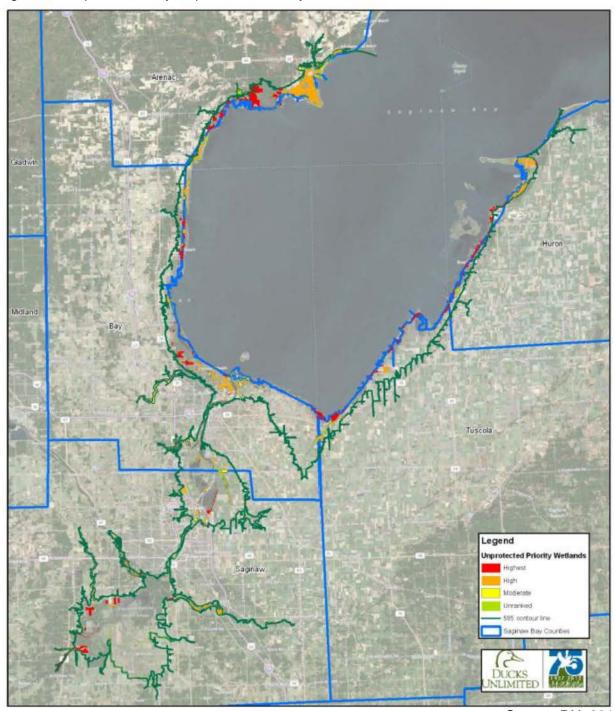


Figure 3: Map of Currently Unprotected Priority Coastal Wetlands

Source: DU, 2012

In addition to the DU's report, the 2012 Saginaw River/Bay Area of Concern Restoration Plan for Habitat and Populations BUIs includes an assessment of the progress made towards meeting the restoration targets for the Loss of Fish and Wildlife Habitat BUI. The assessment was based on DU's 2012 geospatial analysis and in consultation with a technical committee comprised of representatives from the United States Fish and Wildlife Service, MDEQ, MDNR, DU, The Conservation Fund, the Saginaw Basin Land Conservancy, and the Partnership. The plan indicates that "the most recent estimates show that 60 percent of wetlands below the 585-foot contour have been protected through public ownership and permanent conservation easements, and the remaining unprotected wetlands have been prioritized and identified by parcel for continued protection, pursuant to the delisting criteria" (PSC, 2012). On October 17, 2012, the technical committee met and supported the finding that the habitat restoration targets have been achieved.

The Partnership is continuing to support and work with many local organizations (e.g., Ducks Unlimited, Saginaw Basin Land Conservancy, etc.) on their efforts to conserve the remaining unprotected wetland. The methodology used to prioritize the wetlands, as detailed in the Methodology Report for Prioritizing Saginaw Bay Wetlands (Schools, 2009), along with electronic copies of the GIS models used were distributed to many of the coastal communities, counties, and other interested stakeholders so that it could be used as a tool to help stakeholders protect coastal wetlands within the AOC.

This removal recommendation was discussed during the Partnership's December 6, 2012 and July 22, 2013 meetings. During the July 22, 2013 meeting, the Partnership Board unanimously voted to support the removal of Loss of Fish and Wildlife Habitat BUI from the Saginaw River/Bay AOC. A copy of the Partnership's letter of support for removing the Loss of Fish and Wildlife Habitat BUI is attached (Attachment C).

Two public meetings sponsored by the Saginaw Bay Watershed Partnership were held on May 29, 2013 to discuss the finding that the habitat restoration criteria had been met. A summary of the public meetings is included in Attachment D. This proposed action was public noticed via listing in the MDEQ Calendar (Attachment E). Supporting documents were posted on the MDEQ's AOC program web page for public review and comment from September 11, 2013 through October 14, 2013. A public meeting sponsored by the MDEQ was held on October 8, 2013, at the Bay County Public Library's Wirt Branch, to discuss this removal recommendation with the Saginaw River/Bay AOC community (a summary of the public meeting is included as Attachment F).

During the public notice period some concerns were raised regarding the potential removal of the Habitat BUI. These concerns ranged from issues that were either outside the scope of the AOC program (e.g., property taxation, wetland and floodplain regulations, etc.) or related to other beneficial uses that, at this time, are still impaired and not currently being considered for removal (e.g., Degradation of Fish and Wildlife Populations, Degradation of Benthos, Bird or Animal Deformities or Reproductive Problems BUIs.). A couple of commenters suggested that the restoration criteria for the BUI should be changed. Because the restoration criteria (1) has been in place for over ten years; (2) was negotiated amongst a variety of federal and state agencies, non-governmental organization and local representatives; and (3) formally accepted by the MDEQ, it was determined that it was not appropriate to change the criteria. The OGL did not receive any comments objecting to the finding that the established restoration criteria for the Habitat BUI had been met.

#### **Supporting Lines of Evidence**

As specified in the 2008 and 2012 restoration plans, species-specific restoration targets for the Degradation of Fish and Wildlife Populations BUI were not appropriate due to complex ecosystem changes caused by invasive species and food web alterations. Species-specific restoration targets were determined not to be appropriate for the following reasons:

<u>Walleye</u>: "The measurable recovery target for walleye was set to achieve a population density such that walleye grow no faster than 110 percent of the state average mean length at age three. The walleye population met this goal for the first time in 2006, and again in 2007, but it is not known whether this goal will be sustainable in the future, as the food web continues to change. For this reason, the technical committee in 2008 and 2012 concluded that the walleye target can no longer be used as a relevant target for monitoring restoration of these BUIs" (PSC, 2012).

Yellow Perch: The initial recovery target set for yellow perch called for a sustained annual harvest of 750,000 pounds per year with increasing abundance of larger, faster-growing individuals. The technical committee determined that this was a problematic target because it focused on annual harvests instead of on the health of the yellow perch population. Further, "while yellow perch exhibit high rates of natural reproduction, survival to yearling size is poor as a result of the combined effects of food web alteration and high mortality, due to predation. Growth rates of perch surviving past the age of one are very good, but numbers of larger perch are near historic lows. Based on this information, it is likely that perch are impacted by predator-prey imbalances, rather than a lack of available spawning habitat" (PSC, 2012). In addition, the technical committee in 2008 and 2012 determined that the challenges facing yellow perch population in the Saginaw River/Bay AOC are no different than the challenges facing population in Lake Huron (i.e., disruptions in food web dynamics and increased competition from invasive species) and therefore concluded that a yellow perch target was no longer an appropriate restoration target (PSC, 2012).

<u>Lake Sturgeon</u>: The restoration target for lake sturgeon called for documented evidence of natural reproduction in the Saginaw Bay. However, the technical committee found that "...the challenges to the sturgeon recovery in the Saginaw River and Bay are indistinguishable from those impacting sturgeon populations beyond the AOC boundary, including lack of access to historic spawning locations and a limited population of sexually mature sturgeon. For this reason, the 2008 technical committee concluded that sturgeon target can no longer be used as a relevant target for monitoring restoration of these BUIs, which was reaffirmed in 2012" (PSC, 2012).

However, the Saginaw Bay walleye fishery has rebounded and is once again a world class fishery. In the early 2000s the MDNR, Fisheries Division set a walleye restoration target for the bay to restore walleye levels to 110 percent of the statewide average growth rate for three of five consecutive years by natural reproduction. Available data indicates that this criterion was met in 2009 for the first time since the 1950s. Further, natural reproduction has been so strong that that the MDR has not stocked walleye in Saginaw Bay since 2005 (Fielder and Thomas, in press).

While not a localized AOC issue, it is beneficial to note that resource managers are actively pursuing the management and treatment of phragmites. Phragmites is an invasive wetland plant that has spread across the Great Lakes Basin. Within the Saginaw Bay Watershed, a Cooperative Weed Management Area is being organized to help inventory, treat, and control phragmites and other invasive species. This is a collaborative effort with many partners including the United States Fish and Wildlife Service, Michigan Department of Natural Resources, and many local organizations and conservation districts. Phragmites control is likely to be a long-term effort within Saginaw Bay and throughout the Great Lakes.

#### Recommendation

Based upon review of the data and input from the Technical Committee, the MDEQ AOC program staff recommends removal of the Loss of Fish and Wildlife Habitat BUI, in the Saginaw River/Bay AOC. This removal recommendation is made with consultation from the United States Fish and Wildlife Service, MDNR Fisheries, and Ducks Unlimited.

Prepared by: Bretton Joldersma, Saginaw River/Bay AOC Coordinator

Great Lakes Management Unit Office of the Great Lakes

Michigan Department of Environmental Quality

November 5, 2013

#### **Attachments**

Attachment A: Loss of Fish and Wildlife Habitat and Degradation of Fish and Wildlife Populations criteria-setting process; pages 47-51 of the *Guidance for Delisting Michigan's Great Lakes Areas of Concern.* 

Attachment B: List of Highest Priority Unprotected Wetlands (DU, 2012).

Attachment C: The Partnership's letter of support for removing the Loss of Fish and Wildlife Habitat BUI, July 23, 2012.

Attachment D: Information from the Partnership's May 29, 2013 Public Meeting (e.g., Meeting Agenda, Sign-in Sheet, and Meeting Minutes).

Attachment E: MDEQ's September 23, and October 7, 2013 Calendars.

Attachment F: Summary of public comments from the October 8, 2013 MDEQ public meeting.

#### References

- Bush, D., Bohr, J. 2012. Assessment of the Bird or Animal Deformities or Reproductive Problems Beneficial Use Impairment in Michigan's Great Lakes Areas of Concern. Lansing, Michigan. MI/DEQ/WRD-12/032. Lansing, Michigan.
- Ducks Unlimited. 2012. Refining and Updating the Wetland Protection Status in the Saginaw Bay Coastal Plain. Final Report Revised February 2013. Ann Arbor, Michigan.
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- Michigan Department of Environmental Quality. 2005. Water Quality Monitoring of Saginaw and Grand Traverse Bays. 2005 Annual Data Report MI/DEQ/WB-07/054.
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- Public Sector Consultants. 2000. Measures of Success: Addressing Environmental Impairments in the Saginaw River and Saginaw Bay. Lansing, Michigan.
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- Sunday, Erik. 2010. Michigan Department of Environmental Quality. Personal Communication February 8, 2010. Lansing, Michigan.

#### **Attachment A**

2008 Guidance for Delisting Michigan's Great Lakes Areas of Concern: Loss of Fish & Wildlife Habitat and Degradation of Fish & Wildlife Populations Criteria-setting Process

## Loss of Fish and Wildlife Habitat Degradation of Fish and Wildlife Populations

These 2 BUIs are being considered together in recognition of the integral relationship between them. For the purpose of assessing restoration, both of these BUIs will use the same criteria-setting process.

#### Significance in Michigan's Areas of Concern

Twelve AOCs in Michigan have identified Loss of Fish and Wildlife Habitat as a BUI in their RAPs (all except Deer Lake and Torch Lake). Nine AOCs in Michigan have identified Degradation of Fish and Wildlife Populations as a BUI including: Kalamazoo River, Muskegon Lake, White Lake, Menominee River, St. Marys River, Saginaw River/Bay, Clinton River, Rouge River, and River Raisin. Little quantitative information was available in the 1980s regarding habitat loss and population degradation, when impairments were first determined. Therefore, there is wide variability in these impairments among the AOCs due to both real variability in habitat and populations as well as variability in initial assessments.

#### Michigan Restoration Criteria and Assessment

Restoration of this BUI requires that a local aquatic habitat or population restoration plan be developed and implemented. The plan must be part of the RAP for the AOC, and contain at least the following components:

- A. A short narrative on historical fish and wildlife habitat or population issues in the AOC, including how habitat or populations have been impaired by water quality.
- B. Description of the impairment(s) and location for each aquatic habitat or population site, or for multiple sites where determined appropriate at the local level to address all habitat or population issues identified in the RAP and RAP updates.
- C. A locally derived restoration target for each impacted habitat or population site. Sources of information for targets may include data from social science surveys, if appropriate. Habitat restoration targets may be based on restoration of fish and wildlife populations, if appropriate.
- D. A list of all other ongoing habitat or population planning processes in the AOC, and a description of their relationship to the restoration projects proposed in the plan.

- E. A scope of work for restoring each impacted aquatic habitat or population site. The scope of work should describe specific habitat or population restoration action(s) to be completed, including:
  - 1. Timetable
  - 2. Funding
  - 3. Responsible entities
  - 4. Indicators and monitoring
  - 5. Evaluation process based on indicators
  - 6. Public involvement
- F. A component for reporting on habitat or population restoration implementation action(s) to the MDEQ.

Removal of this BUI will be based on achievement of full implementation of actions in the steps above, including monitoring conducted according to site plans and showing consistent improvement in quantity or quality of habitat or populations addressed in the criteria. Habitat values and populations need not be fully restored prior to delisting, as some may take many years to recover after actions are complete. Actions already implemented in AOCs may be reported and evaluated as long as the reports contain all the elements above.

#### Rationale

#### Practical Application in Michigan

While most Michigan AOCs have habitat impairments and/or populations degradation, none were designated as impaired primarily as a result of these. The AOCs vary widely in their levels of habitat or population degradation, historical habitat or population types, and current needs for habitat or population restoration. The extent of habitat or population restoration necessary in an AOC will be determined at the local level and documented in the RAP.

The habitat or population restoration plan will determine the type and extent of the restoration necessary to address habitat loss or population degradation issues identified in the RAPs. Individual, AOC-specific restoration plans and criteria will be developed and implemented through a federal/state/local partnership.

Sources of water quality contamination must be controlled before habitat or population restoration is conducted. In some circumstances, habitat degradation is actually contributing to water quality problems, rather than vice versa. In those instances, the workplan should discuss this issue and the remedial actions should be targeted accordingly.

1991 IJC General Delisting Guideline: Loss of Fish and Wildlife Habitat

When the amount and quality of physical, chemical, and biological habitat required to meet fish and wildlife management goals have been achieved and protected.

IJC Delisting Guideline: Degradation of Fish and Wildlife Populations:

When environmental conditions support healthy, self-sustaining communities of desired fish and wildlife at predetermined levels of abundance that would be expected from the amount and quality of suitable physical, chemical and biological habitat present. An effort must be made to ensure that fish and wildlife objectives for AOCs are consistent with Great Lakes ecosystem objectives and Great Lakes Fishery Commission fish community goals. Further, in the absence of community structure data, this use will be considered restored when fish and wildlife bioassays confirm no significant toxicity from water column or sediment contaminants.

The IJC general delisting guideline for the BUI is presented here for reference. The Practical Application in Michigan subsection above describes application of specific criteria for restoration based on existing Michigan programs and authorities.

#### State of Michigan Program and Authorities for Evaluating Restoration

Habitat or population restoration projects to address these use impairments will be implemented by a variety of programs at the federal, state, and local level, as determined in the restoration planning process. For the development of local habitat or population restoration plans and criteria, the MDEQ, in consultation with MDNR Fisheries and Wildlife Divisions, commits to partnering with local AOC groups to determine what those actions should be, and make available to the PACs the existing monitoring and reporting elements in state programs as applicable.

Michigan assesses water bodies throughout the state on a 5-year basin rotation plan according to the MDEQ's "Strategic Environmental Quality Monitoring Program for Michigan's Surface Waters" (MDEQ, 1997) and "Michigan Water Quality Strategy Update" (MDEQ, 2005). Each year, a set of targeted watersheds are sampled at selected sites for conventional and toxic pollutants, and biological and physical habitat/morphology indicators. The set of watersheds sampled rotates each year, with each major watershed in the state revisited every 5 years (see Appendix 1 for maps of the basin rotations). One element of the strategy is expanded and improved monitoring of biological integrity and physical habitat.

This element includes all monitoring conducted for fish and benthic invertebrate community structure, nuisance aquatic plants, algae, and slimes, and assessment of physical habitat. Because biological communities integrate the cumulative effects of multiple environmental stresses, this element is an

important tool for evaluating water quality. The MDEQ's goal in conducting the watershed surveys is to assess 80% of the stream and river miles in Michigan over a 5-year period.

The specific objectives of biological integrity and physical habitat monitoring are to:

- 1. Determine whether waters of the state are attaining standards for aquatic life.
- 2. Assess the biological integrity of the waters of the state.
- 3. Determine the extent to which sedimentation in surface waters is impacting indigenous aquatic life.
- 4. Determine whether the biological integrity of surface waters is changing with time.
- 5. Assess the effectiveness of best management practices and other restoration efforts in protecting and/or restoring biological integrity and physical habitat.
- 6. Evaluate the overall effectiveness of MDEQ programs in protecting the biological integrity of surface waters.
- 7. Identify waters that are high quality, as well as those that are not meeting standards.
- 8. Identify the waters of the state that are impacted by nuisance aquatic plants, algae, and bacterial slimes.

The biological integrity and physical habitat element consists of several components that, in combination, provide data necessary to achieve the following objectives:

- Rapid biological assessment of wadeable streams;
- Rapid assessment procedure for nonwadeable rivers; and
- Trend monitoring procedure for biological communities.

Rapid, qualitative biological assessments of wadeable streams and rivers are conducted using the SWAS Procedure 51, which compares fish and benthic invertebrate communities at a site to the communities that are expected at an unimpacted, or reference, site. This is a key tool used by the MDEQ to determine whether waterbodies are attaining Michigan WQS. However, this procedure cannot be used on nonwadeable rivers. The MDEQ has been partnering with Michigan State University to develop and validate a procedure for assessing aquatic communities in nonwadeable rivers which the State plans to begin implementing in 2006.

The State will support efforts in all AOCs with this BUI to complete the items the checklist above. Support may be both direct, with partnership commitments from the MDEQ and MDNR to specific elements as appropriate, as well as indirect through grants to local AOC partners. Depending on available resources, support for local development of habitat or population restoration plans and criteria may be spread out among AOCs over multiple years.

Some local AOC communities also have programs for monitoring water quality and related parameters which may be applicable to this BUI. If an AOC chooses to use local monitoring data for the assessment of BUI restoration, the data can be submitted to the MDEQ for review. If the MDEQ determines that the data appropriately address the restoration criteria and meet quality assurance and control requirements, they may be used to demonstrate restoration success.

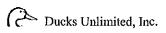
# Attachment B List of Highest Priority Unprotected Wetlands

## APPENDIX B: Landowners of Unprotected Wetlands (over 5 acres in size)

Description		(OTOLO MOLOS IN SIZO)	Acreage of	Acreage of	
	ParceIID	Landowner	-	Unprotected	County
	506791461	Goins William P & Dolores Trust	26.0	9.0	Arenac
506796144         Orier Jan A & Mark G & Alan         25.2         9.8         Arenac           506796158         Hewitt Leland J & Cecelia         27.6         10.7         Arenac           506797471         Beardsaw Dariel Etal         60.4         28.9         Arenac           506797471         Beardsley Richard K Sr. & Marcella         71.0         10.0         Arenac           50679987         Wright Donald N & Margarel J         30.3         9.0         Arenac           50679987         Wright Donald N & Margarel J         30.3         9.0         Arenac           506800001         Davis Robert F & Madaline         11.5         6.0         Arenac           506800002         Oleen Harold D & Beverly J         11.5         6.0         Arenac           506800003         Saliva Lawrence & Peanela         11.5         6.0         Arenac           508800003         Salwa Lawrence & Peanela         11.5         6.0         Arenac           508800003         Ravord K smeth C & Gail M         11.5         6.0         Arenac           508800007         Tyler Leonard & Diana E Trust         30.3         9.0         Arenac           508801031         Bay Shali Norman         86.6         9.7         Arenac	506791786		20.7	5.9	Arenac
506796156         Hewitt Leland J & Cecelia         27.6         10.7         Arenae           506796189         Barshaw Dariel Etal         60.4         28.9         Arenae           5067997471         Beardsley Richard K Sr & Marcella         71.0         10.0         Arenae           5067998837         Wright Donald N & Margaret J         30.3         9.0         Arenae           506800001         Davis Robert F & Madaline         11.5         6.0         Arenae           506800002         Olean Harold D & Beverly J         11.5         6.0         Arenae           506800003         Smith Charles E         11.5         6.0         Arenae           506800003         Smith Charles E         11.5         6.0         Arenae           506800003         Revord Kenneth C & G all M         11.5         6.0         Arenae           506800003         Revord Kenneth C & Charlene         11.5         6.0         Arenae           506800003         Burkhath Norman         30.3         9.0         Arenae           506801430         Marrison Rickyl & Sussen M 655 S Main St         49.9         13.3         Arenae           506801437         Grabowski Jean B & Linda J         49.9         13.3         Arenae	506794527	Saginaw Chippewa Indian Tribe Of Michigan	34.4	10.5	Arenac
Soff)96187	506796145	Grier Jan A & Mark G & Alan	25.2	9.8	Arenac
506797471         Beardaley Richard K Sr & Marcella         71.0         10.0         Arenae           506799887         Wright Donald N & Margaret J         30.3         9.0         Arenae           506800001         Davie Robert F & Madaline         11.5         6.0         Arenae           506800002         Otsen Harold D & Beverly J         11.5         6.0         Arenae           506800003         Smith Charles E         11.5         6.0         Arenae           506800004         Salva Lawrence & Pamela         11.5         6.0         Arenae           506800005         Revord Kerneth C & Gail M         11.5         6.0         Arenae           506800007         Revord Kerneth C & Gail M         11.5         6.0         Arenae           506800007         Tyler Leonard & Charlene         11.5         6.0         Arenae           50680007         Tyler Leonard & Diana E Trust         30.3         9.0         Arenae           506800143         Merison Rickyl & Susan M 655 S Main St         49.9         13.3         Arenae           50680143         Stanley Dennis & Patricia & Michael & Holland Da         49.9         13.3         Arenae           50680143         Stanley Dennis & Patricia & Michael & Holland Da         49.9         <	506796156	Hewitt Leland J & Cecelia	27.6	10.7	Arenac
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506799999         Targosz Felix & Victoria L         11.5         6.0         Arenae           506800001         Davis Robert F & Madaline         11.5         6.0         Arenae           506800002         Olsen Harold D & Beverly J         11.5         6.0         Arenae           506800003         Smith Charles E         11.5         6.0         Arenae           506800004         Salwa Lewrence & Pamela         11.5         6.0         Arenae           506800005         Revord Kerneth C & Gail M         11.5         6.0         Arenae           506800007         Tyler Leonard & Diana E Trust         30.3         9.0         Arenae           506800007         Tyler Leonard & Diana E Trust         30.3         9.0         Arenae           5068001436         Mcrison Rickyl & Susan M 655 S Main St         49.9         13.3         Arenae           506801438         Starley Denris & Patricia & Michael & Holland Da         49.9         13.3         Arenae           506801439         Criffore Charles A & Bourie A         49.9         13.3         Arenae           506801441         Inland Marine Inc Horton Wm         49.9         13.3         Arenae           506801452         Inland Marine Corp         49.9         13.3 <td< td=""><td>506797471</td><td>Beardsley Richard K Sr &amp; Marcella</td><td>71.0</td><td>10.0</td><td>Arenac</td></td<>	506797471	Beardsley Richard K Sr & Marcella	71.0	10.0	Arenac
506800001	506799887	Wright Donald N & Margaret J	30.3	9.0	Arenac
	506799999	Targosz Felix & Victoria L	11.5	6.0	Arenac
506800003         Smith Charles E         11.5         6.0         Arenae           506800004         Salwa Lawrence & Pamela         11.5         6.0         Arenae           506800005         Revord Kerneth C & Gail M         11.5         6.0         Arenae           506800006         Marentette Robert & Charlene         11.5         6.0         Arenae           506800007         Tyler Leonard & Diana E Trust         30.3         9.0         Arenae           5068001436         Morrison Ricky L & Susan M 655 S Main St         49.9         13.3         Arenae           506801437         Grabowski Jean B & Linda J         49.9         13.3         Arenae           506801439         Griffore Charles A & Bonrie A         49.9         13.3         Arenae           506801449         Stanley Holland & Dernis & Patricia & Michael         49.9         13.3         Arenae           506801440         Stanley Holland & Dernis & Patricia & Michael         49.9         13.3         Arenae           506801441         Inland Marine Inc Horton Wm         49.9         13.3         Arenae           506801442         Inland Marine Inc Horton Wm         49.9         13.3         Arenae           506801442         Inland Marine Inc Horton Wm         49.9	506800001	Davis Robert F & Madaline	11.5	6.0	Arenac
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506801441         Inland Marine Inc Horton Wm         49.9         13.3         Arenac           506801442         Inland Marine Cop         49.9         13.3         Arenac           506801443         Rousseau II Apartments Suite 100         49.9         13.3         Arenac           506801513         Leesch Walter Arthur Iii & Cheryl C Trust         38.2         5.8         Arenac           506801514         Borushko William & Mary         38.2         5.8         Arenac           506801515         Krebsbach Hugo & Janice         38.2         5.8         Arenac           506801516         Mielock Gary & Calhleen         38.2         5.8         Arenac           506801529         Ex Victor         33.7         18.3         Arenac           506801530         Ex Duane & Marilyn         33.7         18.3         Arenac           506801531         Peterson Judith K & Robinson Kimberly         33.7         18.3         Arenac           506801532         Peterson Duna C Trust         17.5         7.8         Arenac           506801761         Csicsia Darryl R         127.1         13.6         Arenac           506802444         Pierson Donna C Trust         17.5         7.8         Arenac           5068					
506801442         Inland Marine Corp         49.9         13.3         Arenae           506801443         Rousseau Ii Apartments Suite 100         49.9         13.3         Arenae           506801513         Leesch Walter Arthur Iii & Cheryl C Trust         38.2         5.8         Arenae           506801514         Borushko William & Mery         38.2         5.8         Arenae           506801515         Krebsbach Hugo & Jarice         38.2         5.8         Arenae           506801516         Mielock Gary & Cathleen         38.2         5.8         Arenae           506801516         Mielock Gary & Cathleen         38.2         5.8         Arenae           506801529         Ex Victor         53.7         18.3         Arenae           506801531         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenae           506801532         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenae           506801532         Peterson Donna C Trust         17.5         7.8         Arenae           50680164         C sicsia D arryl R         127.1         13.6         Arenae           50680164         Pierson Donna C Trust         17.5         7.8         Arenae		• • • • • • • • • • • • • • • • • • •			
506801443         Rousseau Ii Apartments Suite 100         49.9         13.3         Arenac           506801513         Leesch Walter Arthur Iii & Cheryl C Trust         38.2         5.8         Arenac           506801514         Borushko William & Mary         38.2         5.8         Arenac           506801515         Krebsbach Hugo & Jarice         38.2         5.8         Arenac           506801516         Mielock Gary & Cathleen         38.2         5.8         Arenac           506801529         Ex Victor         53.7         18.3         Arenac           506801530         Ex Duane & Marilyn         53.7         18.3         Arenac           506801531         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenac           506801532         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenac           506801541         C sicsila Dartyl R         127.1         13.6         Arenac           506801572         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenac           506801574         C sicsila Dartyl R         127.1         13.6         Arenac           506801575         Lentz William & Gail M         132.2         22.3         Arenac					
506801513         Leesch Walter Arthur Iii & Cheryl C Trust         38.2         5.8         Arenac           506801514         Borushko William & Mary         38.2         5.8         Arenac           506801515         Krebsbach Hugo & Jarice         38.2         5.8         Arenac           506801516         Mielock Gary & Cathleen         38.2         5.8         Arenac           506801516         Mielock Gary & Cathleen         38.2         5.8         Arenac           506801517         Ex Victor         33.7         18.3         Arenac           506801530         Ex Duane & Marilyn         53.7         18.3         Arenac           506801531         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenac           506801532         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenac           506801540         C Sicala D arryl R         127.1         13.6         Arenac           506802554         Leritz William & Gail M         132.8         22.3         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           50680					
506801514         Borushko William & Mary         38.2         5.8         Arenac           506801515         Krebsbach Hugo & Jarice         38.2         5.8         Arenac           506801516         Mielock Gary & Cathleen         38.2         5.8         Arenac           506801529         Ex Victor         53.7         18.3         Arenac           506801530         Ex Duane & Marilyn         53.7         18.3         Arenac           506801531         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenac           506801532         Peterson Judith K & Robinson KimberlyS         53.7         18.3         Arenac           50680161         Csicsila Darryl R         127.1         13.6         Arenac           506801967         Pierson Donna C Trust         17.5         7.8         Arenac           506802444         12.0         6.2         Arenac           506802554         Lentz William & Gail M         132.8         22.3         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           506803123         Willett Gerald & Joyce         3					
506801515         Krebsbach Hugo & Jarace         38.2         5.8         Arenac           506801516         Mielock Gary & Cathleen         38.2         5.8         Arenac           506801529         Ex Victor         53.7         18.3         Arenac           506801530         Ex Duane & Marilyn         53.7         18.3         Arenac           506801531         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenac           506801532         Peterson Judith K & Robinson KimberlyS         53.7         18.3         Arenac           506801532         Peterson Judith K & Robinson KimberlyS         53.7         18.3         Arenac           506801540         Caissila Darryl R         127.1         13.6         Arenac           506802444         12.0         6.2         Arenac           506803104         Green Point Farm David M Schlanderer         305.6         156.4         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Berushko Marty         60.1         19.1         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803128         Willett		<del>-</del>			
506801516         Mielock Gary & Cathleen         38.2         5.8         Arenac           506801529         Ex Victor         33.7         18.3         Arenac           506801530         Ex Duene & Marilyn         53.7         18.3         Arenac           506801531         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenac           506801532         Peterson Judith K & Robinson KimberlyS         33.7         18.3         Arenac           506801532         Peterson Judith K & Robinson KimberlyS         33.7         18.3         Arenac           506801532         Peterson Judith K & Robinson KimberlyS         33.7         18.3         Arenac           506801531         Csicala Darryl R         127.1         13.6         Arenac           506801607         Pierson Doma C Trust         17.5         7.8         Arenac           506802444         12.0         6.2         Arenac           506802554         Lentz William & Gail M         132.8         22.3         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borusko Marty         60.1         19.1         Arenac           506803123         Willett Ger		<del>-</del>			
506801529         Ex Victor         53.7         18.3         Arenac           506801530         Ex Duane & Marilyn         53.7         18.3         Arenac           506801531         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenac           506801532         Peterson Judith K & Robinson Kimberly S         53.7         18.3         Arenac           50680161         Csicsila Darryl R         127.1         13.6         Arenac           506801967         Pierson Donna C Trust         17.5         7.8         Arenac           506802444         12.0         6.2         Arenac           506802554         Lentz William & Gail M         132.8         22.3         Arenac           506803104         Green Point Farm David M Schlanderer         305.6         156.4         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           506803127         Ruse Kim A - Lynn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803128         Wildet Kenneth & Scherry         38.9         11.2         Arenac           506803551		<del>-</del>			
South   State   Stat					
506801531         Peterson Judith K & Robinson Kimberly         53.7         18.3         Arenac           506801532         Peterson Judith K & Robinson Kimberly S         53.7         18.3         Arenac           506801761         C sicsila Darryl R         127.1         13.6         Arenac           506801967         Pierson Donna C Trust         17.5         7.8         Arenac           506802444         12.0         6.2         Arenac           506802554         Lentz William & Gail M         132.8         22.3         Arenac           506803104         Green Point Farm David M Schlanderer         305.6         156.4         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           506803127         Ruse Kim A - Lynn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           50680352					
506801532         Peterson Judith K & Robinson Kimberly S         53.7         18.3         Arenac           506801761         C sicsila Darryl R         127.1         13.6         Arenac           506801967         Pierson Donna C Trust         17.5         7.8         Arenac           506802444         12.0         6.2         Arenac           506802554         Lentz William & Gail M         132.8         22.3         Arenac           506803104         Green Point Farm David M Schlanderer         305.6         156.4         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           506803127         Ruse Kim A - Lymn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett G erald & Joyce         32.6         6.0         Arenac           506803128         Willett G erald & Sherry         38.9         11.2         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803552         Burnside Susanne Gail Trust % Comerica Bank         46.8         10.0         Arenac <t< td=""><td></td><td><del>-</del></td><td></td><td></td><td></td></t<>		<del>-</del>			
506801761         C sicsila Darryl R         127.1         13.6         Arenac           506801967         Pierson Donna C Trust         17.5         7.8         Arenac           506802444         12.0         6.2         Arenac           506802554         Lentz William & Gail M         132.8         22.3         Arenac           506803104         Green Point Farm David M Schlanderer         305.6         156.4         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           506803127         Ruse Kim A - Lynn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett G erald & Joyce         32.6         6.0         Arenac           506803467         Keefe Martha A M Trust & Etal         75.5         36.3         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803558         Burnside Susanne Gail Trust % Comerica Bank         46.8         10.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           5068		•			
506801967         Pierson Donna C Trust         17.5         7.8         Arenac           506802444         12.0         6.2         Arenac           506802554         Lentz William & Gail M         132.8         22.3         Arenac           506803104         Green Point Farm David M Schlanderer         305.6         156.4         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           506803127         Ruse Kim A - Lynn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803128         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803558         Burnside Susanne Gail Trust % Comerica Bank         46.8         10.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           506803598					
506802444         12.0         6.2         Arenac           506802554         Lentz William & Gail M         132.8         22.3         Arenac           506803104         Green Point Farm David M Schlanderer         305.6         156.4         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           506803127         Ruse Kim A - Lynn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803467         Keefe Martha A M Trust & Etal         75.5         36.3         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803558         Burnside Susanne Gail Trust %Comerica Bank         46.8         10.0         Arenac           506803563         Green Point Farms David M Schlanderer         609.5         100.0         Arenac           506803598         Hoerlein Paul & Mary Etal         44.8         22.2         Arenac           506803734         67.0         7.5         Arenac           506803769         H		· · · · · · · · · · · · · · · · · · ·			
506802554         Lentz William & Gail M         132.8         22.3         Arenac           506803104         Green Point Farm David M Schlanderer         305.6         156.4         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           506803127         Ruse Kim A - Lynn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803467         Keefe Martha A M Trust & Etal         75.5         36.3         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803558         Burnside Susanne Gail Trust % Comerica Bank         46.8         10.0         Arenac           506803563         Green Point Farms David M Schlanderer         609.5         100.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           506803598         Hoerlein Paul & Mary Etal         44.8         22.2         Arenac           506803734         67.0         7.5         Arenac		Helsul Dunia C Hust			_
506803104         Green Point Farm David M Schlanderer         305.6         156.4         Arenac           506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           506803127         Ruse Kim A - Lynn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803467         Keefe Martha A M Trust & Etal         75.5         36.3         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803558         Burnside Susanne Gail Trust % Comerica Bank         46.8         10.0         Arenac           506803563         Green Point Farms David M Schlanderer         609.5         100.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           506803598         Hoerlein Paul & Mary Etal         44.8         22.2         Arenac           506803734         67.0         7.5         Arenac           506803736         Hartley Jeffrey         152.0         33.8         Arenac		I and INCHIAN & Chailbd			
506803115         Davis Thomas H Jr         20.8         9.3         Arenac           506803123         Borushko Marty         60.1         19.1         Arenac           506803127         Ruse Kim A - Lynn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803467         Keefe Martha A M Trust & Etal         75.5         36.3         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803558         Burnside Susanne Gail Trust % Comerica Bank         46.8         10.0         Arenac           506803563         Green Point Farms David M Schlanderer         609.5         100.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           506803598         Hoerlein Paul & Mary Etal         44.8         22.2         Arenac           506803638         Mitchell Fred T & Wf         147.4         71.2         Arenac           506803734         67.0         7.5         Arenac           506803769         Hartley Jeffrey         152.0         33.8         Arenac					_
506803123         Borushko Marty         60.1         19.1         Arenac           506803127         Ruse Kim A - Lynn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett G erald & Joyce         32.6         6.0         Arenac           506803467         Keefe Martha A M Trust & Etal         75.5         36.3         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803558         Burnside Susanne G ail Trust % Comerica Bank         46.8         10.0         Arenac           506803553         Green Point Farms David M Schlanderer         609.5         100.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           506803598         Hoerlein Paul & Mary Etal         44.8         22.2         Arenac           506803638         Mitchell Fred T & Wf         147.4         71.2         Arenac           506803734         67.0         7.5         Arenac           506803769         Hartley Jeffrey         152.0         33.8         Arenac					
506803127         Ruse Kim A - Lynn P & Kevin & Kurt - Abbey Ruse         80.5         40.0         Arenac           506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803467         Keefe Martha A M Trust & Etal         75.5         36.3         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803558         Burnside Susanne Gail Trust % Comerica Bank         46.8         10.0         Arenac           506803563         Green Point Farms David M Schlanderer         609.5         100.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           506803598         Hoerlein Paul & Mary Etal         44.8         22.2         Arenac           506803638         Mitchell Fred T & Wf         147.4         71.2         Arenac           506803734         67.0         7.5         Arenac           506803769         Hartley Jeffrey         152.0         33.8         Arenac					
506803128         Willett Gerald & Joyce         32.6         6.0         Arenac           506803467         Keefe Martha A M Trust & Etal         75.5         36.3         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803558         Burnside Susanne Gail Trust %Comerica Bank         46.8         10.0         Arenac           506803563         Green Point Farms David M Schlanderer         609.5         100.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           506803598         Hoerlein Paul & Mary Etal         44.8         22.2         Arenac           506803638         Mitchell Fred T & Wf         147.4         71.2         Arenac           506803734         67.0         7.5         Arenac           506803769         Hartley Jeffrey         152.0         33.8         Arenac					_
506803467         Keefe Martha A M Trust & Etal         75.5         36.3         Arenac           506803551         Waldie Kenneth & Sherry         38.9         11.2         Arenac           506803558         Burnside Susanne Gail Trust % Comerica Bank         46.8         10.0         Arenac           506803563         Green Point Farms David M Schlanderer         609.5         100.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           506803598         Hoerlein Paul & Mary Etal         44.8         22.2         Arenac           506803638         Mitchell Fred T & Wf         147.4         71.2         Arenac           506803734         67.0         7.5         Arenac           506803769         Hartley Jeffrey         152.0         33.8         Arenac					
506803551       Waldie Kenneth & Sherry       38.9       11.2       Arenac         506803558       Burnside Susanne Gail Trust % Comerica Bank       46.8       10.0       Arenac         506803563       Green Point Farms David M Schlanderer       609.5       100.0       Arenac         506803597       Manor James R Jr \$ Margaret       121.0       53.0       Arenac         506803598       Hoerlein Paul & Mary Etal       44.8       22.2       Arenac         506803638       Mitchell Fred T & Wf       147.4       71.2       Arenac         506803734       67.0       7.5       Arenac         506803769       Hartley Jeffrey       152.0       33.8       Arenac					
506803558         Burnside Susanne Gail Trust % Comerica Bank         46.8         10.0         Arenac           506803563         Green Point Farms David M Schlanderer         609.5         100.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           506803598         Hoerlein Paul & Mary Etal         44.8         22.2         Arenac           506803638         Mitchell Fred T & Wf         147.4         71.2         Arenac           506803734         67.0         7.5         Arenac           506803769         Hartley Jeffrey         152.0         33.8         Arenac					_
506803563         Green Point Farms David M Schlanderer         609.5         100.0         Arenac           506803597         Manor James R Jr \$ Margaret         121.0         53.0         Arenac           506803598         Hoerlein Paul & Mary Etal         44.8         22.2         Arenac           506803638         Mitchell Fred T & Wf         147.4         71.2         Arenac           506803734         67.0         7.5         Arenac           506803769         Hartley Jeffrey         152.0         33.8         Arenac		• • • • • • • • • • • • • • • • • • •			
506803597       Manor James R Jr \$ Margaret       121.0       53.0       Arenac         506803598       Hoerlein Paul & Mary Etal       44.8       22.2       Arenac         506803638       Mitchell Fred T & Wf       147.4       71.2       Arenac         506803734       67.0       7.5       Arenac         506803769       Hartley Jeffrey       152.0       33.8       Arenac					
506803598       Hoerlein Paul & Mary Etal       44.8       22.2       Arenac         506803638       Mitchell Fred T & Wf       147.4       71.2       Arenac         506803734       67.0       7.5       Arenac         506803769       Hartley Jeffrey       152.0       33.8       Arenac					
506803638       Mitchell Fred T & Wf       147.4       71.2       Arenac         506803734       67.0       7.5       Arenac         506803769       Hartley Jeffrey       152.0       33.8       Arenac					
506803734         67.0         7.5         Arenac           506803769         Hartley Jeffrey         152.0         33.8         Arenac	506803598	<u>-</u>			
506803769 Hartley Jeffrey 152.0 33.8 Arenac		Mitchell Fred T & Wf			
	506803734				Arenac
506803786 49.4 10.0 Arenac	506803769	Hartley Jeffrey			Arenac
	506803786		49.4	10,0	Arenac

Social Content	L	Landowner	Acreage of Parcel	Acreage of Unprotected Wetlands	County
Social School   State   Stat	4 N	Mattis Kerneth H Trust	285.9	111.8	Arenac
Some	1 N	Mattis Kerneth H Trust	31.6	16.3	Arenac
Document   Document	-		10.0	5.1	Arenac
Dew ald Brent J   17.2   7.3   Arene   506803997   Manor Mark C/O Devin Manor   17.5   9.0   Arene   506803997   Ahem Richard H & Marion M   69.9   7.1   Arene   506804003   Valley Craig J & Dorma L   79.9   18.1   Arene   506804003   Valley Craig J & Dorma L   79.9   18.1   Arene   506804014   Andersen Ronald & Delores   15.6   7.4   Arene   506804014   Andersen Ronald & Delores   15.6   7.4   Arene   506804014   Andersen Ronald & Delores   15.6   7.4   Arene   506804020   Zemore John A   71.5   27.9   Arene   506804023   Mattis Kerneth H Trust   66.0   29.0   Arene   506804038   Mattis Kerneth H Trust   118.7   58.1   Arene   506804038   Mattis Kerneth H Trust   233.7   120.8   Arene   506804099   Mattis Kerneth H Trust   34.9   18.1   Arene   506804104   Martindale Famity Trust   16.4   8.5   Arene   506804174   Jankowiak Brian P & Rebecca M 2282 Swenson   14.0   7.2   Arene   506804175   Schaeding Leonard & Colleen   19.0   9.0   Arena   506804206   Streeter Jason G   37.3   16.4   Arena   506804206   Streeter Jason G   37.5   38.3   Arena   506804211   Luberda F em (L/E) C/O Luberda Albert &   77.1   23.8   Arena   506804212   Manor Edward   20.9   10.2   Arena   506804212   Manor Edward   20.9   10.2   Arena   506804213   Selle Walter L & Robert A   76.9   39.7   Arena   506804217   Urban Gregory L & Brenda   38.4   26.7   Arena   506804217   Urban Gregory L & Brenda   38.4   26.7   Arena   506804216   Mattis Kerneth H Trust   114.7   51.5   Arena   506804221   Mattis Kerneth H Trust   114.7   51.5   Arena   506804234   Selle Robert Glen & Walter   38.2   19.6   Arena   506804234   Selle Robert Glen & Walter   38.2   19.6   Arena   50680431   Shorkey Mark A & Karen J Penkala-Shorkey   138.4   20.3   Arena   506804421   Borushko Marty   114.3   28.0   Arena   506804449   Borushko Marty   14.8   8.4   Arena   506804449   Labean Robert L & Doris B & Butter Joel David David Halbean   59.4   Arena   506804449   Labean Robert L & Doris B & Butter Joel David David   59.4   Arena   506804449   Labean Robert L &	3 L	Lauinger Patrick G & Lauinger Jerome Joseph	34.8	12.8	Arenac
Social State	7 E	Ebert Betty Jane		6.0	Arenac
506803998         Ahem Richard H & Marion M         69.9         7.1         Arene           506804003         Valley Craig J & Dorma L         79.9         18.1         Arene           506804005         Whitney Terry K & Vickie L         63.7         21.1         Arene           506804014         Andersen Ronald & Delores         15.6         7.4         Arene           506804020         Zemore John A         71.5         27.9         Arene           506804037         Mattis Kerneth H Trust         66.0         29.0         Arene           506804038         Mattis Kerneth H Trust         233.7         120.8         Arene           506804090         Mattis Kerneth H Trust         34.9         18.1         Arene           506804170         Jankowiak Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arene           506804175         Schaeding Leonard & Colleen         19.0         9.0         Arene           506804188         Bayside Builders Augres Lle Dan Ralph         37.3         16.4         Arene           506804206         Streeter JasonG         37.5         18.3         Arena           506804211         Luberda Fem L/E C/O Luberda Albert &         77.1         23.8         Arena <tr< td=""><td>0 D</td><td>Dewald Brent J</td><td>17.2</td><td>7.3</td><td>Arenac</td></tr<>	0 D	Dewald Brent J	17.2	7.3	Arenac
506804003         Valley Craig J & Dorma L         79.9         18.1         Arene           506804005         Whitney Terry K & Vickie L         63.7         21.1         Arene           506804014         Ander sen Ronald & Delores         15.6         7.4         Arene           506804020         Zemore John A         71.5         27.9         Arene           506804037         Mattis Kerneth H Trust         66.0         29.0         Arene           506804038         Mattis Kerneth H Trust         118.7         38.1         Arene           506804099         Mattis Kerneth H Trust         34.9         18.1         Arene           506804090         Mattis Kerneth H Trust         34.9         18.1         Arene           506804174         Jankowick Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arene           506804175         Scheeding Leonard & Colleen         19.0         9.0         Arene           506804128         Bayside Builders Augres Lle Dan Ralph         37.3         16.4         Arene           506804210         Streeter Jason G         37.5         18.3         Arena           506804211         Luberda Fem L/E C/O Luberda Albert &         77.1         18.3         Arena	7 M	Manor Mark C/O Devin Manor	17.5	9.0	Arenac
506804005         Whitney Terry K & Vickie L         63.7         21.1         Arena           506804014         Andersen Ronald & Delores         15.6         7.4         Arena           506804020         Zemore John A         71.5         27.9         Arena           506804087         Mattis Kerneth H Trust         66.0         29.0         Arena           506804088         Mattis Kerneth H Trust         118.7         38.1         Arena           506804089         Mattis Kerneth H Trust         233.7         120.8         Arena           506804090         Mattis Kerneth H Trust         34.9         18.1         Arena           506804106         Martindale Family Trust         16.4         8.5         Arena           506804174         Jankowiak Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arena           506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena           506804183         Bayside Builders Augres Lle Dan Ralph         37.3         16.4         Arena           506804206         Streeter Jason G         37.5         18.3         Arena           506804217         Luberda Fem L/E C/O Luberda Michael         90.6         39.9         Arena	8 A	Ahem Richard H & Marion M	69.9	7.1	Arenac
506804014         Andersen Ronald & Delores         15.6         7.4         Arena 506804020         Zemore John A         71.5         27.9         Arena 506804020         Arena 506804027         Mattis Kermeth H Trust         66.0         29.0         Arena 506804038         Mattis Kermeth H Trust         118.7         58.1         Arena 506804039         Mattis Kermeth H Trust         233.7         120.8         Arena 506804090         Mattis Kermeth H Trust         34.9         18.1         Arena 506804106         Martindale Family Trust         16.4         8.5         Arena 506804106         Martindale Family Trust         16.4         8.5         Arena 506804174         Jankowiak Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arena 506804174         Jankowiak Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arena 506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena 506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena 506804183         Bayside Builders Augres Lle Dan Ralph         37.3         16.4         Arena 506804183         Bayside Builders Augres Lle Dan Ralph         37.3         16.4         Arena 506804212         Arena 506804206         Streeter Jason G         37.5         18.3         Arena 50680421         Arena 50680421         Manor Edward         20.9         10.2         Aren	3 <b>V</b>	Valley Craig J & Donna L	79.9	18.1	Arenac
506804020         Zemore John A         71.5         27.9         Arena 506804087         Mattis Kermeth H Trust         66.0         29.0         Arena 506804083         Mattis Kermeth H Trust         118.7         58.1         Arena 506804089         Mattis Kermeth H Trust         118.7         58.1         Arena 506804090         Mattis Kermeth H Trust         233.7         120.8         Arena 506804090         Mattis Kermeth H Trust         34.9         18.1         Arena 506804106         Martindale Family Trust         16.4         8.5         Arena 506804174         Jankowiak Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arena 506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena 506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena 506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena 506804183         Bayside Builders Augres Lle Dan Ralph         37.3         16.4         Arena 506804206         Streeter Jason G         37.5         18.3         Arena 506804206         Streeter Jason G         37.5         18.3         Arena 50680421         Luberda Fem L/E C/O Luberda Albert & 7.1         23.8         Arena 506804221         Manor Edward         20.9         10.2         Arena 50680421         Manor Edward         20.9         10.2         Arena 50680421         Urban	5 V	Whitney Terry K & Vickie L	63.7	21.1	Arenac
506804087         Mattis Kerneth H Trust         66 0         29 0         Arena           506804088         Mattis Kerneth H Trust         118.7         58.1         Arena           506804089         Mattis Kerneth H Trust         233.7         120.8         Arena           506804090         Mattis Kerneth H Trust         34.9         18.1         Arena           506804106         Martindale Farnity Trust         16.4         8.5         Arena           506804174         Jankowiak Brian P & Rebecca M 2282 Swenson         140         7.2         Arena           506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena           506804183         Bayside Builders Augres Lle Dan Ralph         37.3         16.4         Arena           506804128         Bayside Fem L/E C/O Luberda Albert &         77.1         23.8         Arena           506804206         Streeter Jason G         37.5         18.3         Arena           506804211         Luberda Fem (L/E) C/O Luberda Albert &         77.1         23.8         Arena           506804212         Manor Edward         20.9         10.2         Arena           506804212         Manor Edward         30.7         41.7         Arena	4 A	Andersen Ronald & Delores	15.6	7.4	Arenac
506804088         Mattis Kerneth H Trust         118.7         58.1         Arena           506804089         Mattis Kerneth H Trust         233.7         120.8         Arena           506804090         Mattis Kerneth H Trust         34.9         18.1         Arena           506804106         Martindale Family Trust         16.4         8.5         Arena           506804174         Jankowiak Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arena           506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena           506804188         Bayside Builders Augres Lle Dan Ralph         37.3         16.4         Arena           506804206         Streeter Jason G         37.5         18.3         Arena           506804207         Luberda Fem L/E C/O Luberda Albert &         77.1         23.8         Arena           506804211         Luberda Fem L/E C/O Luberda Michael         90.6         39.9         Arena           506804212         Manor Edward         20.9         10.2         Arena           506804213         Selle Walter L & Robert A         76.9         39.7         Arena           506804216         Urban Gregory L & Brenda         38.4         26.7         Arena <td>Z</td> <td>Zemore John A</td> <td>7i .5</td> <td>27.9</td> <td>Arenac</td>	Z	Zemore John A	7i .5	27.9	Arenac
506804089         Mattis Kerneth H Trust         233.7         120.8         Arena           506804090         Mattis Kerneth H Trust         34.9         18.1         Arena           506804106         Martindale Family Trust         16.4         8.5         Arena           506804174         Jankowiak Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arena           506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena           506804183         Bayside Builders Augres Llc Dan Ralph         37.3         16.4         Arena           506804206         Streeter Jason G         37.5         18.3         Arena           506804207         Luberda F em L/E C/O Luberda Albert &         77.1         23.8         Arena           506804211         Luberda F em L/E C/O Luberda Michael         90.6         39.9         Arena           506804212         Manor Edward         20.9         10.2         Arena           506804213         Selle Walter L & Robert A         76.9         39.7         Arena           506804216         Urban Gregory L & Brenda         38.4         26.7         Arena           506804217         Urban Gregory L & Brenda         38.4         26.7         Arena     <	7 M	Mattis Kermeth H Trust	66.0	29.0	Arenac
506804090         Mattis Kermeth H Trust         34.9         18.1         Arena 506804106           506804106         Martindale Family Trust         16.4         8.5         Arena 506804174           506804174         Jankowiak Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arena 506804175           506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena 506804188           506804206         Streeter JasonG         37.5         18.3         Arena 506804206           506804207         Luberda Fem L/E C/O Luberda Albert & 77.1         23.8         Arena 506804211           506804211         Luberda Fem (L/E) C/O Luberda Michael         90.6         39.9         Arena 506804212           506804212         Manor Edward         20.9         10.2         Arena 506804213           506804213         Selle Walter L & Robert A         76.9         39.7         Arena 506804216           506804216         UrbanGregory L & Brenda         38.4         26.7         Arena 506804217           506804219         Mattis Kermeth H Trust         114.7         51.5         Arena 506804221           506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena 506804225           506804237         Volk Thomas	3 M	Mattis Kenneth H Trust	118.7	58.1	Arenac
506804106         Martindale Family Trust         16.4         8.5         Arena           506804174         Jankowiak Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arena           506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena           506804188         Bayside Builders Augres Lle Dan Ralph         37.3         16.4         Arena           506804206         Streeter Jason G         37.5         18.3         Arena           506804207         Luberda Fem L/E C/O Luberda Albert &         77.1         23.8         Arena           506804211         Luberda Fem (L/E) C/O Luberda Michael         90.6         39.9         Arena           506804212         Manor Edward         20.9         10.2         Arena           506804213         Selle Walter L & Robert A         76.9         39.7         Arena           506804214         Urban Gregory L & Brenda         30.7         41.7         Arena           506804217         Urban Gregory L & Brenda         58.4         26.7         Arena           506804219         Mattis Kerneth H Trust         114.7         51.5         Arena           506804221         Mattis Kerneth H Trust         114.7         51.5         Arena     <	9 M	Mattis Kenneth H Trust	233.7	120.8	Arenac
506804174         Jankowiak Brian P & Rebecca M 2282 Swenson         14.0         7.2         Arena 506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena 506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena 506804188         Bayside Builders Augres Lle Dan Ralph         37.3         16.4         Arena 506804206         Streeter Jason G         37.5         18.3         Arena 506804207         Luberda Fern L/E C/O Luberda Albert & 77.1         23.8         Arena 506804211         Luberda Fern L/E C/O Luberda Michael         90.6         39.9         Arena 506804211         Luberda Fern L/E C/O Luberda Michael         90.6         39.9         Arena 506804212         Manor Edward         20.9         10.2         Arena 506804213         Selle Walter L & Robert A         76.9         39.7         Arena 506804213         Selle Walter L & Robert A         76.9         39.7         Arena 506804213         Walter Geory L & Brenda 58.4         26.7         Arena 506804217         Urban Gregory L & Brenda 58.4         26.7         Arena 506804219         Mattis Kermeth H Trust 114.7         51.5         Arena 506804221         Mattis Kermeth H Trust 79.6         41.1         Arena 506804225         Schwiderson Patrick & Helena 16.9         7.7         Arena 506804225         Schwiderson Patrick & Helena 16.9         7.7         Arena 506804225         Selle Robert Glen & Walter 22.1	) M	Mattis Kenneth H Trust	34.9	18.1	Arenac
506804175         Schaeding Leonard & Colleen         19.0         9.0         Arena           506804188         Bayside Builders Augres Llc Dan Ralph         37.3         16.4         Arena           506804206         Streeter Jason G         37.5         18.3         Arena           506804207         Luberda Fem L/E C/O Luberda Albert &         77.1         23.8         Arena           506804211         Luberda Fem (L/E) C/O Luberda Michael         90.6         39.9         Arena           506804212         Manor Edward         20.9         10.2         Arena           506804213         Selle Walter L & Robert A         76.9         39.7         Arena           506804216         Urban Gregory L & Brenda         80.7         41.7         Arena           506804217         Urban Gregory L & Brenda         58.4         26.7         Arena           506804219         Mattis Kermeth H Trust         114.7         51.5         Arena           506804221         Mattis Kermeth H Trust         79.6         41.1         Arena           506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena           506804225         Schwiderson Patrick & Walter         38.2         19.6         Arena	5 M	Martindale Family Trust	16.4	8.5	Arenac
506804188         Bayside Builders Augres Llc Dan Ralph         37.3         16.4         Arena           506804206         Streeter Jason G         37.5         18.3         Arena           506804207         Luberda Fem L/E C/O Luberda Albert &         77.1         23.8         Arena           506804211         Luberda Fem (L/E) C/O Luberda Michael         90.6         39.9         Arena           506804212         Manor Edward         20.9         10.2         Arena           506804213         Selle Walter L & Robert A         76.9         39.7         Arena           506804216         Urben Gregory L & Brenda         80.7         41.7         Arena           506804217         Urban Gregory L & Brenda         38.4         26.7         Arena           506804219         Mattis Kemeth H Trust         114.7         51.5         Arena           506804221         Mattis Kemeth H Trust         79.6         41.1         Arena           506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena           506804235         Carswell Jimmy L         22.1         10.5         Arena           506804371         Volk Thomas & Mary Ellen         22.4         10.8         Arena <td< td=""><td>4 Ja</td><td>Jankowiak Brian P &amp; Rebecca M 2282 Swenson</td><td>14.0</td><td>7.2</td><td>Arenac</td></td<>	4 Ja	Jankowiak Brian P & Rebecca M 2282 Swenson	14.0	7.2	Arenac
506804206         Streeter Jason G         37.5         18.3         Arena 506804207         Luberda Fern L/E C/O Luberda Albert & 77.1         23.8         Arena 506804211         Luberda Fern (L/E) C/O Luberda Michael         90.6         39.9         Arena 506804212         Manor Edward         20.9         10.2         Arena 506804213         Selle Walter L & Robert A         76.9         39.7         Arena 506804213         Selle Walter L & Robert A         76.9         39.7         Arena 506804216         Urban Gregory L & Brenda         80.7         41.7         Arena 506804216         Urban Gregory L & Brenda         58.4         26.7         Arena 506804217         Urban Gregory L & Brenda         58.4         26.7         Arena 506804219         Mattis Kermeth H Trust         114.7         51.5         Arena 506804221         Mattis Kermeth H Trust         79.6         41.1         Arena 506804222         Schwiderson Patrick & Helena         16.9         7.7         Arena 506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena 506804225         Sclle Robert Glen & Walter         38.2         19.6         Arena 506804324         Selle Robert Glen & Walter         38.2         19.6         Arena 506804371         Volk Thomas & Mary Ellen         22.4         10.8         Arena 506804371         Volk Thomas & Mary Ellen         22.4         10.8         Arena 5	5 ສ	Schaeding Leonard & Colleen	19.0	9.0	Arenac
506804207         Luberda Fem L/E C/O Luberda Albert &         77.1         23.8         Arena           506804211         Luberda Fem (L/E) C/O Luberda Michael         90.6         39.9         Arena           506804212         Manor Edward         20.9         10.2         Arena           506804213         Selle Walter L & Robert A         76.9         39.7         Arena           506804216         Urban Gregory L & Brenda         80.7         41.7         Arena           506804217         Urban Gregory L & Brenda         58.4         26.7         Arena           506804219         Mattis Kermeth H Trust         114.7         51.5         Arena           506804221         Mattis Kermeth H Trust         79.6         41.1         Arena           506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena           506804285         Carswell Jimmy L         22.1         10.5         Arena           506804324         Selle Robert Glen & Walter         38.2         19.6         Arena           506804371         Volk Thomas & Mary Ellen         22.4         10.8         Arena           506804406         Willis Elmer Jr & Patricia         20.0         7.5         Arena <td< td=""><td>3 B</td><td>Bayside Builders Augres Llc Dan Ralph</td><td>37.3</td><td>16.4</td><td>Arenac</td></td<>	3 B	Bayside Builders Augres Llc Dan Ralph	37.3	16.4	Arenac
506804211         Luberda Fem (L/E) C/O Luberda Michael         90.6         39.9         Arena           506804212         Manor Edward         20.9         10.2         Arena           506804213         Selle Walter L & Robert A         76.9         39.7         Arena           506804216         Urban Gregory L & Brenda         80.7         41.7         Arena           506804217         Urban Gregory L & Brenda         58.4         26.7         Arena           506804219         Mattis Kermeth H Trust         114.7         51.5         Arena           506804221         Mattis Kermeth H Trust         79.6         41.1         Arena           506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena           506804285         Carswell Jimmy L         22.1         10.5         Arena           506804324         Selle Robert Glen & Walter         38.2         19.6         Arena           506804371         Volk Thomas & Mary Ellen         22.4         10.8         Arena           506804413         Shorkey Mark A & Karen J Penkala-Shorkey         158.4         20.3         Arena           506804420         Borushko Marty         114.3         28.0         Arena           5068	S St	Streeter Jason G	37.5	18.3	Arenac
506804212         Manor Edward         20.9         10.2         Arena 506804213         Selle Walter L & Robert A         76.9         39.7         Arena 506804216         Urban Gregory L & Brenda         80.7         41.7         Arena 506804217         Urban Gregory L & Brenda         58.4         26.7         Arena 506804217         Urban Gregory L & Brenda         58.4         26.7         Arena 506804219         Mattis Kenneth H Trust         114.7         51.5         Arena 506804221         Mattis Kenneth H Trust         79.6         41.1         Arena 506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena 506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena 506804224         Selle Robert Glen & Walter         38.2         19.6         Arena 506804324         Selle Robert Glen & Walter         38.2         19.6         Arena 506804431         Volk Thomas & Mary Ellen         22.4         10.8         Arena 506804446         Willis Elmer Jr & Patricia         20.0         7.5         Arena 506804413         Shorkey Mark A & Karen J Penkala-Shorkey         158.4         20.3         Arena 506804420         Borushko Marty         114.3         28.0         Arena 506804421         Borushko Marty         18.3         6.8         Arena 506804427         Campau James C & Carol S         147.9         54.7         Arena 50680	7 Li	Luberda Fern L/E C/O Luberda Albert &	77.1	23.8	Arenac
506804213         Selle Walter L & Robert A         76.9         39.7         Arena 506804216         Urban Gregory L & Brenda         80.7         41.7         Arena 506804217         Urban Gregory L & Brenda         58.4         26.7         Arena 506804219         Mattis Kerneth H Trust         114.7         51.5         Arena 506804221         Mattis Kerneth H Trust         79.6         41.1         Arena 506804221         Mattis Kerneth H Trust         79.6         41.1         Arena 506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena 506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena 506804225         Arena 506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena 506804225         Arena 506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena 506804225         Arena 506804225         Arena 506804225         Arena 506804226         Arena	l L	Luberda Fem (LÆ) C/O Luberda Michael	90.6	39.9	Arenac
506804216         Urban Gregory L & Brenda         80.7         41.7         Arena           506804217         Urban Gregory L & Brenda         58.4         26.7         Arena           506804219         Mattis Kerneth H Trust         114.7         51.5         Arena           506804221         Mattis Kerneth H Trust         79.6         41.1         Arena           506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena           506804285         Carswell Jimmy L         22.1         10.5         Arena           506804324         Selle Robert Glen & Walter         38.2         19.6         Arena           506804371         V olk Thomas & Mary Ellen         22.4         10.8         Arena           506804406         Willis Elmer Jr & Patricia         20.0         7.5         Arena           506804413         Shorkey Mark A & Karen J Penkala-Shorkey         158.4         20.3         Arena           506804420         Borushko Marty         114.3         28.0         Arena           506804421         Borushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804446	2 M	Manor Edward	20.9	10.2	Arenac
506804217         UrbanGregory L & Brenda         58.4         26.7         Arena           506804219         Mattis Kerneth H Trust         114.7         51.5         Arena           506804221         Mattis Kerneth H Trust         79.6         41.1         Arena           506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena           506804285         Carswell Jimmy L         22.1         10.5         Arena           506804324         Selle Robert Glen & Walter         38.2         19.6         Arena           506804371         Volk Thomas & Mary Ellen         22.4         10.8         Arena           506804406         Willis Elmer Jr & Patricia         20.0         7.5         Arena           506804413         Shorkey Mark A & Karen J Penkala-Shorkey         158.4         20.3         Arena           506804420         Borushko Marty         114.3         28.0         Arena           506804421         Borushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446	3 Se	Selle Walter L & Robert A	76.9	39.7	Arenac
506804217         UrbanGregory L & Brenda         58.4         26.7         Arena           506804219         Mattis Kerneth H Trust         114.7         51.5         Arena           506804221         Mattis Kerneth H Trust         79.6         41.1         Arena           506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena           506804285         Carswell Jimmy L         22.1         10.5         Arena           506804324         Selle Robert Glen & Walter         38.2         19.6         Arena           506804371         Volk Thomas & Mary Ellen         22.4         10.8         Arena           506804406         Willis Elm er Jr & Patricia         20.0         7.5         Arena           506804413         Shorkey Mark A & Karen J Penkala-Shorkey         158.4         20.3         Arena           506804420         Borushko Marty         114.3         28.0         Arena           506804421         Borushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449	5 U:	Urban Gregory L & Brenda	80.7	41.7	Arenac
506804219       Mattis Kerneth H Trust       114.7       51.5       Arena         506804221       Mattis Kerneth H Trust       79.6       41.1       Arena         506804225       Schwiderson Patrick & Helena       16.9       7.7       Arena         506804285       Carswell Jimmy L       22.1       10.5       Arena         506804324       Selle Robert Glen & Walter       38.2       19.6       Arena         506804371       Volk Thomas & Mary Ellen       22.4       10.8       Arena         506804406       Willis Elmer Jr & Patricia       20.0       7.5       Arena         506804413       Shorkey Mark A & Karen J Penkala-Shorkey       158.4       20.3       Arena         506804420       Borushko Marty       114.3       28.0       Arena         506804421       Borushko Marty       18.3       6.8       Arena         506804427       Campau James C & Carol S       147.9       54.7       Arena         506804445       Cracchiolo Arthony J       74.8       8.4       Arena         506804446       Butler Joel D & Rebecca L       18.8       5.0       Arena         506804449       Labean Robert L & Doris B & Butler Joel David       57.3       13.1       Arena     <	<b>7</b> U:	Urban Gregory L & Brenda	58.4	26.7	Arenac
506804225         Schwiderson Patrick & Helena         16.9         7.7         Arena           506804285         Carswell Jimmy L         22.1         10.5         Arena           506804324         Selle Robert Glen & Walter         38.2         19.6         Arena           506804371         Volk Thomas & Mary Ellen         22.4         10.8         Arena           506804406         Willis Elmer Jr & Patricia         20.0         7.5         Arena           506804413         Shorkey Mark A & Karen J Penkala-Shorkey         158.4         20.3         Arena           506804420         Borushko Marty         114.3         28.0         Arena           506804421         Borushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena			114.7	51.5	Arenac
506804285         Carswell Jimmy L         22.1         10.5         Arena           506804324         Selle Robert Glen & Walter         38.2         19.6         Arena           506804371         Volk Thomas & Mary Ellen         22.4         10.8         Arena           506804406         Willis Elmer Jr & Patricia         20.0         7.5         Arena           506804413         Shorkey Mark A & Karen J Penkala-Shorkey         158.4         20.3         Arena           506804420         Borushko Marty         114.3         28.0         Arena           506804421         Borushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena	M	Mattis Kenneth H Trust	79.6	41.1	Arenac
506804324         Selle Robert Glen & Walter         38.2         19.6         Arena           506804371         Volk Thomas & Mary Ellen         22.4         10.8         Arena           506804406         Willis Elmer Jr & Patricia         20.0         7.5         Arena           506804413         Shorkey Mark A & Karen J Penkala-Shorkey         158.4         20.3         Arena           506804420         Borushko Marty         114.3         28.0         Arena           506804421         Borushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena	5 Sc	Schwiderson Patrick & Helena	16.9	7.7	Arenac
506804324       Selle Robert Glen & Walter       38.2       19.6       Arena         506804371       Volk Thomas & Mary Ellen       22.4       10.8       Arena         506804406       Willis Elmer Jr & Patricia       20.0       7.5       Arena         506804413       Shorkey Mark A & Karen J Penkala-Shorkey       158.4       20.3       Arena         506804420       Borushko Marty       114.3       28.0       Arena         506804421       Borushko Marty       18.3       6.8       Arena         506804427       Campau James C & Carol S       147.9       54.7       Arena         506804445       Cracchiolo Anthony J       74.8       8.4       Arena         506804446       Butler Joel D & Rebecca L       18.8       5.0       Arena         506804449       Labean Robert L & Doris B & Butler Joel David       57.3       13.1       Arena	C:	Carswell Jimmy L	22.1	10.5	Arenac
506804406         Willis Elmer Jr & Patricia         20.0         7.5         Arena           506804413         Shorkey Mark A & Karen J Penkala-Shorkey         158.4         20.3         Arena           506804420         Borushko Marty         114.3         28.0         Arena           506804421         Borushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena		<del>-</del>	38.2	19.6	Arenac
506804406         Willis Elmer Jr & Patricia         20.0         7.5         Arena           506804413         Shorkey Mark A & Karen J Penkala-Shorkey         158.4         20.3         Arena           506804420         Borushko Marty         114.3         28.0         Arena           506804421         Borushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena	. V	Volk Thomas & Mary Ellen	22.4	10.8	Arenac
506804420         Borushko Marty         114.3         28.0         Arena           506804421         Borushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena			20.0	7.5	Arenac
506804420         Borushko Marty         114.3         28.0         Arena           506804421         Borushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena	SI SI	Shorkey Mark A & Karen J Penkala-Shorkey	158.4	20.3	Arenac
506804421         Berushko Marty         18.3         6.8         Arena           506804427         Campau James C & Carol S         147.9         54.7         Arena           506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena			114.3	28.0	Arenac
506804427         Campau James C & Carol S         147.9         54.7         Arena           506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena		<del>-</del>	18.3	6.8	Arenac
506804445         Cracchiolo Anthony J         74.8         8.4         Arena           506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena			147.9	54.7	Arenac
506804446         Butler Joel D & Rebecca L         18.8         5.0         Arena           506804449         Labean Robert L & Doris B & Butler Joel David         57.3         13.1         Arena					Arenac
506804449 Labean Robert L & Doris B & Butler Joel David 57.3 13.1 Arena		<u>-</u>			Arenac
			57.3		Arenac
506804455 Gordon Ira Joe & Audrey Arm 66.4 25.5 Arena		Gordon Ira Joe & Audrey Arm	66.4	25.5	Arenac
		Davis Lawrence M			Arenac
		·			Arenac
					Arenac
		Dewald Alloves & Trov S			Arenac
talan kalang ang ang ang ang ang ang ang ang ang					Arenac
		•			Arenac
		<u>-</u>			Arenac
					Arenac
					Arenac
					Arenac

Parcell D	Landowner	Acreage of Parcel	Acreage of Unprotected Wetlands	County
506804649	Willett G erald & J oyce	77.8	31.3	Arenac
506804657	Looney Vernon W & Brenda L	51.7	20.7	Arenac
506804659	Ruse Sheridan C Jr & Tanja E	51.7	23.0	Arenac
506804754	Niemberg Robert T & Jeannett	22.6	10.6	Arenac
506804988	Trombley Nancy C & Thomas Nathan	257.7	22.4	Arenac
506805010	Puwal E Louis	64.6	10.9	Arenac
506805023	Seile Theodore A & Lou Ann	160.4	28.8	Arenac
506805024	Selle Dwight & Marvin	79.9	37.5	Arenac
506805026	Daniels Ernest G & Karen	62.4	29.1	Arenac
506805030	Roberts Family Trust Roberts Lloyd & Mary	103.0	13.3	Arenac
50680 <i>5</i> 032	Augres Property Lic	79.2	40.9	Arenac
506805037	Markley Joseph L & Francis L Trust	77.2	39.7	Arenac
506805074	Orel Albin J & John P	31.1	9.0	Arenac
506805114	Augres Property Lic	148.1	75.9	Arenac
506805116	Olsen Harold D & Beverly J	73.4	37.5	Arenac
506805209	•	79.7	34.1	Arenac
506805212		69.9	11.9	Arenac
506805284		62.3	20.0	Arenac
506805291	Nowak Richard	139.2	53.0	Arenac
506805462	United States Of America Saginaw Chippewa Ind	116.8	39.6	Arenac
506805496	Holmes Doris Kinch	11.1	5.2	Arenac
506805520	Wiegand Dean & Lisa J Dean W Wiegand Trust	22.1	7.9	Arenac
506805944	Bauldry John R	78.8	6.8	Arenac
506806005	Yotkois George W & Patti Jane	68.4	32.3	Arenac
506806007	Powell Patricia	73.4	37.9	Arenac
506806010	Olsen Harold D & Beverly J	73.7	37.7	Arenac
506806219	Bilacic Gary	70.2	21.1	Arenac
506806454	Porath John C & Lynn M	80.5	21.0	Arenac
506806917	Nowak Charles A & Nancy & Nowak Gerald J & Jud	141.0	10.1	Arenac
506807440	United States Of America	16,0	5.2	Arenac
506808115	Alien Doyle & Dorothy	30.4	15.0	Arenac
506808426	Brown Thomas & Judith	24.8	12.6	Arenac
506808569	Foco Ronald G & Susan M	59.1	25.2	Arenac
506808679	Fabisiak Matthew M	20.5	9.1	Arenac
506808797	Murphy Robert E & Sharron M Trust	20.9	7.9	Arenac
506808850	Petty William A Trust	20.9	8.2	Arenac
506808894	Bundesen Milford & Irene Trust	20.0 16.8	7.7	Arenac
506808928	Glazier Darrell G & Phyllis M	20.3	9.1	
				Arenac
506808973	Dubowsky Harold S Jr	17.0	6.4	Arenac
506809752	Boyle David H & Rose M	136.2	9.2	Arenac
506809912	Parent Charles L & Karen S	74.7	6.7	Arenac
506810116	Goretcki David E & Carol C	35.7	12.7	Arenac
506810171	Rokosz Dolores	20.6	9.0	Arenac
010-003-300-010-00		336.4	103.4	Bay
010-004-100-010-00		94.6	50.2	Bay
010-004-200-010-00		8.4	6.4	Bay
010-004-200-090-00		19.9	6.6	Bay
010-004-200-220-00		17.4	14.6	Bay
010-004-400-020-00		25.1	9.9	Bay
010-004-400-140-00		24.1	14.0	Bay
010-010-200-005-00		573.2	274.2	Bay
010-011-300-010-00	l	52.5	13.8	Bay

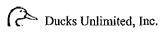


ParceIID	Landowner	Acreage of Parcel	Acreage of Unprotected Wetlands	Сочніу
010-011-300-025	-00	30.2	29.8	Bay
010-015-200-025		29.4	23.9	Bay
010-031-100-165	-00	27.9	24.9	Bay
010-031-100-180	-00	10.0	5.9	Bay
010-031-100-225		16.9	14.9	Bay
010-031-100-240		9.9	5.7	Bay
010-031-100-250		9.9	5.3	Bay
010-031-200-145	-00	15.8	8.5	Bay
010-031-200-175		11.0	8.4	Bay
010-031-200-250		11.0	5.9	Bay
010-031-200-265	-90	6.9	5.4	Bay
010-031-200-275	-00	17.0	10.0	Bay
010-032-200-005	-00	103.8	13.7	Bay
010-032-300-055		8.9	7.0	Bay
010-032-400-010		18.1	6.3	Bay
010-032-400-245		7.9	5.4	Bay
010-033-400-020	-00	20.1	12.2	Bay
030-001-100-010		24.7	7.2	Bay
030-001-100-015		22.9	0.8	Bay
030-001-100-020		20.1	6.5	Bay
030-001-200-105		52.3	14.1	Bay
030-001-300-045		11.7	8.8	Bay
030-001-400-035		45.0	5.7	Bay
030-002-400-050		172.6	12.5	Bay
030-040-100-005		40.9	6.1	Bay
030-040-100-100		19.0	15.3	Bay
030-040-300-035		16.2	5.1	Bay
030-041-100-005		53.7	17.8	Bay
030-041-100-010		19.2	8.2	Bay
030-041-200-005		96.7	18.3	Bay
030-041-300-015		56.7	16.0	Bay
030-043-100-005		58.9	5.2	Bay
030-043-300-010		15.4	6.5	Bay
030-046-200-005		290.4	5.6	Bay
040-012-200-005		38.1	20.7	Bay
040-012-200-020		38.5	35.5	Bay
040-012-200-035		0.08	9.3	Bay
040-035-200-020	-00	7.8	6.3	Bay
040-035-200-025		7.1	6.4	Bay
040-035-400-030	-01	12.6	9.1	Bay
040-035-400-060	-00	6.8	5.6	Bay
040-035-400-070	-02	11.4	9.4	Bay
040-035-400-075		10.7	8.5	Bay
040-035-400-085		10.7	8.3	Bay
040-040-100-040		48.5	9.3	Bay
040-040-300-005		20.6	13.6	Bay
040-040-300-040		11.3	5.5	Bay
040-040-300-055		9.0	6.5	Bay
070-001-100-005		870.6	65.0	Bay
070-001-200-005		236.7	86.2	Bay
070-002-200-005		73.1	5.8	Bay
070-002-200-005		54.7	6.6	Bay
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Parce <b>I</b> I D	Landowner	Acreage of Parcel	Acreage of Unprotected Wetlands	County
070-002-200-005-	30	101.9	7.1	Bay
070-011-200-005	.00	56.7	45.0	Bay
070-011-200-005	01	12.3	8.8	Bay
070-012-200-005	.00	477.8	102.1	Bay
070-013-100-020-	.00	69.8	8.9	Bay
070-040-200-020-		148,0	21.8	Bay
080-001-100-010-	03	18.6	7.9	Bay
080-001-300-010-	.00	24.3	10.1	Bay
080-013-300-030-		10.9	6.3	Bay
080-023-200-015-	00	42.0	7.0	Bay
080-023-400-015	.03	58.0	5.8	Bay
080-023-400-020-	.00	17.9	14.3	Bay
080-025-200-010-		162.1	117.5	Bay
080-036-200-040-		19.6	7.8	Bay
080-036-200-105		9.6	8.2	Bay
090-001-200-020		27.9	13.0	Bay
090-001-200-030-		34.8	31.i	Bay
090-001-400-010-		19.8	6.9	Bay
100-001-100-115-		19.4	13.3	Bay
100-001-300-005		77.7	5.4	Bay
100-002-300-070-		86.8	7.1	Bay
100-002-400-020-		45.3	10.8	Bay
100-002-400-080-		59.3	7.7	Bay
100-002-400-160-		25.9	21.3	Bay
100-003-400-070-		47.7	6.2	Bay
100-010-100-010-		52.2	9.3	Bay
100-010-200-010-		49.5	14.5	Bay
100-010-200-070-		48.1	9.3	Bay
100-010-300-020-		9.3	6.0	Bay
100-010-300-030-		55.8	28.4	Bay
100-015-100-020-		117.2	28.1	Bay
100-015-100-030-		120.1	38.4	Bay
100-015-200-120-		73.2	7.2	Bay
100-016-100-020-		57.3	6.9	Bay
100-016-200-060-		18.0	10.9	Bay
100-036-300-020-		58.2	10.7	Bay
100-038-400-380		11.1	10.3	Bay
120-025-400-010-		74.2	5.4	Bay
120-037-100-060-		41.8	14.0	Bay
120-037-300-010-		18.7	8.3	Bay
120-037-300-010-		15.2	11.2	Bay
120-038-100-035		27.8	15.4	Bay
120-038-100-050-		45.7	16.7	Bay
120-038-300-010-		39.8	28.8	Bay
120-038-300-040-		41.2	37.7	Bay
120-039-100-040-		24.3	12.7	Bay
120-039-300-010-		26.0	23.4	Bay
120-039-300-010-		8.3	5.2	Bay
120-039-300-050-		19.3	15.5	Bay
		16.6	10.9	Bay
120-041-300-010-		57.9	51.5	Bay Bay
120-041-300-060-		17.9	10.1	Bay
120-042-100-010-	·01	11.9	10.1	nah

ParceII D	Landowner	Acreage of Parcel	Acreage of Unprotected Wetlands	County
120-042-100-020-0	00	27.3	21.8	Bay
120-042-300-011-0	01	28.2	16.0	Bay
120-042-300-015-0	00	14.3	8.9	Bay
120-L05-000-044-	00	20.3	18.0	Bay
130-015-200-020-0	00	37.1	14.9	Bay
170-012-300-010-0		18.9	6.2	Bay
170-013-200-020-0	00	6.0	5.6	Bay
159106742	Henne John	8.5	6.0	Huron
159106848	Pernar Frank & Carolyn V	3.6	19.0	Huron
159107004	Seward Richard L & Connie L	1.1	6.4	Huron
159107005	Bromley Karen L & Kubacki Alicia K	9.2	18.8	Huron
159115625	Good Shepherd Luther on Church	1.5	10.4	Huron
159115647	Bieri Ronald R & Dolores A	1.7	121.7	Huron
1 591 1 5648	Bieri Lorreine H	7.0	10.7	Huron
159115649	Caseville Twp Airport Land Corp	4.7	7.6	Huzon
159115687	Cbb Properties Llc	1.5	13.4	Huron
159115688	Morgan Billy T Ii & Sharon A	3.6	33.6	Huron
159115690	Bieri Ronald R & Dolores A	3.4	9.9	Huron
159113951	Clabuesch Herny J	3.5	21.1	Huron
159116233	Beadle Jeanette E	4.2	14.1	Huron
159116665	Freem en William J	8.4	7.2	Huron
159117559	Tuckey Iris C Trustee	1.3	10.5	Huron
159118111	Vivian Edwin D	1,0	6.4	Huron
159118164	Ciesielski Ronald J	9.0	7.6	Huron
159118270	Scenic Golf & Country Club Inc	1.1	7.3	Huron
159118290	Barlow Dale & Litos Donna	2.7	6.2	Huron
159118292	Brown William	1.9	9.7	Huron
159118298	Baur Bruce A	7.9	51.5	Huron
159118299	Thede Michael J & Donna L	1.9	18.2	Huron
159118300	Leach Gregory L	1.9	5.8	Huron
159118451	Thede Michael J & Dorma L	9.3	8.5	Huron
159133839	Old Colony Farms Lc	6.7	13.i	Huron
159133840	Old Colony Farms Lc	2.4	16.5	Huron
159134530	Michigan Sugar Company	5.3	34.1	Huron
159135060	Beadle Jeanette E	2.7	12.4	Huron
159135064	Scenic Realty Company	1.3	9.1	Huron
159135085	Diebel Robert D & Kirk D	3.2	24.9	Huron
159135097	Old Colony Farms Lc	1.1	57.3	Huron
159135115	Old Colony Farms Lc	1.5	28.1	Huron
159135272	Abbott Richard H & Bornie J Trustee	1.2	6.3	Huron
159135612	Michigan Sugar Company	5.6	29.3	Huron
159135614	~ · · · · · ·	7.7	15.0	Huron
159135620	Sebewaing Township	9.1	5.3	Huron
388738671	Dnr Grants Administration Div	8.1	8.1	Saginaw
388740102	Central Foundry Tax Staff, Pt-Pont Engr(Px44)	8.5	8.5	Saginaw
388751410	Turner, Melvin E & Esther H	5,8	5.8	Saginaw
388751924	Csx Transportation Inc	5.7	5.7	Saginaw
388752482	Remediation & Liability Mgt Co Inc	5.7	5.7	Saginaw
388753390	City Of Saginaw	8.8	8.8	Saginaw
388765862	Weh-Ran Properties Llc	12.2	12.2	Saginaw
388765959	Boese, G M & S E	23.5	23.5	Saginaw
388766361	Rice, DM & VJ	5.5	5.5	Saginaw

383766583   Young Family Trust	ParcellD	Landowner	Acreage of Parcel	Acreage of Unprotected Wetlands	County
38376545   Schmidt, Paul   35.3   35.3   Saginaw   383768036   Bourdow Trucking   16.2   16.2   Saginaw   3837680375   Consumers Energy Co   13.0   13.0   33.0   Saginaw   383768075   Section I Farms, Lic   5.9   5.9   5.9   Saginaw   383768073   Section I Farms, Lic   5.9   5.9   Saginaw   383768073   Section I Farms, Lic   5.9   5.9   Saginaw   383768073   Section I Farms, Lic   5.9   5.9   Saginaw   383773734   Bourdow, D.O. & P.A.   15.7   15.7   Saginaw   383773739   Madden, T.M. & M.E.   24.3   24.3   Saginaw   383777480   Stevene Family Farm, Lic   7.7   7.7   Saginaw   3837800078   Stevene Family Farm, Lic   7.7   7.7   Saginaw   3837800078   Stevene Family Farm, Lic   7.7   7.7   Saginaw   383780078   Crocked Creek Investment Co   6.0   6.0   Saginaw   3837830078   Stevene Family Farm, Lic   7.4   7.	388766583	Young Family Trust	21.8	21.8	Saginaw
388768036         Bourdow Trucking         16.2         16.2         Saginaw           388768573         Consumers Energy Co         13.0         13.0         Saginaw           3887685673         Section 12 Fams, L1c         5.9         5.9         Saginaw           38876837         Section 12 Fams, L1c         5.9         5.9         Saginaw           38876873         Kimberley Oaks Land Co L1c         8.9         8.9         Saginaw           38877732384         Bourdow, D G & P A         15.7         15.7         Saginaw           3887773400         Stevens Family Fam, L1c         7.7         7.7         7.7         Saginaw           388780001         Wenzel, J E & S H         13.3         13.3         Saginaw           3887823241         Soc Of Miss Sisters         8.2         8.2         8.2         Saginaw           388783235         Kretz, J & T         15.0         15.0         Saginaw           388783236         Zilwaukee Townstip         12.3         12.3         12.3         Saginaw           388783336         Zilwaukee Townstip         12.3         12.3         Saginaw           388783337         Gos Challey Fee Fattrust         27.0         27.0         Saginaw	388766868	Wendland, A.R. Etal	35.7	35.7	_
388768575 Censumers Energy Co 13.0 13.0 Saginaw 388768573 Section 12 Farms, Lic 15.9 5.9 5.9 Saginaw 388768573 Kimberley Oake Land Co Lic 8.9 8.9 8.9 Saginaw 388768573 Kimberley Oake Land Co Lic 8.9 8.9 8.9 Saginaw 388773739 Madden, T. M. & M. E 24.3 24.3 Saginaw 388777359 Madden, T. M. & M. E 24.3 24.3 Saginaw 388777359 Madden, T. M. & M. E 24.3 24.3 Saginaw 388777350 Stevens Family Farm, Lic 7.7 7.7 7.7 Saginaw 3887870078 Stevens Family Farm, Lic 7.7 7.7 Saginaw 388780078 Crooked Creek Investment Co 6.0 6.0 6.0 Saginaw 3887832073 Kaufmann, Leonard & 74.7 74.7 Saginaw 388783235 Kretz, J. & T 15.0 15.0 Saginaw 388783235 Kretz, J. & T 15.0 15.0 Saginaw 388783331 Benkert, Bergetta Trust 27.0 27.0 Saginaw 388783331 Benkert, Bergetta Trust 27.0 27.0 Saginaw 388783341 Hamlin M. & C Etal 383783079 Cuchman, J. & N 7.5 7.5 Saginaw 383783079 Cuchman, J. & N 7.5 7.5 Saginaw 383783841 Schomaker, R.J. & G F Trust 7.4 7.4 Saginaw 383783830 Obs. William F. & Many A 383783840 Schomaker, R.J. & G F Trust 7.4 7.4 Saginaw 383783880 Darling, R.P. & K.A 15.3 15.3 Saginaw 383783819 Kaper, J. & CM 3837837911 Kluck, Thomas & Karen 13.8 13.8 Saginaw 38379014 Kluck, Thomas & Karen 13.8 13.8 Saginaw 38379015 Cosen, William F. & Many A 38379016 Cosen, C.D. & K 38379017 Directory 38379024 Mobit State Highway Dept 383879024 Benkert, L. M 10.8 10.8 10.3 Saginaw 38379034 Benkert, L. M 10.8 10.8 10.3 Saginaw 38379034 Benkert, L. M 10.8 10.8 Saginaw 38379034 Benkert, L. M 10.8 10.8 Saginaw 38379034 Benkert, R. P. & M. M 10.8 10.3 Saginaw 38379034 Benkert, R. P. & M. M 10.8 10.3 Saginaw 38379034 Benkert, R. D. & M.F 13.7 13.7 Saginaw 38379034 Benkert, R. D. & M.F 13.9 Saginaw 38379034 Benkert, R. D. & M.F 13.9 Saginaw 38379039 DN G Grant Administration Div 30.9 Saginaw 38379034 Benkert, R. D. & W.F 13.9 13.9 Saginaw 38379034 Benkert, R. D. & W.F 13.9 13.9 Saginaw 38379039 Benkert, R. D. & W.F 13.9 13.9 Saginaw 38379039 Benkert, R. D. & W.F 13.9 Saginaw 38379039 Benkert, R. D. & W.F 13.9 Saginaw 38379040 Sagak P. & Stallings B 38379040 Sagak P.	388767654	Schmidt, Paul	35. <b>3</b>	35.3	Saginaw
388768645         Kulhanek, Lucille Etal         12.0         12.0         Seginaw           388768673         Section 12 Farms, Lic         59         59         59         Saginaw           388768737         Kimberley Oake Land Co Lic         8.9         8.9         Seginaw           388773384         Bourdow, D G & P A         15.7         15.7         Seginaw           3887774980         Slevens F amily Farm, Llc         7.7         7.7         Seginaw           388780001         Wenzel, J E & S H         13.3         13.3         Saginaw           388780078         Crooked Creek Investment Co         6.0         6.0         Seginaw           3887823241         Soc Of Miss Sisters         8.2         8.2         Seginaw           388783235         Kretz, J & T         15.0         15.0         Seginaw           388783235         Kretz, J & T         15.0         15.0         Seginaw           388783336         Zilwauke Township         12.3         12.3         Seginaw           388783341         Hamlin M & C Etal         83.3         83.3         Seginaw           388782062         Crooked Creek Investment Co         11.1         11.1         11.1         13.1         Seginaw	388768036	Bourdow Trucking	16.2	16.2	Saginaw
388768645         Kulhanek, Lucille Etal         12.0         12.0         Seginaw           388768737         Soction 12 Farms, Llc         5.9         5.9         3.9         Saginaw           388768737         Kimberley Oake Land Co Llc         8.9         3.9         Saginaw           388773384         Bourdow, D.G. & P.A         15.7         15.7         Seginaw           388779480         Slevene Family Farm, Llc         7.7         7.7         Seginaw           388780001         Wenzel, J.E.&.S.H         13.3         13.3         Seginaw           388780078         Crooked Creek Investment Co         6.0         6.0         Seginaw           3887823241         Soc Of Miss Sisters         8.2         8.2         Seginaw           388783233         Kertz, J. & T         15.0         15.0         Seginaw           388783233         Kertz, J. & T         15.0         15.0         Seginaw           388783331         Benkert, Bergette Trust         27.0         27.0         37.0         Seginaw           3887833321         Crooked Creek Investment Co         11.1         11.1         11.1         11.1         11.1         13.3         Seginaw           3887833341         Hamilian M. & C Etal	388768575	Consumers Energy Co	13.0	13.0	Saginaw
38876873         Setion 12 Fams & Lic         59         59         Seginaw           388768737         Kimberley Oaks Land Co Lic         8.9         8.9         3.9         Saginaw           388773384         Bourdow, D G & P A         115.7         115.7         Seginaw           3887774384         Bourdow, D G & P A         115.7         17.7         7.7         Seginaw           388779430         Stevens F anily Fam, Lic         7.7         7.7         Seginaw           388780001         Wenzel, J E & S H         13.3         13.3         Seginaw           388780078         Crooked Creek Investment Co         60         60         Seginaw           388782314         Soc Of Miss Sisters         8.2         8.2         Seginaw           388783325         Kretz, J & T         15.0         15.0         Seginaw           388783331         Benkert, Bergette Trust         27.0         27.0         Seginaw           3887833231         Hamlin M & C Btall         33.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3         83.3 <t< td=""><td>388768645</td><td>Kulhanek, Lucille Etal</td><td>12.0</td><td>12.0</td><td></td></t<>	388768645	Kulhanek, Lucille Etal	12.0	12.0	
3887732384         Bourdow, D G & P A         15.7         15.7         Saginaw           3887775390         Madden, T M & M E         24.3         328jnaw           388778480         Stevens Famity Farm, Llc         7.7         7.7         Saginaw           388780001         Wenzel, J E & S H         13.3         13.3         Saginaw           388780078         Crooked Creek Investment Co         6.0         6.0         5.0         Saginaw           388782373         Koufmann, Leonard &         74.7         74.7         Saginaw           388783336         Kirbet, J & T         15.0         15.0         Saginaw           388783337         Kretz, J & T         15.0         15.0         Saginaw           3887833381         Berkert, Bergetta Trust         27.0         27.0         Saginaw           388783392         Crooked Creek Investment Co         11.1         11.1         11.1         Saginaw           388783337         Osen, William F & Mary A         43.7         43.7         Saginaw           388788339         Crooked Creek Investment Co         11.1         11.1         11.1         Saginaw           388788319         Crooked Creek Investment Co         11.1         11.1         Saginaw <td>388768673</td> <td>Section 12 Farms, L1c</td> <td>5.9</td> <td>5.9</td> <td>_</td>	388768673	Section 12 Farms, L1c	5.9	5.9	_
38877339         Madden, T M & M E         243         243         Saginaw           388779480         Stevens Family Farm, Llc         7.7         7.7         3.2         Saginaw           388780001         Wenzel, J E & S H         13.3         31.3         Saginaw           388782078         Crooked Creek Investment Co         6.0         6.0         Saginaw           388782341         Soc Of Miss Sisters         8.2         8.2         Saginaw           388782334         Kaufmann, Leonard &         74.7         74.7         Saginaw           38878335         Kretz, J & T         15.0         15.0         Saginaw           38878336         Zihrweikee Township         12.3         12.3         Saginaw           388783381         Benkert, Bergetta Trust         27.0         27.0         Saginaw           3887837907         Crooked Creek Investment Co         11.1         11.1         11.1         Saginaw           388783819         Crooked Creek Investment Co         11.1         11.1         Saginaw           388783819         Crooked Creek Investment Co         11.1         11.1         Saginaw           388783820         Coonaker, R I & G F Trust         7.4         7.4         Saginaw	388768737	Kimberley Oaks Land Co Llc	8.9	8.9	Saginaw
3887717339         Madden, T M & M E         243         243         Seginaw           388779480         Stevens Family Farm, Llc         7.7         7.7         Saginaw           3887800078         Crooked Creek Investment Co         60         60         82         82         82         Saginaw           388782341         Soc Of Miss Sisters         82         82         82         Saginaw           388782323         Kretz, J & T         150         150         Saginaw           388783331         Benkert, Bergetta Trust         27.0         27.0         Saginaw           388783321         Hamlin M & C Btal         83         33         33         Saginaw           388783371         Crooked Creek Investment Co         11.1         11.1         Saginaw           388783707         Cushman, J & N         7.5         7.5         Saginaw           388783819         Kaper, J S & C M         43.7         43.7         43.7         Saginaw           388783829         Cohenaker, R I & G F Trust         7.4         7.4         Saginaw           388783820         Darling R P & K A         15.3         15.3         Saginaw           388790131         Kluck, Thomase & Karen         15.4         <	388772384	Bourdow, DG & PA	15.7	15.7	Saginaw
388779480         Stevens Family Farm, L1c         7.7         7.7         Saginaw           388780001         Wenzel, J. E. & S. H         13.3         13.3         Saginaw           388780078         Crooked Creek Investment Co         6.0         6.0         Saginaw           388782973         Kaufmann, Leonard &         74.7         74.7         Saginaw           388782935         Kretz, J. & T         15.0         15.0         Saginaw           388783831         Benkert, Bergetta Trust         27.0         27.0         Saginaw           388783831         Benkert, Bergetta Trust         27.0         27.0         Saginaw           388783841         Hamlin M. & C. Etal         33.3         Saginaw           388783837         Crooked Creek Investment Co         11.1         11.1         Saginaw           388788337         Cosen, William F. & Mary A         43.7         43.7         Saginaw           388788319         Kaccer, J. & G. F. Trust         7.4         7.4         Saginaw           388788319         Kaccer, J. & G. F. Trust         7.4         7.4         Saginaw           38878819         Kaccer, J. & G. F. Trust         7.4         7.4         Saginaw           388788219         Kaccer,	388777539	Madden, T M & M E	24.3	24.3	
388780001         Wenzet, J E & S H         133         133         Saginaw           388780078         Crooked Creek Investment Co         6.0         6.0         5.2         Saginaw           3887823241         Soc Of Miss Sisters         8.2         8.2         Saginaw           388782325         Kretz, J & T         15.0         15.0         Saginaw           388783323         Berkert, Bergetta Trust         27.0         27.0         Saginaw           388783311         Berkert, Bergetta Trust         27.0         27.0         Saginaw           38878341         Hamlin M & C Etal         333         333         Saginaw           388783707         Crooked Creek Investment Co         11.1         11.1         Saginaw           388783707         Cushman J & N         7.5         7.5         Saginaw           388783810         Koncaker, R J & G F Trust         7.4         7.4         7.4         Saginaw           388783819         Kasper, J & & C M         16.5         16.5         Saginaw           388783819         Kasper, J & & C M         16.5         16.5         Saginaw           388790131         Kluck, Thomas & Karen         13.8         13.3         Saginaw           388790	388779480		7.7	7.7	
388782341         Soc Of Miss Sisters         8.2         8.2         Saginaw           388782973         Kaufmann, Leonard &         74.7         74.7         Saginaw           388783235         Kretz, J & T         15.0         15.0         Saginaw           388783336         Zilwaukee Township         12.3         12.3         Saginaw           388783331         Berkert, Bergetta Trust         27.0         27.0         Saginaw           38878341         Hamlin M & C Etal         83.3         33.3         Saginaw           388785078         Crooked Creek Investment Co         11.1         11.1         Saginaw           388788797         Cushman, J & N         7.5         7.5         Saginaw           388788797         Cosen, William F & Mary A         43.7         43.7         Saginaw           388788819         Kasper, J S & C M         16.5         16.5         Saginaw           3887890131         Kluck, Thomas & Karen         15.3         15.3         Saginaw           388790131         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790163         Kluck, Thomas & Karen         13.8         Saginaw           388791773         Dgf & M Associates         52<	388780001	Wenzel, J E & S H	13.3	13.3	_
383782341   Soc Of Miss Sisters	388780078	Crooked Creek Investment Co	6.0	6.0	Saginaw
388783235         Kretz, J & T         15.0         15.0         Saginaw           388783386         Zilwaukee Township         12.3         12.3         Saginaw           388783841         Hamlin M & C Etal         83.3         83.3         Saginaw           3887839078         Crooked Creek Investment Co         11.1         11.1         Saginaw           3887839079         Cushman, J & N         7.5         7.5         Saginaw           388788337         Gosen, William F & Mary A         43.7         43.7         Saginaw           388788397         Cushman, J & N         7.4         7.4         7.4         Saginaw           388788319         Kasper, J S & C M         16.5         16.5         Saginaw           38878819         Kasper, J S & C M         16.5         16.5         Saginaw           388790131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790136         Gosen, C D & K         10.5         10.5         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388791773         Def & M Associates         5.2         5.2         Saginaw           388792219         Gross D R & J L <td>388782341</td> <td>Soc Of Miss Sisters</td> <td>8.2</td> <td>8.2</td> <td>_</td>	388782341	Soc Of Miss Sisters	8.2	8.2	_
388783235         Kretz, J & T         15.0         15.0         Saginaw           388783386         Zilwaukee Township         12.3         12.3         Saginaw           388783831         Benkett, Bergetta Trust         27.0         27.0         Saginaw           388783941         Hamlin M & C Etal         33.3         83.3         Saginaw           388783078         Crooked Creek Investment Co         11.1         11.1         Saginaw           388788337         Gozen, William F & Mary A         43.7         43.7         Saginaw           388788337         Gozen, William F & Mary A         43.7         43.7         Saginaw           388788319         Kasper, J S & C M         16.5         16.5         Saginaw           38878819         Kasper, J S & C M         16.5         16.5         Saginaw           388790131         Kluck, Thomas & Karen         53         53         Saginaw           388790136         Gosen, C D & K         10.5         10.5         Saginaw           388790136         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790177         Dgf & M Associates         5.2         5.2         5.2         Saginaw           388792179 <t< td=""><td>388782973</td><td>Kaufmann, Leonard &amp;</td><td>74.7</td><td></td><td>_</td></t<>	388782973	Kaufmann, Leonard &	74.7		_
388783586         Zilwaukee Township         12.3         12.3         Saginaw           388783331         Berkert, Bergette Trust         27.0         27.0         Saginaw           388783341         Hamlin M & C Etal         33.3         33.3         Saginaw           388783078         Crooked Creek Investment Co         11.1         11.1         11.1         Saginaw           388788379         Cushman, J & N         7.5         7.5         Saginaw           388788337         Gosen, William F & Mary A         43.7         43.7         Saginaw           388788319         Kasper, J & C M         16.5         16.5         Saginaw           38878820         Darling R P & K A         15.3         15.3         Saginaw           388790131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790136         Gosen, C D & K         10.5         10.5         Saginaw           388790136         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790137         Def & M Associates         5.2         5.2         Saginaw           388792131         Schmidt, P H & M M         6.2         6.2         Saginaw           388792211         Schmid	388783235		15.0	15.0	
388783831         Benkert, Bergetta Trust         27.0         27.0         Saginaw           388783841         Hamlin M& C Etal         83.3         83.3         Saginaw           388785078         Crooked Creek Investment Co         11.1         11.1         Saginaw           3887887097         Cushman, J & N         7.5         7.5         Saginaw           3887888337         Gosen, William F & Mary A         43.7         43.7         Saginaw           388788444         Schomaker, R J & G F Trust         7.4         7.4         7.4         Saginaw           38878819         Kapper, J S & C M         16.5         16.5         Saginaw           388790131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790173         Dgf & M Associates         5.2         5.2         Saginaw           388792191         Og S M Associates         5.2         5.2         Saginaw           38879221         Schmidt, P H & M M         6.2         6.2         Saginaw           38879221         Gross D R & J L         21.5         21.5         Saginaw           38879221         Be	388783586	Zilwaukee Township			•
388783841         Hamlin M & C Etal         83.3         83.3         Saginaw           388783078         Crooked Creek Investment Co         11.1         11.1         Saginaw           388787087         Cushman, J & N         7.5         7.5         Saginaw           388788337         Gosen, William F & Mary A         43.7         43.7         Saginaw           3887883837         Gosen, William F & Mary A         43.7         43.7         Saginaw           38878844         Schomaker, R J & G F Trust         7.4         7.4         Saginaw           38878819         Kasper, J S & C M         16.5         Saginaw           38878820         Darling R P & K A         15.3         15.3         Saginaw           388790131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790173         Dgf & M Associates         5.2         5.2         Saginaw           388792731         Schmidt, P H & M M         6.2         6.2         Saginaw           388792919         Grose D R & J L         21.5         21.5         Saginaw           388793219         Grose D R & J L         21.5 <td></td> <td><del>-</del></td> <td></td> <td></td> <td></td>		<del>-</del>			
388785078         Crooked Creek Investment Co         11.1         11.1         Saginaw           388787097         Cushman, J. & N         7.5         7.5         Saginaw           388788337         Gosen, William F. & Mary A         43.7         43.7         Saginaw           388788381         Schomaker, R. J. & O. F. Trust         7.4         7.4         Saginaw           388788819         Kasper, J. S. & C. M         16.5         16.5         Saginaw           388790131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790136         Gosen, C. D. & K         10.5         10.5         Saginaw           388790131         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790136         Gosen, C. D. & K         10.5         10.5         Saginaw           388790131         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790131         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388791731         Schmidt, P. M. M.         6.2         6.2         Saginaw           388792731         Schmidt, P. H. & M. M.         6.2         6.2         Saginaw           388792912         Gros					
388787097         Cushman, J & N         7.5         7.5         Saginaw           388788337         Gosen, William F & Mary A         43.7         43.7         Saginaw           388788444         Schomaker, R J & G F Trust         7.4         7.4         Saginaw           388788819         Kasper, J S & C M         16.5         16.5         Saginaw           388780131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790136         Gosen, C D & K         10.5         10.5         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           38879173         Dgf & M Associates         5.2         5.2         Saginaw           38879173         Dgf & M Associates         5.2         5.2         Saginaw           38879219         Orross D R & J L         21.5         Saginaw           38879219         Orross D R & J L         21.5         Saginaw           388792193         DNR Grants Administration Div         8.0         8.0         Saginaw           388792194         Benkert, L M         10.8         10.8         Saginaw           388794007         Sapak P & Stallings B         12.6         12.6         <		Crooked Creek Investment Co		11.1	
388788337         Gosen, William F & Mary A         43.7         43.7         Saginaw           3887882644         Schomaker, R J & G F Trust         7.4         7.4         Saginaw           388788819         Kasper, J S & C M         16.5         16.5         Saginaw           38878820         Darling R P & K A         15.3         15.3         Saginaw           388790131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790163         Gosen, C D & K         10.5         10.5         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         3.8         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           38879173         Dgf & M Associates         5.2         5.2         Saginaw           38879173         Dgf & M Associates         5.2         5.2         Saginaw           38879219         Oross D R & J L         21.5         21.5         Saginaw           38879211         Ben	388787097	Cushman, J & N			_
388788644         Schomaker, R J & G F Trust         7.4         7.4         Saginaw           388788819         Kasper, J S & C M         16.5         16.5         Saginaw           38878820         Darling, R P & K A         15.3         15.3         Saginaw           388790131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790136         Gosen, C D & K         10.5         10.5         Saginaw           388790136         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790173         Doff & M Associates         5.2         5.2         Saginaw           388791731         Schmidt, P H & M M         6.2         6.2         Saginaw           38879219         Gross D R & J L         21.5         21.5         Saginaw           388792193         DNR Grants Administration Div         8.0         8.0         Saginaw           388793127         Berkert, Bergetta Trust         28.8         28.8         Saginaw           388793941         Berkert, Bergetta Trust         28.8         28.8         Saginaw           388794192         Saginaw County					_
388788819         Kasper, J S & C M         16.5         16.5         Saginaw           388788820         Darling R P & K A         15.3         15.3         Saginaw           388790131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790136         Gosen, C D & K         10.5         10.5         Saginaw           388790163         Kluck, Thomas & Karen         113.8         113.8         Saginaw           388790824         Mdot State Highway Dept         85.4         85.4         Saginaw           388791773         Doff & M Associates         5.2         5.2         Saginaw           388792731         Schmidt, P H & M M         6.2         6.2         Saginaw           388792731         Schmidt, P H & M M         6.2         6.2         Saginaw           388792731         Schmidt, P H & M M         6.2         6.2         Saginaw           388792731         Schmidt, P H & M M         6.2         1.5         Saginaw           388792923         DNR Grants Administration Div         8.0         8.0         Saginaw           388792924         Benkert, L M         10.8         10.8         Saginaw           3887934007         Sapak P & Stallings B		• • • • • • • • • • • • • • • • • • •			
388788820         Darling R P & K A         15.3         15.3         Saginaw           388790131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790136         Gosen, C D & K         10.5         10.5         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           38879024         Mdot State Highway Dept         85.4         85.4         Saginaw           388791773         Dgf & M Associates         5.2         5.2         Saginaw           388792731         Schmidt, P H & M M         6.2         6.2         Saginaw           388792993         DNR Grants Administration Div         8.0         8.0         Saginaw           388792994         Benkert, L M         10.8         10.8         Saginaw           388792901         Benkert, R D & Stallings B         12.6         12.6         Saginaw           388794020					_
388790131         Kluck, Thomas & Karen         5.3         5.3         Saginaw           388790136         Gosen, C D & K         10.5         10.5         Saginaw           388790136         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790824         Mdot State Highway Dept         85.4         85.4         S5.4         Saginaw           38879173         Dgf & M Associates         5.2         5.2         Saginaw           388792731         Schmidt, P H & M M         6.2         6.2         Saginaw           388792819         Gross D R & J L         21.5         21.5         Saginaw           38879293         DNR Grants Administration Div         8.0         8.0         Saginaw           38879293127         Benkert, L M         10.8         10.8         10.8         Saginaw           388793127         Benkert, B ergetta Trust         28.8         28.8         Saginaw           388794007         Sapak P & Stallings B         12.6         12.6         Saginaw           388794192         Saginaw County Road Commission         26.1         26.1         Saginaw           388795234         Benkert, R A & M Etal         3.8         3.8         Saginaw		•			_
388790136         Gosen, C D & K         10.5         10.5         Saginaw           388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790824         Mdot State Highway Dept         85.4         85.4         Saginaw           388791773         Dgf & M Associates         5.2         5.2         5.2         Saginaw           388792731         Schmidt, P H & M M         6.2         6.2         Saginaw           388792819         Gross D R & J L         21.5         21.5         Saginaw           388792993         DNR Grants Administration Div         8.0         8.0         Saginaw           388793127         Benkert, L M         10.8         10.8         Saginaw           388793941         Benkert, Bergetta Trust         28.8         28.8         Saginaw           388794007         Sapak P & Stallings B         12.6         12.6         Saginaw           388794192         Saginaw County Road Commission         26.1         26.1         Saginaw           388795234         Benkert, R A & M Etal         8.8         8.8         Saginaw           388795761         Walker, R D & W F         13.7         13.7         Saginaw           388796379		<del></del>			_
388790163         Kluck, Thomas & Karen         13.8         13.8         Saginaw           388790824         Mdot State Highway Dept         85.4         85.4         Saginaw           388791773         Dgf & M Associates         5.2         5.2         Saginaw           388792731         Schmidt, P H & M M         6.2         6.2         6.2         Saginaw           388792819         Gross D R & J L         21.5         21.5         Saginaw           388792993         DNR Grants Administration Div         8.0         8.0         Saginaw           388793127         Benkert, L M         10.8         10.8         10.8         Saginaw           388793941         Benkert, Bergetta Trust         28.8         28.8         Saginaw           388794007         Sapak P & Stallings B         12.6         12.6         Saginaw           388794192         Saginaw County Road Commission         26.1         26.1         Saginaw           388794400         Sapak P & Stallings B         10.2         10.2         Saginaw           388795234         Benkert, R A & M Etal         8.8         8.8         Saginaw           388795761         Walker, R D & W F         13.7         13.7         Saginaw					
388790824         Mdot State Highway Dept         85.4         85.4         Saginaw           388791773         Dgf & M Associates         5.2         5.2         Saginaw           388792731         Schmidt, P H & M M         6.2         6.2         Saginaw           388792819         Gross D R & J L         21.5         21.5         Saginaw           388792993         DNR Grants Administration Div         8.0         8.0         Saginaw           388793127         Benkert, L M         10.8         10.8         10.8         Saginaw           38879341         Benkert, Bergetta Trust         28.8         28.8         Saginaw           388794007         Sapak P & Stallings B         12.6         12.6         Saginaw           388794192         Saginaw County Road Commission         26.1         26.1         Saginaw           388794040         Sapak P & Stallings B         10.2         10.2         Saginaw           388795234         Benkert, R A & M Etal         8.8         8.8         Saginaw           388795761         Walker, R D & W F         13.7         13.7         Saginaw           388796790         Bridgeport Charter Township         195.3         195.3         Saginaw           3887					
388791773         Dgf & M Associates         5.2         5.2         Saginaw           388792731         Schmidt, P H & M M         6.2         6.2         Saginaw           388792819         Gross D R & J L         21.5         21.5         Saginaw           388792993         DNR Grants Administration Div         8.0         8.0         Saginaw           388793127         Benkert, L M         10.8         10.8         10.8         Saginaw           388793941         Benkert, B ergetta Trust         28.8         28.8         Saginaw           388794007         Sapak P & Stallings B         12.6         12.6         Saginaw           388794192         Saginaw County Road Commission         26.1         26.1         Saginaw           38879429         Sapak P & Stallings B         10.2         10.2         Saginaw           388795234         Benkert, R A & M Etal         8.8         8.8         Saginaw           388795761         Walker, R D & W F         13.7         13.7         Saginaw           388796379         Walker, R D & W F         13.9         13.9         Saginaw           388798402         Bridgeport Charter Township         195.3         195.3         Saginaw           388798412		•			_
388792731         Schmidt, P H & M M         6.2         6.2         Saginaw           388792819         Gross D R & J L         21.5         21.5         Saginaw           388792993         DNR Grants Administration Div         8.0         8.0         Saginaw           388793127         Benkert, L M         10.8         10.8         Saginaw           38879401         Benkert, Bergetta Trust         28.8         28.8         Saginaw           388794007         Sapak P & Stallings B         12.6         12.6         Saginaw           388794192         Saginaw County Road Commission         26.1         26.1         Saginaw           388794640         Sapak P & Stallings B         10.2         10.2         Saginaw           388795234         Benkert, R A & M Etal         8.8         8.8         Saginaw           388795761         Walker, R D & W F         13.7         13.7         Saginaw           388796379         Walker, R D & W F         13.9         13.9         Saginaw           388796400         Bridgeport Charter Township         195.3         195.3         Saginaw           388798403         Hunter, Ronald         36.9         36.9         Saginaw           388798412         Davis,					_
388792819       Gross D R & J L       21.5       21.5       Saginaw         388792993       DNR Grants Administration Div       8.0       8.0       Saginaw         388793127       Benkert, L M       10.8       10.8       Saginaw         388793941       Benkert, Bergetta Trust       28.8       28.8       28.8       Saginaw         388794007       Sapak P & Stallings B       12.6       12.6       Saginaw         388794192       Saginaw County Road Commission       26.1       26.1       Saginaw         388794640       Sapak P & Stallings B       10.2       10.2       Saginaw         388795234       Benkert, R A & M Etal       8.8       8.8       Saginaw         388795761       Walker, R D & W F       13.7       13.7       Saginaw         388795796       Sapak P & Stallings B       8.8       8.8       Saginaw         388796379       Walker, R D & W F       13.9       13.9       Saginaw         388798403       Hunter, Ronald       36.9       36.9       Saginaw         388798412       Davis, Eileen M       13.4       13.4       Saginaw         388799128       Powertrain R 51300 Fm200       13.1       13.1       13.1       Saginaw <td></td> <td><del>-</del></td> <td></td> <td></td> <td>_</td>		<del>-</del>			_
388792993         DNR Grants Administration Div         8.0         8.0         Saginaw           388793127         Benkert, L M         10.8         10.8         Saginaw           388793941         Benkert, Bergetta Trust         28.8         28.8         Saginaw           388794007         Sapak P & Stallings B         12.6         12.6         Saginaw           388794192         Saginaw County Road Commission         26.1         26.1         Saginaw           388794640         Sapak P & Stallings B         10.2         10.2         Saginaw           388795234         Benkert, R A & M Etal         8.8         8.8         Saginaw           388795761         Walker, R D & W F         13.7         13.7         Saginaw           388795796         Sapak P & Stallings B         8.8         8.8         Saginaw           388796379         Walker, R D & W F         13.9         13.9         Saginaw           388796790         Bridgeport Charter Township         195.3         195.3         Saginaw           388798403         Hunter, Ronald         36.9         36.9         Saginaw           388798412         Davis, Eileen M         13.4         13.4         Saginaw           388799128         Pow					
388793127       Benkert, L M       10.8       10.8       Saginaw         388793941       Benkert, Bergetta Trust       28.8       28.8       Saginaw         388794007       Sapak P & Stallings B       12.6       12.6       Saginaw         388794192       Saginaw County Road Commission       26.1       26.1       Saginaw         388794640       Sapak P & Stallings B       10.2       10.2       Saginaw         388795234       Benkert, R A & M Etal       8.8       8.8       Saginaw         388795761       Walker, R D & W F       13.7       13.7       Saginaw         388795796       Sapak P & Stallings B       8.8       8.8       Saginaw         388796379       Walker, R D & W F       13.9       13.9       Saginaw         388796400       Bridgeport Charter Township       195.3       195.3       Saginaw         388798403       Hunter, Ronald       36.9       36.9       Saginaw         388798412       Davis, Eileen M       13.4       13.4       13.4       Saginaw         388799954       Langschwager, H R & M M Etal       69.6       69.6       Saginaw         38879928       Vandriessche, Gene R Etal       10.0       10.0       Saginaw					
388793941       Berkett, Bergetta Trust       28.8       28.8       Saginaw         388794007       Sapak P & Stallings B       12.6       12.6       Saginaw         388794192       Saginaw County Road Commission       26.1       26.1       Saginaw         388794640       Sapak P & Stallings B       10.2       10.2       Saginaw         388795234       Benkert, R A & M Etal       8.8       8.8       Saginaw         388795761       Walker, R D & W F       13.7       13.7       Saginaw         388795796       Sapak P & Stallings B       8.8       8.8       Saginaw         388796379       Walker, R D & W F       13.9       13.9       Saginaw         388796400       Bridgeport Charter Township       195.3       195.3       Saginaw         388798403       Hunter, Ronald       36.9       36.9       Saginaw         388798412       Davis, Eileen M       13.4       13.4       Saginaw         388798954       Langschwager, H R & M M Etal       69.6       69.6       Saginaw         388799128       Powertrain R 51300 Fm200       13.1       13.1       13.1       Saginaw         388799492       Powertrain R 51300 Fm200       11.4       11.4       11.4					
388794007       Sapak P & Stallings B       12.6       12.6       Saginaw         388794192       Saginaw County Road Commission       26.1       26.1       Saginaw         388794640       Sapak P & Stallings B       10.2       10.2       Saginaw         388795234       Benkert, R A & M Etal       8.8       8.8       Saginaw         388795761       Walker, R D & W F       13.7       13.7       Saginaw         388795796       Sapak P & Stallings B       8.8       8.8       Saginaw         388796379       Walker, R D & W F       13.9       13.9       Saginaw         388796790       Bridgeport Charter Township       195.3       195.3       Saginaw         388798403       Hunter, Ronald       36.9       36.9       Saginaw         388798412       Davis, Eileen M       13.4       13.4       13.4       Saginaw         388798954       Langschwager, H R & M M Etal       69.6       69.6       Saginaw         388799128       Powertrain R 51300 Fm200       13.1       13.1       13.1       Saginaw         388799492       Powertrain R 51300 Fm200       11.4       11.4       11.4       Saginaw         388800217       Woolcock, Mary E Trust       28.1					
388794192       Saginaw County Road Commission       26.1       26.1       Saginaw         388794640       Sapak P & Stallings B       10.2       10.2       Saginaw         388795234       Benkert, R A & M Etal       8.8       8.8       Saginaw         388795761       Walker, R D & W F       13.7       13.7       Saginaw         388795796       Sapak P & Stallings B       8.8       8.8       Saginaw         388796379       Walker, R D & W F       13.9       13.9       Saginaw         388796790       Bridgeport Charter Township       195.3       195.3       Saginaw         388798403       Hunter, Ronald       36.9       36.9       Saginaw         388798412       Davis, Eileen M       13.4       13.4       13.4       Saginaw         388798954       Langschwager, H R & M M Etal       69.6       69.6       Saginaw         388799128       Powertrain R 51300 Fm200       13.1       13.1       13.1       Saginaw         388799402       Powertrain R 51300 Fm200       11.4       11.4       11.4       Saginaw         388800217       Woolcock, Mary E Trust       28.1       28.1       Saginaw         388800264       Mdot State Highway Dept       18.1					-
388794640       Sapak P & Stallings B       10.2       10.2       Saginaw         388795234       Benkert, R A & M Etal       8.8       8.8       Saginaw         388795761       Walker, R D & W F       13.7       13.7       Saginaw         388795796       Sapak P & Stallings B       8.8       8.8       Saginaw         388796379       Walker, R D & W F       13.9       13.9       Saginaw         388796790       Bridgeport Charter Township       195.3       195.3       Saginaw         388798403       Hunter, Ronald       36.9       36.9       Saginaw         388798412       Davis, Eileen M       13.4       13.4       Saginaw         388798954       Langschwager, H R & M M Etal       69.6       69.6       Saginaw         388799128       Powertrain R 51300 Fm200       13.1       13.1       Saginaw         388799268       Vandriessche, G ene R Etal       10.0       10.0       Saginaw         388800217       Woolcock, Mary E Trust       28.1       28.1       28.1       Saginaw         388800264       Mdot State Highway Dept       18.1       18.1       18.1       Saginaw					<del>-</del> .
388795234       Benkert, R A & M Etal       8.8       8.8       Saginaw         388795761       Walker, R D & W F       13.7       13.7       Saginaw         388795796       Sapak P & Stallings B       8.8       8.8       Saginaw         388796379       Walker, R D & W F       13.9       13.9       Saginaw         388796790       Bridgeport Charter Township       195.3       195.3       Saginaw         388798403       Hunter, Ronald       36.9       36.9       Saginaw         388798412       Davis, Eileen M       13.4       13.4       Saginaw         388798954       Langschwager, H R & M M Etal       69.6       69.6       Saginaw         388799128       Powertrain R 51300 Fm200       13.1       13.1       Saginaw         388799268       Vandriessche, Gene R Etal       10.0       10.0       Saginaw         388799492       Powertrain R 51300 Fm200       11.4       11.4       13.4       Saginaw         388800217       Woolcock, Mary E Trust       28.1       28.1       Saginaw         388800264       Mdot State Highway Dept       18.1       18.1       Saginaw					
388795761       Walker, R D & W F       13.7       13.7       Saginaw         388795796       Sapak P & Stallings B       8.8       8.8       Saginaw         388796379       Walker, R D & W F       13.9       13.9       Saginaw         388796790       Bridgeport Charter Township       195.3       195.3       Saginaw         388798403       Hunter, Ronald       36.9       36.9       Saginaw         388798412       Davis, Eileen M       13.4       13.4       Saginaw         388798954       Langschwager, H R & M M Etal       69.6       69.6       Saginaw         388799128       Powertrain R 51300 Fm200       13.1       13.1       Saginaw         388799268       Vandriessche, Gene R Etal       10.0       10.0       Saginaw         388799492       Powertrain R 51300 Fm200       11.4       11.4       Saginaw         388800217       Woolcock, Mary E Trust       28.1       28.1       Saginaw         388800264       Mdot State Highway Dept       18.1       18.1       Saginaw					
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Parcell D	Landowner	Acreage of Parvel	Acreage of Unprotected Wetlands	County
388801271	Fort Cass Farms Llc	37.9	37.9	Saginaw
388801467	Bridgeport Charter Township	5.0	5.0	Saginaw
388802149	Kunitser Family Realty Lic	17.7	17.7	Saginaw
388802403	Saginaw Rock Products Co	5.4	5.4	Saginaw
388802587	Champagne & Marx Excav	6.0	6.0	Saginaw
388803393	Hunter, Ronald	48.0	48.0	Saginaw
388803700	Rapanos, John A	30.6	30.6	Saginaw
388803984	Griffin, Christopher S & Alice	5.3	5.3	Saginaw
388804186	Langschwager, H R & M M Etal	19.1	19.1	Saginaw
388804355	Powertrain R 51034 Fm200	11.7	11.7	Saginaw
388805167	Alj Corp	10.4	10.4	Saginaw
388805337	Section 12 Farms, L1c	6.8	6.8	Saginaw
388806090	Markey, Steven F & Lili C	53.7	53.7	Saginaw
388806193	Bridgeport Charter Township	7.7	7.7	Saginaw
388807015	Conagra Foods Inc Tax Dept	5.8	5.8	Saginaw
388807069	Parker, G & M A	18.0	18.0	Saginaw
388808012	B M T Terminal Inc	63.0	63.0	Saginaw
388808198	Schmidt, P H & M M	53.5	53.5	Saginaw
388808909	Wendland, A.R. Etal	9.4	9.4	Saginaw
388809850	Stroebel, G W&S J	9.3	9.3	Saginaw
388809924	Young Family Trust	17.8	17.8	Saginaw
388810213	Wendland, A.R. & Wendland, D.R.	23.4	23.4	Saginaw
388810352	Sahr, Dale & Ellen	13.6	13.6	Saginaw
388810497	Sawatzki, T L & S M	6.4	6.4	Saginaw
388810865	Kadlec, RJ & AM Trust	15.3	15.3	Saginaw
388812431	Pasionek, LJ&BJ	49.4	49.4	Saginaw
388812786	Wohlfeil, Raymond R	22.3	22.3	Saginaw
388813498	Vlasic Foods International Inc	13.3	13.3	Saginaw
388813642	Hammerbacher, T & M	49.4	49.4	Saginaw
388813794	Sivey, James Etal	5.9	5.9	Saginaw
388813901	Gustavison, D.K.&C.S	10.9	10.9	Saginaw
388814427	Billeter, A L & R G	8,0	8.0	Saginaw
388814892	Rivercrest Farms No	10.9	10.9	Saginaw
388816118	Kline, J A & K T	7.6	7.6	Saginaw
388816719	Robinson, E A & B J	25.6	25.6	Saginaw
388816959	Misteguay Creek Farms	20.7	20.7	Saginaw
388817430	Kulhanek Farms Inc	32.9	32.9	Saginaw
388817648	Lisik, Sylvia Etal	7.4	7.4	Saginaw
		× 5.5		
388817677	Oakes, E G & K A Mid Michigen Golf Course Inc	6.2	5.5 6.2	Saginaw Saginaw
388817808	<u> </u>	6.5		~
388818425	Wend, Eugene Etal	6.0	6.5	Saginaw
388819570	Bowen, JO&BA		6.0	Saginaw
388819709	Albosta, JP & G M Trust	7.5	7.5	Saginaw
388819763	Alderman, D.S.	5.8	5.8	Saginaw
388820120	Prokop, Marianne Trust	7.6	7.6	Saginaw
388821228	Johnson, Craig W & Jennifer M	20.5	20.5	Saginaw
388821413	Fisher, James	6.8	8.6	Saginaw
388824428	Alderman, D.S.	25.9	25.9	Saginaw
388831506	Gilmour, R K Trust	19.1	19.1	Saginaw
388831507	Pasionek, P A Et Al	109.6	109.6	Saginaw
388831511	Garno, Andrew	9.0	9,0	Saginaw
388831794	Blaine, H F & B M Trust	13.5	13.5	Saginaw

#### **Attachment C**

The Partnership's Letter of Support for Removing the Loss of Fish and Wildlife Habitat BUI, July 23, 2012.



Partnership for the Saginaw Bay Watershed 1817 Center Avenue Bay City, Michigan 48708 July 23, 2013

Bretton Joldermsma Area of Concern Coordinator Office of the Great Lakes Michigan Department of Environmental Quality 525 West Allegan Street Lansing, Michigan 48909-7973

#### Dear Bretton,

A forum of the Partnership for the Saginaw Bay Watershed Board of Directors met at a regular meeting on July 22, 2013. One of the items discussed was the two public meetings we hosted held on May 29, 2013 to discuss the 2012 Habitat and Populations BUI Plan for the Saginaw River/Bay Area of Concern. A summary of this meeting including questions and answers were reviewed and the Board found no reason to change their decision we should pursue the removal of the Fish and Wildlife Habitat BUI. This was confirmed with a unanimous vote of the Board to continue the process of removal.

The Partnership requests that the DEQ continue their own review of this data and take the appropriate defined steps in the removal process if they concur with our decision.

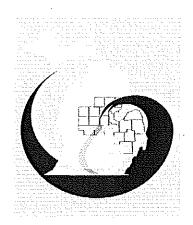
Respectfully,

Warren R. Smith Acting Director

Partnership for the Saginaw Bay Watershed

#### Attachment D

Information from the Partnership's May 29, 2013 Public Meeting



## Partnership for Saginaw Bay

Loss of Fish and Wildlife Habitat Beneficial Use Impairment (BUI)

May 29, 2013 3:00-4:30 PM & 6:30-8:00 PM

**Delta College Planetarium** 100 Center Ave., Bay City, Michigan

#### **AGENDA**

I. Welcome and Introduction (5 min.)

Bill Wright, Partnership

II. Area of Concern Program in Context (10 min.)

Bretton Joldersma, MDEQ

III. Loss of Fish and Wildlife Habitat BUI: 1987 Designation to Now (15 min.)

Jon Beard, PSC

IV. Saginaw Bay Wetland Protection Analysis (15 min.)

Robb Macleod, Ducks Unlimited

V. Facilitated Discussion (45 min.)

Bill Wright, Partnership

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NAME ORGANIZATION	
Dennis Zimmumen PSBW + SPAC	dennuzimme charter net
Charlie Bour DEQ	bauer comichigan, gov
Brad Hill PSBW	. () ()
Warren Smit PS Ble	
BRETTON JOLDERSMA DER/OGL	joldersmb@michigan.gov
Mikes Weilon	Joldersmab@michigan.gov Wench MJCCHMITH M. NOT
Joe Toth BBW	.jtothki@ad. com
Benvie Uhlmann SOS	bhuh (manna) toast net
GEORGE LAWINGER DNR	Lauingerg o michiganigev
BILL WRIGHT PSBO	ImpArtIT@quart.com
Jim Hergott Sas, NAW BAY RCVD	SESINAN BAY PAOLICA
Tiffary Foco	'\
MELANIE HAERTEL SAGINAWBAY RESIDEN-	t mkhaertel@aol.com
Bob Redmond Bd. of Comm B	ay redmendre baycountille
Templiller ConeThee Council	tenbar @ Charter, wet
Matthew Dubs Wade Trim Inc. / S.B.W.C Jane Fitzpatrick Bost MI Council of Goods	mdubs@wadetrim.com
Jane the patrick battle Council of Goods	
Frank Starikweather EcDer	frank Starhweather & hot mail
Bruce Sherbeck Retired Sci. Teder	6msherbe@charlerminet
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Praine Kussell U.S. ETA	_ elipehite (ulb/d)
Jacob Bennerr Rep. Dan Kilder	Jacob. bennet/@moril.house.gom. TIVEt J& Eaycounty.net
JOSEPH RIVET BAY COUNTY DRAW	Tivetje bay county net
WILLIAM MCPherson LAND OWNER	·-· · · · · · · · · · · · · · · · · · ·



### Partnership for Saginaw Bay Watershed

Loss of Fish and Wildlife Habitat Beneficial Use Impairment (BUI)

#### MAY 29, 2013 PUBLIC FORUM SUMMARY

The Partnership for the Saginaw Bay Watershed (Partnership) hosted two public forums on May 29, 2013 regarding the Loss of Fish and Wildlife Habitat (Habitat) Beneficial Use Impairment (BUI) for the Saginaw River/Bay Area of Concern (AOC). Two identical sessions were held from 3:00–4:30 p.m. and 6:30–8:00 p.m. at the Delta College Planetarium located in downtown Bay City.

The forum commenced with a welcome and brief introduction from Partnership board member, Bill Wright. The purpose of the forums was to discuss and seek public input on recent analysis of the Habitat BUI which suggests that restoration targets have been met, and the prospect of seeking removal of the BUI. About 35 people attended the two sessions, not including Partnership board members and presenters.

#### Presentations

Bretton Joldersma, the Saginaw River/Bay AOC Coordinator for the Michigan Department of Environmental Quality-Office of the Great Lakes, presented information regarding the goals and objectives of the AOC program and an overview of the policy framework for environmental restoration through the AOC program.

Jonathon Beard, a consultant with Public Sector Consultants (PSC), presented information regarding restoration planning for the Loss of Fish and Wildlife Habitat BUI since the Saginaw River/Bay was first designated as an AOC in 1987. He noted that PSC has provided consulting and facilitation support to the Partnership since the late 1990s. He reviewed the removal targets for the Habitat BUI that were developed in 2000 through a community-driven planning effort that culminated in the *Measures of Success* report. He also summarized planning and monitoring efforts that have occurred since 2000, the most recent of which suggest that BUI restoration goals have been met.

The restoration criteria for the Loss of Fish and Wildlife Habitat BUI are as follows:

- At least 60 percent of the coastal marsh areas (below the 585-foot contour) and adequate upland buffers representing essential fish and wildlife habitat are preserved through public ownership, covered under conservation easements, or otherwise protected under agreements with landowners
- The most vulnerable portions of the remaining 40 percent of the essential coastal marsh areas have been clearly identified so that governmental agencies, local conservation/environmental organizations, and concerned citizens can monitor their status, enhance enforcement of existing laws, and conduct public educational programs to better protect these areas

Robb Macleod, the National Geographic Information Systems Coordinator for Ducks Unlimited (DU), presented information about data analysis used to measure progress toward the BUI restoration goals. DU started tracking the amount of preserved coastal wetlands along the Saginaw River and Bay in 2005. The most recent analysis of preserved wetlands used parcel data from Saginaw River and Bay coastal counties, the National Wetlands Inventory, and the Conservation and Recreation Lands database to identify wetland areas that are permanently protected. Of the coastal wetlands an estimated 63.3 percent are currently protected, which exceeds the restoration goal. Robb also discussed the methodology that was developed by the Michigan Natural Features Inventory to prioritize the remaining wetlands for continued preservation beyond BUI removal.

#### Discussion

Following the presentations Bill Wright facilitated a discussion with forum attendees. Attendees asked questions regarding the relationship of the Habitat BUI to other BUIs for the AOC, the implications of potentially removing the BUI and the process for seeking BUI removal. Partnership board members and representatives from the MDEQ, Public Sector Consultants, and Ducks Unlimited responded to individual questions and comments during the discussion. General questions/comments and responses are summarized below.

Question: How does the Saginaw River/Bay AOC and the Loss of Fish and Wildlife Habitat BUI

relate to the Tittabawassee Natural Resource Damage Assessment (NRDA)? Should the

NRDA be completed before BUIs are removed?

Response: The AOC program is separate from the NRDA in both geography and scope.

Additionally, environmental concerns within the AOC related to hazardous chemicals are considered as part of other BUIs such as the Bird and Animal Deformities or Reproductive Problems BUI, and the Restrictions on Fish and Wildlife Consumption

BUI.

**Question:** What is the point of removing a BUI – why not keep it on the list?

Response: Once established restoration targets have been met, removing a BUI is important to

demonstrate progress and communicate success. It also helps the environmental

community focus efforts on the remaining impairments.

Question: The 1988 remedial action plan (RAP) identifies other impairments not addressed by

wetland preservation including reduced dissolved oxygen levels, river barriers, gravel

beds and rock reefs; how are these problems being addressed?

Response: The Habitat BUI is one of 10 remaining BUIs for the Saginaw River/Bay AOC. Many of these issues are being addressed through restoration plans for other BUIs. Additionally,

conditions have continued to improve in the AOC since it was first listed. For instance, low dissolved oxygen levels were largely attributed to high nutrient loading. According to the 1995 RAP, dissolved oxygen levels throughout Saginaw Bay were generally near saturation levels. Additionally, the 2002 RAP update states that "dissolved oxygen measurements in the Saginaw River indicated that levels are now consistently higher than the minimum state water quality standard for the protection of warm-water fish of 5.0 mg/l." In 2009, the MDEQ monitored several locations throughout the Saginaw Bay Watershed (including the Saginaw, Cass, and Tittabawassee Rivers) and determined that dissolved oxygen levels were in attainment with the state's warm-water dissolved oxygen

standard of 5.0 mg/l.

Question:

Why were the restoration criteria for the Habitat BUI and the Degradation of Fish and Wildlife Populations (Populations) BUI originally separate, tied together, and then separated again?

Response:

The AOC program continues to evolve and restoration targets are evaluated from time to time as new information becomes available. When the program first began to set restoration goals, species-specific targets were set for the Populations BUI. Over time it was determined that these targets no longer served as a good proxy for AOC restoration because of complex changes in food-web dynamics and broader ecosystem changes that affect Lake Huron and the rest of the Great Lakes broadly. Recognizing these limitations, restoration targets for the Population BUI were tied to the Habitat BUI because the two BUIs are related. At the time, a technical committee held the view that if habitat restoration was completed then the populations would be restored.

In a later evaluation of the BUIs it was determined that even if the wetland habitat was protected, fish and wildlife populations may still have some concerns due to chemicals in the environment. This led to the tiered restoration approach established in 2012 that essentially requires that wildlife reproductive and deformities issues related to chemicals be addressed before the fish and wildlife populations will be considered restored.

Question:

Areas outside of parcel boundaries may not be included in the wetland analysis—but individual property owners sometimes believe that their property extends to the water's edge. How was this considered?

Response:

The wetland analysis was conducted using the best available data which was provided by each of the counties along the Saginaw River and Bay. Each county provided digital geographic information systems (GIS) files that indicate parcel boundaries that were used to determine which areas are permanently protected and those that are not protected. If wetlands are not included within any parcel boundary then they may not be owned by an individual; these wetlands were excluded from the analysis. Some consider these areas to be public trust lands held by the state.

Question: Response:

Does the United States Fish and Wildlife Service (USFWS) support removal of this BUI? The USFWS provided funding support to develop the 2012 Habitat and Populations BUIs Restoration Plan and was involved with the development of the plan, which notes

that the wetland restoration target had been met.

Comment: Phragmites is an ongoing concern within Saginaw Bay coastal wetlands; this problem should be addressed.

Response:

The AOC program focuses on issues that are unique to AOC regions and generally does not address matters that affect the entire Great Lakes basin broadly, such as invasive species. Other state and federal programs are in place that are working to address these issues.

#### Conclusion

Nearing the end of the discussions, a few attendees expressed their opinions regarding the prospect of seeking removal of the Loss of Fish and Wildlife Habitat BUI. Some expressed their opposition to seeking removal while others expressed support for seeking removal.

An online comment form was established by the Partnership to accept comments regarding the wetland analysis and the prospect of BUI removal. A link to this form was included in the meeting announcement that was distributed through various listservs. As of June 30, 2012 no responses were entered.

#### Attachment E

MDEQ's September 23, and October 7, 2013 Calendars

tissue paper. The draft permit is intended to simplify and clarify the facility's applicable requirements and will not result in any air emission changes at the stationary source. The ROP public notice documents can be viewed at <a href="www.deq.state.mi.us/aps">www.deq.state.mi.us/aps</a>. The responsible official of the stationary source is Clarence Roznowski, 437 South Main Street, Cheboygan, Michigan 49721. Written comments on the draft ROP or a request to hold a public hearing are to be submitted to Rebbecca Radulski, Michigan Department of Environmental Quality, Air Quality Division, Cadillac District Office, Gaylord Field Office, 2100 West M-32, Gaylord, Michigan 49735, or via e-mail to <a href="mailto:radulskir@michigan.gov">radulskir@michigan.gov</a> by October 9, 2013. The decision-maker for the permit is Janis Denman, Cadillac District Supervisor. If requested in writing by October 9, 2013, a public hearing may be scheduled. Information Contact: <a href="mailto:redulskir@michigan.gov">Rebbecca Radulski</a>, Air Quality Division, <a href="mailto:redulskir@michigan.gov">redulskir@michigan.gov</a> or 989-705-3404.

**OCTOBER 9, 2013** 

DEADLINE FOR PUBLIC COMMENT REGARDING CODING PRODUCTS INCORPORATED, KALKASKA, KALKASKA COUNTY (SRN: B6175), for the draft renewal of a Renewable Operating Permit (ROP) for the operation of a solvent base coating operation. The draft permit is intended to simplify and clarify the facility's applicable requirements and will not result in any air emission changes at the stationary source. The ROP public notice documents can be viewed at <a href="https://www.deq.state.mi.us/aps">www.deq.state.mi.us/aps</a>. The responsible official of the stationary source is Mike Rasmussen, 475 North Gary Avenue, Carol Stream, Illinois 60188-4900. Written comments on the draft ROP or a request to hold a public hearing are to be submitted to Gloria Torello, Michigan Department of Environmental Quality, Air Quality Division, Cadillac District, Gaylord Field Office, 2100 West M32, Gaylord, Michigan 49735, or via e-mail to <a href="mailto-torellog@michigan.gov">torellog@michigan.gov</a> by October 9, 2013. The decision-maker for the permit is Janis Denman, Cadillac District Supervisor. If requested in writing by October 9, 2013, a public hearing may be scheduled. Information Contact: Gloria Torello, Air Quality Division, <a href="mailto-torellog@michigan.gov">torellog@michigan.gov</a> or 989-705-3410.



**OCTOBER 14, 2013** 

DEADLINE FOR PUBLIC COMMENT REGARDING THE PROPOSED REMOVAL OF THE LOSS OF FISH AND WILDLIFE HABITAT BENEFICIAL USE IMPAIRMENT FROM THE SAGINAW RIVER/BAY AREAS OF CONCERN. A link to the Removal Recommendation document can be found by clicking on "Progress Toward Restoring Beneficial Uses..." under the "Information" heading at: <a href="www.michigan.gov/aocprogram">www.michigan.gov/aocprogram</a>. Submit written comments to Bretton Joldersma, Michigan Department of Environmental Quality, Office of the Great Lakes, P.O. Box 30273, Lansing, Michigan 48909-7973, or to <a href="mailto:joldersmab@michigan.gov">joldersmab@michigan.gov</a> by midnight on October 14, 2013. In addition, a public meeting will be held on October 8, 2013, from 6:30-7:30 p.m. at the Bay County Public Library, 500 Center Avenue, Bay City, MI 48708. All comments received by October 14, 2013, will be considered prior to final action. Additional details on this proposed action may be obtained from: Bretton Joldersma, Office of the Great Lakes at 517-284-5048, or at joldersmab@michigan.gov.

OCTOBER 14, 2013

DEADLINE FOR PUBLIC COMMENT REGARDING THE PROPOSED REMOVAL OF THE BIRD OR ANIMAL DEFORMITIES OR REPRODUCTIVE PROBLEMS BENEFICIAL USE IMPAIRMENT FROM THE ST. MARYS RIVER AREAS OF CONCERN. A link to the Removal Recommendation document can be found by clicking on "Progress Toward Restoring Beneficial Uses..." under the "Information" heading at: <a href="www.michigan.gov/deqaocprogram">www.michigan.gov/deqaocprogram</a>. Submit written comments to Bretton Joldersma, Michigan Department of Environmental Quality, Office of the Great Lakes, P.O. Box 30273, Lansing, Michigan 48909-7973, or to <a href="joldersmab@michigan.gov">joldersmab@michigan.gov</a> by midnight on October 14, 2013. If requested in writing, a public hearing may be scheduled. All comments received by October 14, 2013, will be considered prior to final action. Additional details on this proposed action may be obtained from: Bretton Joldersma, Office of the Great Lakes at 517-284-5048, or at joldersmab@michigan.gov.

**OCTOBER 14, 2013** 

DEADLINE FOR PUBLIC COMMENT REGARDING THE PROPOSED REMOVAL OF THE DEGRADATION OF AESTHETICS BENEFICIAL USE IMPAIRMENT FROM THE ST. MARYS RIVER AREAS OF CONCERN. A link to the Removal Recommendation document can be found by clicking on "Progress Toward Restoring Beneficial Uses..." under the "Information" heading at: <a href="www.michigan.gov/aocprogram">www.michigan.gov/aocprogram</a>. Submit written comments to Bretton Joldersma, Michigan Department of Environmental Quality, Office of the Great Lakes, P.O. Box 30273, Lansing, Michigan 48909-7973, or to joldersmab@michigan.gov by midnight on October 14, 2013. If requested in writing, a public hearing may be scheduled. All comments received by October 14, 2013, will be considered prior to final action. Additional details on this proposed action may be obtained from: Bretton Joldersma, Office of the Great Lakes at 517-284-5048, or at joldersmab@michigan.gov.

Joldersma, Michigan Department of Environmental Quality, Office of the Great Lakes, P.O. Box 30273, Lansing, Michigan 48909-7973, or to <a href="mailto:joldersmab@michigan.gov">joldersmab@michigan.gov</a> by midnight on October 14, 2013. If requested in writing, a public hearing may be scheduled. All comments received by October 14, 2013, will be considered prior to final action. Additional details on this proposed action may be obtained from: <a href="mailto:Bretton Joldersma">Bretton Joldersma</a>, Office of the Great Lakes at 517-284-5048, or at <a href="mailto:joldersmab@michigan.gov">joldersmab@michigan.gov</a>.



#### **OCTOBER 14, 2013**

DEADLINE FOR PUBLIC COMMENT REGARDING THE PROPOSED REMOVAL OF THE LOSS OF FISH AND WILDLIFE HABITAT BENEFICIAL USE IMPAIRMENT FROM THE SAGINAW RIVER/BAY AREAS OF CONCERN. A link to the Removal Recommendation document can be found by clicking on "Progress Toward Restoring Beneficial Uses..." under the "Information" heading at: <a href="www.michigan.gov/aocprogram">www.michigan.gov/aocprogram</a>. Submit written comments to Bretton Joldersma, Michigan Department of Environmental Quality, Office of the Great Lakes, P.O. Box 30273, Lansing, Michigan 48909-7973, or to <a href="mailto:ioldersmab@michigan.gov">ioldersmab@michigan.gov</a> by midnight on October 14, 2013. In addition, a public meeting will be held on October 8, 2013, from 6:30-7:30 p.m. at the Bay County Public Library, 500 Center Avenue, Bay City, MI 48708. All comments received by October 14, 2013, will be considered prior to final action. Additional details on this proposed action may be obtained from: <a href="mailto:Bretton Joldersma">Bretton Joldersma</a>, Office of the Great Lakes at 517-284-5048, or at <a href="mailto:ioldersmab@michigan.gov">ioldersmab@michigan.gov</a>.

## OCTOBER 15, 2013 6:30 p.m.

PUBLIC HEARING ON PERMIT APPLICATION SUBMITTED BY HIDDEN VILLAGE HOMEOWNERS ASSOCIATION. The Water Resources Division will hold a public hearing at 6:30 p.m. at the Bagley Town Hall, 2946 Old 27 South, Gaylord, Michigan 49735-8436. The hearing will be for Hidden Village Homeowner's Association, 303 Weydon Road, Worthington, Ohio, 43085. The applicant proposes to install a Laminar Flow Aeration System for Kassuba Lake. The system is proposed to consist of one C1144 Inversion System with 14 Micro-Porous Diffusers and 9,800 feet of self-sinking airline. Airline will be trenched form the compression station to the lake. System is proposed to be run during no-ice cover periods (approximately April 11 – November 30). No dredging is proposed. No mitigation is proposed. The project is located in T30N, R3W, Section 12, Bagley Township, Otsego County, Michigan. Information Contact: Roxanne Merrick, Water Resources Division, merrickr@michigan.gov or 989-705-3442,

#### OCTOBER 16, 2013 10:00 a.m.

TENTATIVELY SCHEDULED PUBLIC HEARING REGARDING WHITE PINE ELECTRIC POWER, LLC, WHITE PINE, ONTONAGON COUNTY (SRN: B1966), for the draft renewal of a Renewable Operating Permit (ROP) for the operation of their steam and electricity generating plant. The permit is intended to simplify and clarify the facility's applicable requirements and will not result in any air emission changes at the stationary source. The ROP public notice documents can be viewed on the Web at <a href="https://www.deg.state.mi.us/aps.">www.deg.state.mi.us/aps.</a>. The responsible official of the stationary source is Steve Walsh, 29639 Willow Road, White Pine, Michigan 49971. Written comments on the draft ROP or a request to hold a public hearing are to be submitted to Thomas Maki, Michigan Department of Environmental Quality, Air Quality Division, Upper Penninsula District Office, 420 Fifth Street, Gwinn, Michigan 49841, or via e-mail to <a href="makit@michigan.gov">makit@michigan.gov</a> by October 9, 2013. If requested in writing by October 9, 2013, a public hearing will be held at 420 Fifth Street in Gwinn, Michigan on October 16, 2013 at 10:00 am. Those interested may contact Thomas Maki on October 10, 2013 to determine if a hearing was requested and will be held. Information Contact: *Thomas Maki*, Air Quality Division, makit@michigan.gov or 906-346-8503.

#### **OCTOBER 16, 2013**

5:30 p.m. INFORMATIONAL SESSION 7:00 p.m. PUBLIC HEARING

## INFORMATIONAL SESSION, PUBLIC HEARING, AND DEADLINE FOR PUBLIC COMMENT REGARDING DETROIT WATER AND SEWERAGE DEPARTMENT, DETROIT, WAYNE

COUNTY, on a proposed draft Permit for proposed upgrades of the Complex II sewage sludge incinerators and construction of a biosolids drying facility. Additionally, the upgrades of the Complex II sewage sludge incinerators and construction of a biosolids drying facility will require revisions to Renewable Operating Permit (ROP) No. 1996 00412. This public comment period meets the public participation requirements for a future administrative amendment to the ROP. The facility is located at 9300 West Jefferson Avenue, Detroit, Michigan. The responsible official for the source is Samuel A. Smalley, Assistant Director, 9300 West Jefferson Avenue, Detroit, Michigan. New Source Review and ROP public notice documents can be viewed at <a href="https://www.deq.state.mi.us/aps.">www.deq.state.mi.us/aps.</a>. The public hearing will be held on October 16, 2013, at the Delray Neighborhood House, 420 South Leigh Street, Detroit, Michigan. Prior to the hearing, an informational session will be held from 5:30 p.m. to 7:00 p.m., where staff will provide a brief introduction regarding the proposed project and be available to answer questions; the public hearing will immediately follow. Witten comments should be sent to Ms. Mary Ann Dolehanty, Permit Section Supervisor, Michigan Department of

#### Attachment F

Summary of Public Comments from October 8, 2013 DEQ Public Meeting

## Public Meeting Summary: Proposed Removal of the Loss of Fish and Wildlife Habitat Beneficial Use Impairment from the Saginaw River/Bay Area of Concern

**Meeting Date:** October 8, 2013; 6:30pm – 7:30pm

Location: Bay County's Writ Public Library; 500 Center Ave., Bay City, MI 48708

Meeting Summary:

The Michigan Department of Environmental Quality (MDEQ), Office of the Great Lakes (OGL), hosted a public meeting on October 8, 2013 to present information about the possible proposal to remove the Loss of Fish and Wildlife Habitat (Habitat) Beneficial Use Impairment (BUI) for the Saginaw River/Bay Area of Concern (AOC). The OGL started the meeting with a short presentation detailing the findings from Ducks Unlimited's 2012 Habitat BUI status assessment which found that the restoration criteria for the Habitat BUI had been met. Following the presentation the floor was opened to the public for questions and comments. Below is a summary of the general questions/comments that were raised during the meeting.

Comment: Concerns were raised about the mapping of wetlands on private property and

that the MDEQ would designate their property as a wetland resulting in a "taking"

of private property.

Response: The AOC program is non-regulatory program and is not responsible for the

implementation or enforcement of the state's wetland regulations. The current wetlands (below the 585-foot contour) that were identified as being protected include both public and private land. The conservation of private land is voluntary and it up to individual landowners to decide if they want to participate in any land

conservation programs.

Comment: A question was raised about what happens to property taxes when a wetland is

identified on a property.

Response: Taxable value of land is determined by local units of government and is outside

the scope of the AOC program.

Comment: Concerns were raised about MDEQ's wetland program and the Federal

Emergency Management Agency's (FEMA) floodplain maps.

Response: The Habitat beneficial use was listed as impaired primarily due to the historic

loss/degradation of coastal wetland. The protection of coastal wetlands below the 585-foot contour is based on a conservation priority for the Saginaw Bay Watershed and is important for the protection of the plants and animals that live and migrate through the Saginaw Bay. The identification of the 585-foot contour

has no connection to FEMA's floodplain maps or MDEQ's wetland program.

Comment: Concerns were raised about contaminated sediment, eutrophication, and "muck"

at Bay City State Recreation Area.

Response: The OGL shares these concerns and indicated that these issue are still being

addressed but under different beneficial uses (i.e. Degradation of Benthos,

Eutrophication or Undesirable Algae, Degradation of Phytoplankton or

Zooplankton Populations, etc.). At this time, these other beneficial uses are still impaired and only the Habitat BUI is being considered for potential removal. Further, the proposed removal of the Habitat BUI does not mean that work is done in the AOC. If the Habitat BUI were to be removed the Saginaw River/Bay AOC would still have 9 beneficial uses listed as impaired and there would still be many environmental problems that will need to be addressed.

The public meeting ended at 7:30pm and everyone in attendance (see sign-in sheet) was offered an opportunity to provide comments. In addition, the audience was informed that all comments received by October 14, 2013 will be considered prior to any final action on the status of the Habitat BUI.

#### SIGN-IN-SHEET

#### Loss of Fish and Wildlife Habitat Beneficial Use Impairment Public Meeting

October 8, 2013; 6:30pm – 7:30pm Bay County's Writ Public Library 500 Center Ave., Bay City, MI 48708

Name	Organization	Email
WILLIAM Mc Pherson		MACATTACK -ONE GO YAKOO. COM
ERNIE KLYGIER	By County Comm.	ELNIE KAJGIEL SENICE &
Mike Bristow	SBEC	ptot not.
James Herr		
Sill NoPherson		
Dennis Zimmerman	PSBW + SPAC	denniszimm chatunet
Varren Smill	PSBW	wfesmith CSBCGlobal. Ne
Jon Beard	PSC	Ibeard Opscircen
BRETTON JOLDERSMA	mD=Q-06L	soldersmab@michigang
Rick Hobrlz	MDEQ-OGL	hobolor (3) michiganger
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