



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
SAGINAW BAY DISTRICT OFFICE



DAN WYANT
DIRECTOR

October 9, 2014

RACER Trust
c/o Mr. Dave Favero
500 Woodward Avenue, Suite 1510
Detroit, MI 48226

Dear RACER Trust :

SUBJECT: Preapplication Meeting
Michigan Department of Environmental Quality (MDEQ)
File Number 14-73-0037-P

This letter is a follow-up to our October 1, 2014, preapplication meeting regarding the proposed project in City of Saginaw, Saginaw County. The purpose of a preapplication meeting is to provide you with information that will clarify the permit process, answer preliminary questions about your specific project in order to avoid delays at a later date, and to determine, if possible, the need for wetland or inland lakes and streams permits.

During this meeting we reviewed the need to obtain a permit under Part 301, Inland Lakes and Streams; and Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). The review was based on discussion of the proposed project and draft permit application, the proposed site, and potential modifications to the project discussed during our meeting.

During the review of the project site, the MDEQ's Water Resources Division (WRD) staff made the following findings regarding the need for a permit under Part 301 and Part 303 of the NREPA:

- A permit is required for the project as proposed.
- A permit is not required for the project as proposed.
- It cannot be determined whether a permit is required given the information presented at this time.

This determination is based on the attached project plan prepared by Dave Favero and dated August 25, 2014 along with other attached information provided at the time of this meeting only. Provided that the proposed project and location are not altered, this determination is binding on the MDEQ for a period of two years from the date of this meeting.

During the review of the proposed project, WRD staff noted activities that, as currently designed, would require authorization under

Floodplain Regulatory Authority found in Part 31, Water Resources Protection, of the NREPA.

Section 404 of the federal Clean Water Act and/or the federal Rivers and Harbors Act from the United States Army Corps of Engineers.

During the meeting, we also discussed a number of issues related to the project, including the following:

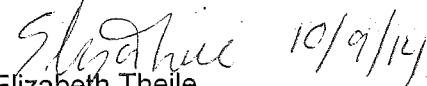
- The history of the project, sediment testing/contamination and water quality.
- Alternatives considered.
- Possible alternative design options to minimize project effects on aquatic resources, *specifically* the wetland impacts.
- The Minor Project Category for Cleanup of Hazardous and Toxic Waste and the specific criteria to meet this category.
- Potential floodplain effects.
- Wetland mitigation for impacts accumulating to more than 1/3 of an acre and ways to minimize these impacts.
- The changes that will need changes in the draft permit submitted.

Please note that this is not a permit. The WRD cannot indicate during a preapplication meeting whether or not a permit will be issued. The WRD cannot make a decision regarding a permit until it has considered all of the information provided in the final permit application, and, in some instances, has also considered comments received in response to a public notice of the project. Therefore, WRD staff cannot legally tell you whether the project will be permitted in advance of a permit application being submitted and reviewed.

The MDEQ file number assigned to this project is 14-73-0037-P. Please keep a record of this file number, and use it when submitting a final application or otherwise corresponding with our office on this project.

We appreciate the opportunity to meet with you or your representative to address these concerns. We have established a file for this project, and the information submitted to date will be used to facilitate processing of the final application. If you should have follow up questions before then, please contact me at 989-894-6224, Theilee1@michigan.gov; or MDEQ, WRD, Saginaw Bay District Office, 401 Ketchum Street, Suite B, Bay City MI, 48708-5430.

Sincerely,


Elizabeth Theille
Water Resources Division

Attachment

cc:
Conestoga-Rovers & Associates, Inc., John-eric Pardys
Conestoga-Rovers & Associates, Inc., Michael Tomka



WATER RESOURCES DIVISION
Date Received AUG 25 2014

AGENCY USE	Previous USACE File Number	DEQ File Number
	USACE File Number	Fee received \$

Validate that all parts of this checklist are submitted with the application package. Fill out application and additional pages as needed.

- All items in Sections 1 through 9 are completed.
- Project-specific Sections 10 through 20 are completed.
- Dimensions, volumes, and calculations are provided for all impact areas.
- All information contained in the headings for the appropriate Sections (1-20) are addressed, and identified attachments (→) are included.
- Map, site plan(s), cross sections; one set must be black and white on 8 1/2 by 11 inch paper; photographs.
- Application fee is attached.

1 Project Location Information For Latitude, Longitude, and TRS info anywhere in Michigan see www.mcqi.state.mi.us/wetlands/

Project Address (road, if no street address) <i>2100 Veterans Memorial Parkway</i>	Zip Code <i>48601</i>	Municipality (Township/Village/City) <i>Saginaw</i>	County <i>Saginaw</i>
Property Tax Identification Number(s) <i>21 4333 00000</i>	Latitude <i>43.6214 N</i>	Township/Range/Section (TRS) T <u>12</u> N or S; R <u>5</u> E or W;	
Subdivision/Plat and Lot Number	Longitude <i>- 83 908383 W</i>	Sec <u>8</u> OR Private Claim # _____	

2 Applicant and Agent Information

Owner/Applicant (individual or corporate name) <i>RACER Trust, c/o Dave Favero</i>	Agent/Contractor (firm name and contact person) <i>Conestoga Rivers & Associates, Inc. c/o John Eric Pardys</i>
Mailing Address <i>500 Woodland Avenue, Saginaw, MI 48601</i>	Mailing Address <i>2500 Cliff Bridge, Waterloo, ON N2V 1C2</i>
City <i>Saginaw</i> State <i>MI</i> Zip Code <i>48601</i>	City <i>Waterloo</i> State <i>ON</i> Zip Code <i>N2V 1C2</i>
Contact Phone Number <i>734-879-9525</i>	Contact Phone Number <i>519-854-0516</i>
Email <i>dfavero@racertrust.org</i>	E-mail <i>jpardys@craworld.com</i>
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Is the applicant the sole owner of all property on which this project is to be constructed and all property involved or impacted by this project? → If no, attach letter(s) of authorization from all property owners including the owner of the disposal site.	
Property Owner's Name (if different from applicant)	Mailing Address
Contact Phone Number	City State Zip Code

PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

3 Project Description

Project Name <i>Nodular Facility - North Ditch Stabilization</i>	Preapplication File Number - - -P
Name of Water body <i>Saginaw River</i>	Date project staked/flagged

The proposed project is on, within, or involves (check all that apply)		Project Use
<input type="checkbox"/> an inland lake (5 acres or more)	<input type="checkbox"/> a Great Lake or Section 10 Waters	<input checked="" type="checkbox"/> private
<input checked="" type="checkbox"/> a pond (less than 5 acres)	<input type="checkbox"/> a wetland	<input type="checkbox"/> commercial
<input checked="" type="checkbox"/> a stream, river, ditch or drain	<input checked="" type="checkbox"/> a 100-year floodplain	<input type="checkbox"/> public/government
<input type="checkbox"/> a legally established County Drain Date Drain was established	<input type="checkbox"/> a dam	<input type="checkbox"/> project is receiving federal/state transportation funds
<input type="checkbox"/> a channel/canal	<input type="checkbox"/> a designated high risk erosion area	<input type="checkbox"/> Wetland Restoration
<input checked="" type="checkbox"/> 500 feet of an existing water body	<input type="checkbox"/> a designated critical dune area	<input checked="" type="checkbox"/> other <i>Industrial</i>
	<input type="checkbox"/> a designated environmental area	

Indicate the type of permit being applied for: General Permit Minor Project Individual (All other projects.) → See Appendix C.

Written Summary of All Proposed Activities *Clear and grub vegetation surrounding the North Ditch, remove water from the ditch, install catchbasin within ditch approximately 80 feet from existing manholes, install geotextile fabric over sediment, sling pea gravel over the geotextile, then fill ditch with clean backfill, once ditch is backfilled grade swales to direct water along the former ditch to the catch basin, seed*

Construction Sequence and Methods

**4 Project Purpose, Use and Alternatives** *Attach additional sheets as necessary.*

Describe the purpose of the project and its intended use; include any new development or expansion of an existing land use.

Purpose of the work is to stabilize minor impacts in sediments in the North Ditch, while improving the stormwater drainage for the area.

Describe the alternatives considered to avoid or minimize resource impacts. Include factors such as, but not limited to, alternative locations, project layout and design, and construction technologies. For utility crossings include alternative routes and construction methods.

*Alternatives evaluated included: Alternative 1 - install catchbasin, cover sediment with geotextile, then pea stone, then backfill. Alternative 2 - remove and dispose of sediment off-Site, install catchbasin, then backfill.***5 Locating Your Project Site** *Attach a legible black and white map with a North arrow.*Names of roads of closest intersection *North Washington Road and Veterans Memorial Parkway*Directions from main intersection to the project site, with distances from the best and nearest visible landmark and water body *Site work is located approximately 0.8 miles north of the closest intersection (third driveway on the right)*Description of buildings on the site (color; 1 or 2 story, other)
*None*Description of adjacent landmarks or buildings (address; color; etc)
*Site is immediately south of the Saginaw Wastewater Treatment Plant (2406 Veterans Memorial Pkwy)
Site is immediately north and west of Tri-Cap Building (brown-red brick)
Site is north of Manufacturing Building - white metal siding*How can your site be identified if there is no visible address? *See figure 1 from memorandum entitled, "Stabilization Alternative Evaluation and Recommendation for the North Ditch"***6 Easements and Other Permits** No Yes Is there a conservation easement or other easement, deed restriction, lease, or other encumbrance upon the property?

If yes, attach a copy. Provide copies of court orders and legal lake levels if applicable.

List all other federal, interstate, state, or local agency authorizations including required assurances for Critical Dune Area projects.

Agency	Type of Approval	Number	Date Applied	Date approved/denied	Reason for denial
MDEQ	NPDES	MI0059042	April 4, 2012	Approved: Aug. 24, 2012	

7 Compliance

If a permit is issued, when will the activity begin? (M/D/Y)

Proposed completion date (M/D/Y)

 No Yes Has any construction activity commenced or been completed in a regulated area?

If Yes, identify the portion(s) underway or completed on drawings or attach project specifications and give completion date(s).

 No Yes Were the regulated activities conducted under a DEQ and/or USACE permit?

If Yes, list the permit numbers

 No Yes Are you aware of any unresolved violations of environmental law or litigation involving the property?If Yes, attach explanation. *See explanation provided at the bottom of the page.***8 Adjoining Property Owners** *Provide current mailing addresses. Attach additional sheets/labels for long lists.*

<input type="checkbox"/> Established Lake Board	Contact Person	Mailing Address	City	State and Zip Code
<input type="checkbox"/> Lake Association				

List all adjoining property owners.

If you own the adjoining lot, provide the requested information for the first adjoining parcel that is not owned by you.

Property Owner's Name	Mailing Address	City	State and Zip Code
Tri-Cap	2300 Veterans Memorial Parkway	Saginaw	MI, 48601
Saginaw Wastewater Treatment Plant	2406 Veterans Memorial Parkway	Saginaw	MI, 48601
CMI-Schneible Co.	2220 Veterans Memorial Parkway	Saginaw	MI, 48601

Yes, a violation notice (request for information) dated April 7, 2014 was submitted to RACER regarding floodplain concerns. Additional information was provided to the MDEQ on May 8, 2014. To date RACER has not received a response.



9

Applicant's Certification

Read carefully before signing.

I am applying for a permit(s) to authorize the activities described herein. I certify that I am familiar with the information contained in this application; that it is true and accurate; and, to the best of my knowledge, that it is in compliance with the State Coastal Zone Management Program. I understand that there are penalties for submitting false information and that any permit issued pursuant to this application may be revoked if information on this application is untrue. I certify that I have the authority to undertake the activities proposed in this application. By signing this application, I agree to allow representatives of the DEQ, USACE, and/or their agents or contractors to enter upon said property in order to inspect the proposed activity site before and during construction and after the completion of the project. I understand that I must obtain all other necessary local, county, state, or federal permits and that the granting of other permits by local, county, state, or federal agencies does not release me from the requirements of obtaining the permit requested herein before commencing the activity. I understand that the payment of the application fee does not guarantee the issuance of a permit.

<input checked="" type="checkbox"/> Property Owner <input type="checkbox"/> Agent/Contractor <input type="checkbox"/> Corp. or Public Agency / Title	Printed Name <i>Dave Favero</i>	Signature	Date
--	------------------------------------	-----------	------

WATER RESOURCES DIVISION

AUG 25 2014

**PRELIMINARY DRAFT FOR
DISCUSSION PURPOSES**



10 Projects Impacting Inland Lakes, Streams, Great Lakes, Wetlands or Floodplains

- Complete only those sections A through M applicable to your project.
- If your project impacts wetlands also complete Section 12. If your project impacts regulated floodplains also complete Section 13.
- To calculate volume in cubic yards (cu yd), multiply the average length in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27. Example: (25 ft long x 10 ft wide x 2 feet deep) / 27 = 18.5 cubic yards
- Some projects on the Great Lakes require an application for conveyance prior to Joint Permit Application completeness.
 - ➔ Provide a black and white overall site plan, with cross-section and profile drawings. Show existing lakes, streams, wetlands, and other water features; existing structures; and the location of all proposed structures, land change activities and soil erosion and sedimentation control measures. Review Appendix B and EZ Guides for aid in providing complete site-specific drawings.
 - ➔ Provide tables for multiple impact areas or multiple activities such as multiple fill areas or multiple culverts. Include your calculations.

Water Level Elevation

On inland waters NGVD 29 NAVD 88 other Observed water elevation (ft) *584.68* date of observation (M/D/Y) *8/7/2014*
 On a Great Lake IGLD 85 surveyed converted from observed still water elevation.

A. PROJECTS REQUIRING FILL (See All Sample Drawings)

- ➔ Attach a site plan and cross-section views to scale showing maximum and average fill dimensions with calculations.
- ➔ For multiple impact areas on a site provide a table with location, dimensions and volumes for each fill area.

Purpose	<input type="checkbox"/> bioengineered shore protection	<input type="checkbox"/> boat ramp	<input type="checkbox"/> boat well	<input type="checkbox"/> bridge or culvert	<input type="checkbox"/> crib dock
	<input type="checkbox"/> riprap	<input type="checkbox"/> seawall	<input type="checkbox"/> swim area	<input checked="" type="checkbox"/> other <i>infill ditch</i>	
Dimensions of fill (ft) Length <i>1,300ft</i> Width <i>40ft</i> Maximum Depth <i>6ft</i>	Total volume (cubic yards) <i>8,000</i>	Volume below OHWM (cubic yards) <i>~7,250 (assuming OHWM of 585.64)</i>			
Maximum water depth in fill area (ft) <i>6ft</i>	Area filled (sq ft) <i>46,000</i>	Will filter fabric be used under proposed fill? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (If Yes, type) <i>geotextile</i>			

Fill will extend _____ feet into the water from the shoreline and upland _____ feet out of the water.

Type of clean fill peastone 10% sand % gravel % other *clay 80% and topsoil 10%*

Source of clean fill commercial on site ➔ If on-site, show location on site plan. other ➔ If other, attach description of location.

B. PROJECTS REQUIRING DREDGING (See Sample Drawings)

- Refer to www.mi.gov/jointpermit for spoils disposal and authorization requirements.
- ➔ Attach a site plan and cross-section views to scale showing maximum and average dredge or excavation dimensions with calculations.
- ➔ For multiple impact areas on a site provide a table with location, dimensions and volumes for each dredge or excavation area.

Purpose	<input type="checkbox"/> boat ramp	<input type="checkbox"/> boat well	<input type="checkbox"/> bridge or culvert	<input type="checkbox"/> maintenance dredge
	<input type="checkbox"/> navigation	<input type="checkbox"/> pond/basin	<input type="checkbox"/> other	
Dimensions (ft) Length _____ Width _____ Maximum Depth _____	Total volume (cu yds)	Volume below OHWM (cu yds)		
Has this same area been previously dredged?	<input type="checkbox"/> No <input type="checkbox"/> Yes	If Yes, provide date and permit number:		
Will the previously dredged area be enlarged?	<input type="checkbox"/> No <input type="checkbox"/> Yes	If Yes, when and how much?		
Is long-term maintenance dredging planned?	<input type="checkbox"/> No <input type="checkbox"/> Yes	If Yes, how often?		

Dredge or Excavation Method Hydraulic Mechanical other

Spoils Disposal	Dredged or excavated spoils will be placed <input type="checkbox"/> on-site <input type="checkbox"/> landfill <input type="checkbox"/> USACE confined disposal facility <input type="checkbox"/> other upland off-site For disposal, provide a ➔ Detailed spoils disposal area location map and site plan with property lines. ➔ Letter of authorization from property owner of spoils disposal site, if disposed off-site.
	For volumes less than 5,000 cu yards, has proposed dredge material been tested for contaminants within the past 10 years? <input type="checkbox"/> No <input type="checkbox"/> Yes ➔ If Yes, provide test results with a map of sampling locations.

C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12, 14, 22, and 23)

Riprap water ward of the ordinary high water mark: dimensions (ft) length _____ width _____ depth _____	Volume(cu yd)
Riprap landward of the ordinary high water mark: dimensions (ft) length _____ width _____ depth _____	Volume(cu yd)
Type and size of riprap (inches) <input type="checkbox"/> field stone <input type="checkbox"/> angular rock <input type="checkbox"/> other	Will filter fabric or pea stone be used under proposed riprap? <input type="checkbox"/> No <input type="checkbox"/> Yes, Type _____

PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

WATER RESOURCES DIVISION
AUG 27 2014



<input type="checkbox"/> D. SHORE PROTECTION PROJECTS (See EZ Guides and Sample Drawings 2, 3, and 17. Complete Sections 10A, B, and/or C.) ⇨ For bioengineering projects include the list of native plants/seeds, if available.			
Type and length (ft)	<input type="checkbox"/> bioengineering (ft)	<input type="checkbox"/> revetment (ft)	<input type="checkbox"/> riprap (ft) <input type="checkbox"/> seawall/bulkhead (ft)
Structure is <input type="checkbox"/> new <input type="checkbox"/> repair <input type="checkbox"/> replacement of an existing structure	Will the existing structure be removed? <input type="checkbox"/> No <input type="checkbox"/> Yes		
Proposed Toe Stone (linear feet)	Distance of project from adjacent property lines (ft)		
Distance of project from an obvious fixed structure (example - 50 ft from SW corner of house)			
For bioengineering projects indicate the structure type <input type="checkbox"/> brush bundles <input type="checkbox"/> coir log <input type="checkbox"/> live stakes <input type="checkbox"/> tree revetment <input type="checkbox"/> other			
<input type="checkbox"/> E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10) ⇨ Attach a copy of the property legal description, mortgage survey, or a property boundary survey report.			
Dock Type <input type="checkbox"/> open pile <input type="checkbox"/> filled <input type="checkbox"/> crib <input type="checkbox"/> floating <input type="checkbox"/> cantilevered <input type="checkbox"/> spring piles <input type="checkbox"/> piling clusters <input type="checkbox"/> other			
Is the structure within the applicant's riparian area interest area? <input type="checkbox"/> No <input type="checkbox"/> Yes ⇨ Show parcel property lines on the site plan.			
Proposed structure dimensions (ft) length width	Use <input type="checkbox"/> private <input type="checkbox"/> public <input type="checkbox"/> commercial		
Dimensions of nearest adjacent structures (ft) length width	Distance of dock from adjacent property lines (ft)		
<input type="checkbox"/> F. BOAT WELL (See EZ Guide. Complete Sections 10A and 10B)			
Dimensions (ft) length width depth	Number of boats		
Type of sidewall stabilization <input type="checkbox"/> concrete <input type="checkbox"/> riprap <input type="checkbox"/> steel <input type="checkbox"/> vinyl <input type="checkbox"/> wood <input type="checkbox"/> other	WATER RESOURCES DIVISION AUG 25 2014		
Volume of backfill behind sidewall stabilization (cu yd)	Distance of boat well from adjacent property lines (ft)		
<input type="checkbox"/> G. BOAT RAMP (See EZ Guide. Complete sections 10A, 10B, and 10C for mattress and pavement fill, dredge, and riprap)			
Type <input type="checkbox"/> new <input type="checkbox"/> existing <input type="checkbox"/> maintenance/improvement	Use <input type="checkbox"/> private <input type="checkbox"/> public <input type="checkbox"/> commercial		
Existing overall boat ramp dimensions (ft) length width depth	Type of construction material <input type="checkbox"/> concrete <input type="checkbox"/> wood <input type="checkbox"/> stone <input type="checkbox"/> other		
Proposed overall ramp dimensions (ft) length width depth	Proposed ramp dimensions (ft) below ordinary high water mark length width depth		
Number of proposed skid piers	Proposed skid pier dimensions (ft) length width	Distance of ramp from adjacent property lines (ft)	
<input type="checkbox"/> H. BOAT HOIST - ROOFS (See EZ Guide)			
Type <input type="checkbox"/> cradle <input type="checkbox"/> side lifter <input type="checkbox"/> other	Located on <input type="checkbox"/> seawall <input type="checkbox"/> dock <input type="checkbox"/> bottomlands		
Hoist dimensions, including catwalks (ft) length width			
Area occupied, including cat walks (sq ft)	Distance of hoist from adjacent property lines (ft)		
Permanent Roof <input type="checkbox"/> No <input type="checkbox"/> Yes ⇨ If Yes, how is the roof supported?	Maximum Roof Dimensions (ft): length width height		
<input type="checkbox"/> I. BOARDWALKS and DECKS in WETLANDS or FLOODPLAINS (See Sample Drawings 5 and 6. Complete Sections 12 and/or 13) ⇨ Provide a table for multiple boardwalks and decks proposed in one project; include locations and dimensions.			
Wetlands		Floodplains	
Boardwalk <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Deck <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Boardwalk <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Deck <input type="checkbox"/> on pilings <input type="checkbox"/> on fill
Dimensions (ft) length width	Dimensions (ft) length width	Dimensions (ft) length width	Dimensions (ft) length width
<input checked="" type="checkbox"/> J. INTAKE PIPES (See Sample Drawing 16) or OUTLET PIPES (See Sample Drawing 22)			
If outlet pipe, discharge is to <input type="checkbox"/> inland lake <input type="checkbox"/> stream, drain or river <input type="checkbox"/> overland flow <input type="checkbox"/> Great Lake <input type="checkbox"/> wetland <input checked="" type="checkbox"/> other existing storm sewer			
Number of pipes 1	Pipe diameters and invert elevations 6" PVC Inv. 582.68 at new CB and Inv. 582.04 at existing CB	Does pipe discharge below the OHWM?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
		Is the water treated before discharge?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Dimensions of headwall OR end section (ft) length width height			
Type <input type="checkbox"/> headwall <input type="checkbox"/> end section <input type="checkbox"/> other			

PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

WATER RESOURCES DIVISION
AUG 25 2014



K. MOORING and NAVIGATION BUOYS (See EZ Guide for Sample Drawing)
 ➔ Provide a site plan showing the distances between each buoy and from the shore to each buoy, and depth (ft) of water at each location.
 ➔ Provide cross-section drawing(s) showing anchoring system(s) and dimensions.

Purpose of buoy mooring navigation scientific structures swimming other

Number of buoys	Dimensions of buoys (ft)				Boat Lengths	Type of anchor system
	width	height	swing radius	chain length		

Buoy Location: Latitude N Longitude W. ➔ Provide a table for multiple buoys.

Do you own the property along the shoreline? No Yes ➔ If No, attach an authorization letter from the property owner(s).

Do you own the bottomlands? No Yes ➔ If No, attach an authorization letter from the property owner(s).

L. FENCES
 ➔ Provide an overall site plan showing the proposed fencing through streams, wetlands or floodplains.
 ➔ Provide a drawing of fence profile showing the design, dimension, post spacing, mesh, and distance from ground to bottom of fence.

Purpose of fence Airport Cervidae Livestock Residential Security Other

Total length (ft) of fence through	Fence height (ft)	Fence type and material
streams wetlands floodplains		

M. OTHER - e.g., structure removal, maintenance or repair, aerator, dry fire hydrant, gold prospecting, habitat structures, scientific measuring devices, soil borings, or survey activities.

Structure description, dimensions and volumes. Complete Sections 10A-C as applicable.

Expansion of an existing structure or new structure on a pond (see Sample Drawings 4 and 5)
 ➔ Complete Section 10J for outlets and Section 17 for water control structures.
 ➔ Provide elevations, cross-sections and profiles of outlets, dams, dikes, water control structures and emergency spillways to nearest water bodies.

PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

Which best describes your proposed water body use (check all that apply)
 mining recreation storm water retention basin wastewater basin wildlife other

Water source for lake/pond
 groundwater natural springs Inland Lake or Stream storm water runoff pump sewage other

Location of the lake/basin/pond floodplain wetland stream (inline) upland

Maximum dimensions (ft) length width depth	Maximum Area: <input type="checkbox"/> acres <input type="checkbox"/> sq ft
---	---

Has there been a hydrologic study performed on the site? No Yes ➔ If Yes, provide a copy.

Has the DEQ conducted a wetland assessment for this parcel? No Yes ➔ If Yes, provide a copy or WIP number.

Has a professional wetland delineation been conducted for this parcel? No Yes ➔ If Yes, provide a copy with data sheets.

Spoils Disposal	Dredged or excavated spoils will be placed <input type="checkbox"/> on-site <input type="checkbox"/> landfill <input type="checkbox"/> USACE confined disposal facility <input type="checkbox"/> other upland off-site
	For disposal, provide a ➔ Detailed spoils disposal area location map and site plan with property lines. ➔ Letter of authorization from property owner of spoils disposal site, if disposed off-site.

WATER RESOURCES DIVISION
AUG 25 2014



12 Activities That May Impact Wetlands (See Sample Drawings 8 & 9). Complete other Sections as applicable. WATER RESOURCES DIVISION
AUG 25 2014

- Locate your site and wetland information with the DEQ Wetlands Map Viewer at www.mcqi.state.mi.us/wetlands/
- For information on the DEQ's Wetland Identification Program (WIP) visit www.mi.gov/wetlands.
 - ⇒ Provide a detailed site plan with labeled property lines, upland and wetland areas, and dimensions and volumes of wetland impacts.
 - ⇒ Complete the wetland dredge and wetland fill dimension information below for each impacted wetland area.
 - ⇒ Attach tables for multiple impact areas or activities.
 - ⇒ Attach at least one cross-section for each wetland dredge and/or fill area; show wetland and upland boundaries on the cross-section.

Has the DEQ conducted a wetland assessment for this parcel?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	⇒ If Yes, provide a copy of WIP number:
Has a professional wetland delineation been conducted for this parcel?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	⇒ If Yes, provide a copy with data sheets
Is there a recorded DEQ easement on the property?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	⇒ If Yes, provide the easement number
Did the applicant purchase the property before October 1, 1980?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	⇒ If Yes, provide documentation.
Is any grading or mechanized land clearing proposed?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	⇒ If Yes, label the locations on the site plan.
Has any of the proposed grading or mechanized land clearing been completed?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	⇒ If Yes, label the locations on the site plan

Proposed Activity	<input type="checkbox"/> boardwalk or deck (Section 10I)	<input type="checkbox"/> bridges and culverts (Section 14)	<input type="checkbox"/> designated environmental area
	<input checked="" type="checkbox"/> dewatering	<input type="checkbox"/> draining surface water	<input type="checkbox"/> driveway / road
	<input type="checkbox"/> fences (Section 10L)	<input checked="" type="checkbox"/> fill or dredge	<input checked="" type="checkbox"/> restoration
	<input type="checkbox"/> septic system	<input checked="" type="checkbox"/> stormwater discharge (Section 10J)	<input type="checkbox"/> other

FILL	Dimensions maximum length (ft) 1,300 maximum width (ft) 40	Area <input checked="" type="checkbox"/> acres <input type="checkbox"/> sq ft ~3	Average depth (ft) 5	Volume (cu yd) 8,000
	DREDGE	Dimensions maximum length (ft) maximum width (ft)	Average depth (ft)	Volume (cu yd)

PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

Spoils Disposal	Dredged or excavated spoils will be placed in: <input type="checkbox"/> on-site landfill <input type="checkbox"/> USACE confined disposal facility <input type="checkbox"/> other upland off-site
	For disposal, provide a: <ul style="list-style-type: none"> ⇒ Detailed spoils disposal area location map and site plan with property lines. ⇒ Letter of authorization from property owner of spoils disposal site, if disposed off-site.

Septic System	The proposed project will be serviced by: <input type="checkbox"/> public sewer <input type="checkbox"/> private septic system ⇒ Show system on plans.	If a private septic system is proposed, has an application for a permit been made to the County Health Department? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, has a permit been issued? <input type="checkbox"/> No <input type="checkbox"/> Yes ⇒ Provide a copy of the permit.
---------------	--	---

Describe the wetland impacts, the proposed use or development, and the alternatives considered:

Does the project impact more than 1/3 acre of wetland? No Yes
⇒ If Yes, submit a Mitigation Plan with the type and amount of mitigation proposed. For more information go to www.mi.gov/wetlands

Describe how impacts to waters of the United States will be avoided and minimized:

Describe how the impact to waters of the United States will be compensated. OR Explain why compensatory mitigation should not be required for the proposed impacts.



13 Floodplain Activities (See Sample Drawing 5 and others. Complete other applicable sections.)

- For more information go to www.mi.gov/floodplainmanagement. This site also lists the projects and requirements for an expedited floodplain review under "Expedited Review Information for Minor Floodplain Projects."
- Examples of projects proposed within the non-floodway portions of the 100-year-floodplain which may qualify for an expedited review: Open pile decks and boardwalks; residences, commercial/industrial facilities, garages and accessory structures; parking lots; pavilions, gazebos, large community playground structures; residential swimming pools
- Examples of projects proposed within the floodway portions of the floodplain which may qualify for an expedited review: Open pile decks and boardwalks, (non-enclosed) that are anchored to prevent floatation and that do not extend over the bed and bank of a watercourse; parking lots constructed at grade or resurfacing that is no more than 4 inches above the existing grade; dry hydrants that do not require fill placement; scientific structure such as staff gauges, water monitoring devices, water quality testing devices, and core sampling devices which meet specific design criteria and fish structures that meet specific design criteria.
- For expedited review include:
 - ⇒ Photographs of the work site labeled to identify what is being shown and with the direction of the photo clearly indicated. Include photographs of any river or stream adjacent to the project.
 - ⇒ A letter or statement from the local unit of government acknowledging your proposed application. See the website for sample wording.
- A hydraulic analysis or hydrologic analysis may be required to fully assess floodplain impacts.
- The state building code requires an Elevation Certificate for any building construction or addition in a floodplain. A sample form can be found at www.fema.gov/nfip/elvinst.shtm.
 - ⇒ Attach additional sheets or tables for multiple proposed floodplain activities and provide hydraulic calculations.
 - ⇒ Show reference datum used on plans.

Proposed Activity	<input checked="" type="checkbox"/> fill <input type="checkbox"/> excavation or cut <input type="checkbox"/> other	100-year floodplain elevation (ft) (if known) <i>589.3</i> Datum <input checked="" type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> other
-------------------	---	---

Site is 0-5 feet above ordinary high water mark (OHWM) OR observed water level. Date of observation (M/D/Y) *8/7/2014 - 584.68*

Fill volume below the 100-year floodplain elevation (cu yds) <i>TBD</i>	Compensating cut volume below the 100-year floodplain elevation (cu yds) <i>TBD</i>
---	---

Type of construction is <input type="checkbox"/> residential <input type="checkbox"/> garage/pole barn <input type="checkbox"/> non residential <input type="checkbox"/> other
Construction is <input type="checkbox"/> new <input type="checkbox"/> addition <input type="checkbox"/> sea/ice/rock <input type="checkbox"/> public sewer <input type="checkbox"/> private septic <input type="checkbox"/> other
Lowest adjacent grade (ft): existing proposed datum <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 other

PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

WATER RESOURCES DIVISION
AUG 25 2014

Buildings and/or Additions

Foundation type	<input type="checkbox"/> basement <input type="checkbox"/> concrete slab on grade <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other	Foundation type	<input type="checkbox"/> basement <input type="checkbox"/> concrete slab on grade <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other
Foundation floor elevation (ft)		Foundation floor elevation (ft)	
Height of crawl space/basement from finished foundation floor to bottom of floor joists (ft)		Height of crawl space/basement from finished foundation floor to bottom of floor joists (ft)	
Elevation of 1st floor above basement floor/crawl space (ft)		Elevation of 1st floor above basement floor/crawl space (ft)	
For enclosed areas below the flood elevation, such as a crawl space, garages and accessory structures:			
Area of proposed foundation (sq ft)			
Elevation of proposed enclosed area (ft) datum <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> other			
Number of flood vents	net opening of each vent (sq inches)	lowest elevation of flood vents (ft)	



WATER RESOURCES DIVISION

AUG 25 2014

- 14 Bridges and Culverts** Including Foot and Cart Bridges. (See EZ Guides and Sample Drawings 5, 14A, 14B, 14C, 14D.)
- Complete other applicable Sections, including 10A-C.
 - A hydraulic analysis or hydrologic analysis may be required to fully assess impacts. → Attach hydraulic calculations.
 - High Water Elevation - describe reference point and highest known water level above or below reference point and date of observation. → Attach additional sheets for multiple bridges and/or culverts.
 - Provide detailed site-specific drawings of existing and proposed Plan and Elevation View at a scale adequate for detailed review.
 - Provide all information in the boxes below; do not write in a reference to plan sheets. Show reference datum used on plans.

Stream Information	The site has a high water elevation (ft) <input type="checkbox"/> above or <input type="checkbox"/> below the Reference Point of _____ Date observed _____	
	Reference datum used <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> IGLD 85 (Great Lakes coastal areas) <input type="checkbox"/> other _____	
	Average stream width (ft) at the ordinary high water mark (OHWM) outside the influence of any ponding or scour holes around the structure	Upstream _____ Downstream _____
	Cross-sectional area of primary channel (sq ft) _____ (See Sample Drawing 14C for more information)	
	The width of the stream where the water begins to overflow its banks. Bankfull width (ft) _____	
	The invert of the stream 100-feet from structure (ft)	Upstream _____ Downstream _____
	Is the existing culvert perched? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, provide a profile of the channel bottom at the high and low points for a distance of 200 feet upstream and downstream of the culvert.	

Complete this form for each bridge / culvert location.

	Existing	Proposed
Bridge	Number of bridge spans	
	Bridge type (concrete box beam, concrete I-beam, timber, etc.)	
	Bridge span (length perpendicular to stream) (ft)	
	Bridge width (parallel to stream) (ft)	
	Bottom of bridge beam (ft)	Upstream _____ Downstream _____
	Stream invert elevation at bridge (ft)	Upstream _____ Downstream _____
	Bridge rise from bottom of beam to stream bed	Upstream _____ Downstream _____

PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

Culvert	Number of culverts	
	Culvert type (arch, box, pipe, etc.)	
	Culvert material (concrete, corrugated metal, plastic, etc.)	
	Culvert length (ft)	
	Culvert <input type="checkbox"/> width <input type="checkbox"/> diameter (ft)	
	Culvert height prior to any burying (ft)	
	Depth culvert will be buried (ft)	
	Elevation of culvert crown (ft)	Upstream _____ Downstream _____
	Higher elevation of <input type="checkbox"/> culvert invert OR <input type="checkbox"/> streambed within culvert (ft)	Upstream _____ Downstream _____

Complete for both Bridges and Culverts	Entrance design (mitered, projecting, wingwalls, etc.)	
	Total structure waterway opening above streambed (sq ft)	
	Total structure waterway area below the 100-year elevation (sq ft) (if known)	
	Elevation of road grade at structure (ft)	
	Elevation of low point in road (ft)	
	Distance from low point of road to mid-point of bridge crossing (ft)	
	Length of approach fill from edge of bridge/culvert to existing grade (ft)	

A Licensed Professional Engineer may certify that your project will not cause a harmful interference for a range of flood discharges up to and including the 100-year flood discharge. The "Required Certification Language" is found under "forms" on the "maps, forms and documents" link from the www.mi.gov/jointpermit page or a copy may be requested by phone, email, or mail. A hydraulic report supporting this certification may also be required.

Is Certification Language attached? No Yes



15 Stream, River, or Drain Construction, Relocation and Enclosure Activities

- Complete Section 10C for riprap activities.
- If side casting or other proposed activities will impact wetlands or floodplains, complete Sections 12 and 13, respectively.
 - ⇒ Provide a scaled overall site plan showing existing lakes, streams, wetlands, and other water features; existing structures; and the location of all proposed structures and land change activities.
 - ⇒ Provide scaled cross-section (elevation) drawings necessary to clearly show existing and proposed conditions.
 - ⇒ For activities on legally established county drains, provide original design and proposed dimensions and elevations.

Stream Information	Water elevation (ft) datum <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> IGLD 85 (Great Lakes coastal areas) <input type="checkbox"/> other ⇒ Show elevation on plans with description.
	Dimensions (ft) of existing stream/drain channel (ft) length width depth
	Existing channel average water depth in a normal year (ft)

Proposed Activity enclosure improvement maintenance new drain relocation wetlands other

If an enclosed structure is proposed, check material type concrete corrugated metal plastic other

Dimensions (ft) of the structure: diameter length Volume of fill (cu yds)

Will old/enclosed stream channel be backfilled to top of bank grade? No Yes

Length of channel to be abandoned (ft) Volume of fill (cu yds)

Dimensions (ft) of improved, maintained, new, relocated or wetland stream/drain channel. length width depth Volume of dredge/excavation (cu yds)

How will slopes and bottom be stabilized? Proposed side slopes (vertical/horizontal)

Spoils Disposal	Dredged or excavated spoils will be placed <input type="checkbox"/> on-site <input type="checkbox"/> landfill <input type="checkbox"/> USACE confined disposal facility <input type="checkbox"/> other upland and off-site
	For disposal, provide a Detailed spoils disposal area location map and site plan with property lines. Center of authorization from property owner of spoils disposal site, if disposed off-site.

PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

WATER RESOURCES DIVISION
AUG 25 2014

16 Drawdown of an Impoundment

- If wetlands will be impacted, complete Section 12.

Type of drawdown <input type="checkbox"/> over winter <input type="checkbox"/> temporary <input type="checkbox"/> one-time event <input type="checkbox"/> annual event <input type="checkbox"/> permanent (dam removal) <input type="checkbox"/> other		
Reason for drawdown		
Has there been a previous drawdown? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, provide date (M/D/Y)	Previous DEQ permit number, if known	
Does waterbody have established legal lake level? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Not Sure	Dam ID Number, if known	
Extent of vertical drawdown (ft)	Impoundment design head (ft)	Number of adjoining or impacted property owners
Date drawdown would start (M/D/Y)	Date drawdown would stop (M/D/Y)	Rate of drawdown (ft/day)
Date refilling would start (M/D/Y)	Date refill would end (M/D/Y)	Rate of refill (ft/day)
Type of outlet discharge structure to be used <input type="checkbox"/> surface <input type="checkbox"/> bottom <input type="checkbox"/> mid-depth	Impoundment area at normal water level (acres)	Sediment depth behind impoundment discharge structure (ft)



17 Dam, Embankment, Dike, Spillway, or Control Structure Activities (See Sample Drawing 15)

- For more information go to www.mi.gov/damsafety. If wetlands will be impacted, complete Section 12.
- Information on removing a dam is available at www.mi.gov/damsafety and following the Related Link –Dam Management.
 - ⇒ Attach detailed signed and sealed engineering plans for a Part 315 dam repair, dam alteration, dam abandonment, or dam removal.
 - ⇒ Part 315 Dam Safety application fees are added to all other application fees.
 - ⇒ Mail applications for dams regulated under Part 315 to DEQ, WRD, P.O. BOX 30458, LANSING, MI 48909-7958, attention Dam Safety.

WATER RESOURCES DIVISION
AUG 25 2014

Proposed Activity abandonment alteration enlargement of an existing dam
 removal repair reconstruction of a failed dam
 new dam construction other

Dam ID Number, if known _____ Type of outlet discharge structure surface bottom mid-depth

Will proposed activities require a drawdown of the waterbody to complete the work? No Yes ⇒ If Yes, complete Section 16.

Structural height (difference between embankment top elevation and streambed elevation at downstream embankment toe) (ft) _____

Hydraulic Height (difference between design flood elevation and streambed elevation at downstream embankment toe) (ft) _____ Impoundment size at design flood elevation (acres) _____

Does dam meet the criteria for regulation under Part 315? (i.e. hydraulic height of 6 feet or more and an impoundment size at the design flood of 5 surface acres or more) No Yes

Dredging/excavation volume (cu yd) _____ Fill volume (cu yd) _____ Riprap volume (cu yd) _____

Will a water diversion during construction be required? No Yes

If Yes, describe how the stream flow will be controlled through the dam construction area during the proposed project activities:
 PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

Complete the following for a new dam, reconstruction of a failed dam or enlargement of an existing dam.
 For Part 315 regulated dams, the following must be attached:

- ⇒ Site-specific conceptual plans of the dam for resource impact review (An engineering report and detailed engineering plans are not required until the project has been determined to be permissible).
- ⇒ A description and evaluation of the loss of natural resources associated with the project.
- ⇒ A description of the natural resources that are associated with or created by the impoundment and how they offset the natural resources lost by the creation of the impoundment.
- ⇒ An assessment of all known existing and potential adverse effects within the scope of the project.

Embankment dimensions	length (ft)	top width (ft)	bottom width (ft)	slopes (vertical / horizontal)	Upstream Downstream
-----------------------	-------------	----------------	-------------------	--------------------------------	------------------------

Have soil borings been taken at dam location? No Yes ⇒ If Yes, attach results.

Do you have flowage rights to all proposed flooded property at the design flood elevation? No Yes ⇒ If No, provide a letter of authorization from the property owner.

Applications for Part 315 regulated dam removal projects must also include the following:
 An evaluation of the capacity of the remaining structure to pass flood flows.
 An evaluation of the quantity and quality of the sediments behind the impoundment.
 A description of the methods to be employed to control sediments.
 An assessment of all known existing and potential adverse impacts within the scope of the project.



18 Utility Crossings (See Sample Drawings 12 and 13, and EZ Guide)

- If side casting is proposed, complete Sections 10A and 10B. If spoils will be placed in or impact wetlands, complete Section 12.
- ➔ Attach additional sheets or tables with the requested information as needed for multiple crossings.
- ➔ For wetland crossings using the open trench method show clay plugs at the wetland/upland boundaries on the plans.

Crossing of Inland Lake or Stream floodplain Great Lake wetlands (also complete Section 12)

What method will be used to construct the crossings? directional boring jack and bore open trench plow / knife flume

Utility Type	Number of lake or stream crossings	Number of wetland crossings	Pipe diameter with casing (in)	Pipe length per crossing (ft)	Distance below streambed or wetland (in)	Trench width (ft)
<input type="checkbox"/> sanitary sewer						
<input type="checkbox"/> storm sewer						
<input type="checkbox"/> watermain						
<input type="checkbox"/> cable						
<input type="checkbox"/> electric						
<input type="checkbox"/> fiber optic cable						
<input type="checkbox"/> oil/gas pipeline						

19 Marina Construction (See Sample Drawing 21)

- For more information go to www.mdeq.com/marinas
- Marinas located on the Great Lakes, including Lake St. Clair, may be required to secure leases or conveyances from the state of Michigan to place structures on the bottomlands. The conveyance is necessary in applications submitted before the Joint Permit Application can be determined complete.
- ➔ Fully complete Section 10 E. For multiple structures provide a table with the requested information.
- ➔ Enclose a copy of any current pump-out agreement with another marina facility, if on-site sanitary pump out facilities are not available.
- ➔ Attach a copy of the property legal description, mortgage survey, or a property boundary survey to your application.
- ➔ The WRD may require a riparian interest area (RIA) estimate survey, sealed by a licensed surveyor, in order to determine whether the proposed project will adversely impact riparian rights. Include any available sealed RIA estimate survey and/or written authorizations from affected adjoining riparian owners with your application.

PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

WATER RESOURCES DIVISION
AUG 23 2014

Proposed Marina Activity New construction Expansion Reconfiguration

Do you have an existing Great Lake Conveyance? No Yes For more information visit www.mi.gov/deqgreatlakes.

Are sanitary pump-out facilities available? No Yes Is there a pump out agreement? No Yes If Yes, provide a copy.

Marina Description	Current Count	Final Count
Number of boat slips/wells (do not include broadside dockage or mooring buoys)		
Lineal feet of broadside dockage		
Maximum number of boats at broadside dockage		
Number of mooring buoys		
Number of launch ramps/lanes		



20 Critical Dune Areas and High Risk Erosion Areas (See Sample Drawings 19 and 20)

Critical Dune Areas (See Sample Drawing 20)

- Although not required, submitting PHOTOGRAPHS of the site may provide for a faster application review.
- For more information go to www.mi.gov/jointpermit, select "Sand Dune Protection" under "Related Links."
- All property boundaries and proposed structure corners, including decks, septic systems, water wells, driveways, grading, and terrain alteration locations must be staked before the WRD site inspection.
- Scaled overhead and cross-section plans must include all property boundaries, locations, and dimensions of all existing structures and impacted areas, and all proposed structures, terrain alterations, and construction access. Cross-sections must show existing and proposed grades, including foundations.
- Construction in critical dune areas on slopes greater than 33 percent (1 vertical: 3 horizontal) is prohibited without a special exception.
- Construction in critical dune areas on slopes that measure from 25 percent (1 vertical: 4 horizontal) to less than 33 percent requires sealed plans prepared by a registered architect or licensed professional engineer.

WATER RESOURCES DIVISION

High Risk Erosion Areas (See Sample Drawing 19)

- For more information go to www.mi.gov/jointpermit, select "HREA" under "Related Links."
- All property boundaries, proposed structure corners, and septic system locations must be staked before the WRD site inspection.
- Scaled overhead plans must include all property boundaries, and the location and dimensions of all structures and septic systems must be included.
- Additional information, including the building construction plans, may be required to complete the application review.

AUG 25 2014

Critical Dune Areas	Parcel dimensions (ft) width depth		Date project staked (M/D/Y)	
	Property is a <input type="checkbox"/> platted lot <input type="checkbox"/> unplatted parcel		Year current property boundaries created	
	Dune habitat present in Building Site and access route (check all that apply): <input type="checkbox"/> Wooded <input type="checkbox"/> Open Dune <input type="checkbox"/> Shrubs			
	<input type="checkbox"/> Bare Sand <input type="checkbox"/> Lakefront Lot <input type="checkbox"/> MNFI Community if known: _____			
	Type of construction activities <input type="checkbox"/> addition <input type="checkbox"/> driveway <input type="checkbox"/> garage <input type="checkbox"/> new home <input type="checkbox"/> renovation <input type="checkbox"/> septic <input type="checkbox"/> deck(s) <input type="checkbox"/> other			
	<input type="checkbox"/> Provide a sand relocation plan with location and dimensions of disposal area. Indicate <input type="checkbox"/> on-site OR <input type="checkbox"/> off-site			
	If on-site show location and how far it is from the structure. Indicate the depth of the disposal area on the plans.			
	<input type="checkbox"/> Provide the permit or letter from the County Enforcing Agent stating the project complies with Part 91 (Soil Erosion and Sedimentation Control).			
	The proposed project will be serviced by <input type="checkbox"/> public sewer <input type="checkbox"/> private septic system			
	⇒ On the plans, show the location and dimensions of the private septic system.			
	If a private septic system is proposed, has a permit been issued by the health department? <input type="checkbox"/> No <input type="checkbox"/> Yes			
	⇒ If Yes, provide a copy of the permit for all Critical Dune Area projects.			
<input type="checkbox"/> Provide a copy of the vegetation assurance letter.				
<input type="checkbox"/> Provide a re-vegetation plan, including # _____ of trees to be removed and # _____ of trees to be replanted.				
Proposed Utility Installation		Proposed New Construction		
Utility Installation Method		Foundation type <input type="checkbox"/> basement		
<input type="checkbox"/> directional bore <input type="checkbox"/> plowing in		<input type="checkbox"/> concrete slab <input type="checkbox"/> pilings		
<input type="checkbox"/> open trench <input type="checkbox"/> other		<input type="checkbox"/> crawl space <input type="checkbox"/> other		
⇒ Show utility locations and dimensions on the site plan.		Area of existing structure (sq ft)		
⇒ Show construction access route on the site plan.		Area of proposed structure (sq ft)		
⇒ Show existing and proposed grades on the cross-section.		Area of existing deck (sq ft)		
⇒ Show locations of vegetation to be removed on the site plan.		Area of proposed deck (sq ft)		
Provide the following information for special use projects:				
(a) Lot size, width, density, and front and side setbacks.				
(b) Storm water drainage that provides for disposal of drainage water without serious erosion.				
(c) Methods for controlling erosion from wind and water.				
(d) Re-stabilization plan.				
(e) Environmental Impact Statement.				

PRELIMINARY DRAFT FOR DISCUSSION PURPOSES

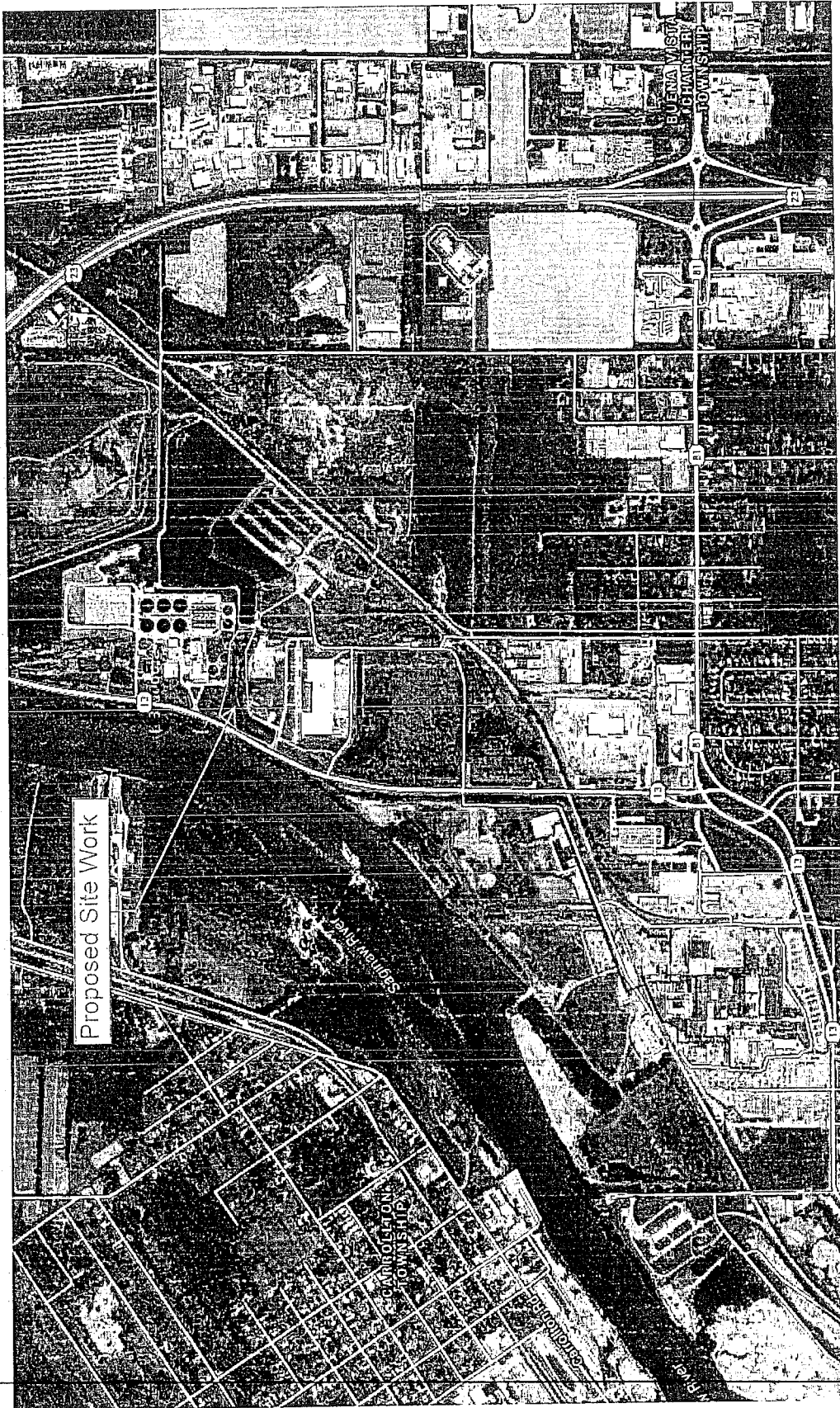


High Risk Erosion Areas	Parcel dimensions (ft) width depth		Date project staked (M/D/Y)		
	Existing Structure Information			Proposed New Construction	
	Foundation type <input type="checkbox"/> basement		Foundation type <input type="checkbox"/> basement		
	<input type="checkbox"/> concrete slab <input type="checkbox"/> pilings		<input type="checkbox"/> concrete slab <input type="checkbox"/> pilings		
	<input type="checkbox"/> crawl space <input type="checkbox"/> other		<input type="checkbox"/> crawl space <input type="checkbox"/> other		
	Material above foundation wall		Material above foundation wall		
	<input type="checkbox"/> block <input type="checkbox"/> log <input type="checkbox"/> stud frame <input type="checkbox"/> other		<input type="checkbox"/> block <input type="checkbox"/> log <input type="checkbox"/> stud frame <input type="checkbox"/> other		
	Siding material		Siding material		
	<input type="checkbox"/> block <input type="checkbox"/> vinyl <input type="checkbox"/> wood <input type="checkbox"/> other		<input type="checkbox"/> block <input type="checkbox"/> vinyl <input type="checkbox"/> wood <input type="checkbox"/> other		
	Area of the foundation, excluding attached garage (sq ft)		Area of the foundation, excluding attached garage (sq ft)		
Area of the garage foundation (sq ft)		Area of the garage foundation (sq ft)			
If renovating or restoring an existing structure, indicate the renovation or restoration cost \$					
Current structure replacement value \$					
Tax assessed value of existing structure excluding land value \$			Assessment Year		
Provide the number of individual living units in the proposed building					

**PRELIMINARY DRAFT FOR
DISCUSSION PURPOSES**

www.mdeq.state.mi.us

AUG 25 2014

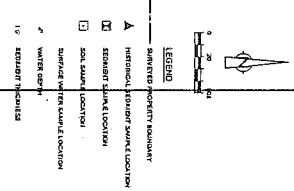
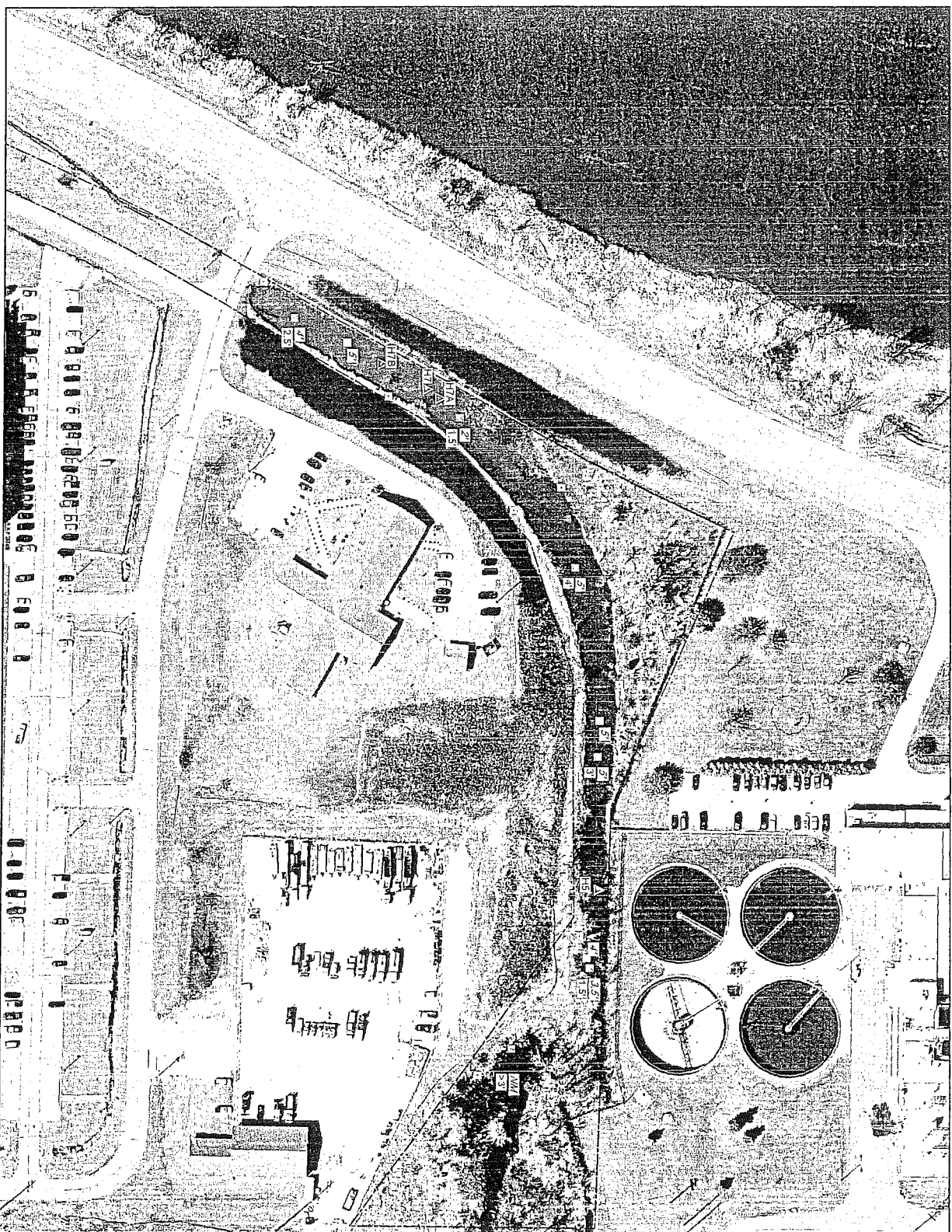


TER RESOURCES DIVISION

AUG 25 2014



IRCES DIVISION
2014



SOURCE INFORMATION	
SCALE REFERENCE	
THIS MAP REQUIRES THE FOLLOWING ADJUST SOIL EQUIPMENT	
<p>RACER TRUST SAGINAW MODULAR INDUSTRIAL LAND SAGINAW, MICHIGAN</p> <p>NORTH DITCH WATER DEPTH AND SEDIMENT THICKNESS</p>	
<p>CONESTOGA-HOVERS & ASSOCIATES</p>	

<p>AMERICAN WATER FILLS BODIES AND IS THE LEADING INTERNATIONAL FERTILIZER MANUFACTURER</p>	
Project Number	1000000000
Client	CONESTOGA-HOVERS & ASSOCIATES
Scale	1" = 40'
Project Date	NOVEMBER 2013
Map Date	NOVEMBER 2013
Map Title	MEMORANDUM Figure 4
Map Number	58500-702

2013 05/14/2014 10:00 AM 10/13/2014

AUG 25 2014



PHOTO 5: NORTH DITCH (7/2013)



PHOTO 6: NORTH DITCH NEAR SECONDARY POND (7/2013)

SITE PHOTOGRAPHS
NORTH DITCH
NODULAR INDUSTRIAL LAND
SAGINAW, MI



PHOTO 7: NORTH DITCH - LOOKING NORTHEAST FROM DRIVEWAY (9/2013)



PHOTO 8: NORTH DITCH – OUTFALL 22 DISCHARGE LOCATIONS (5/2014)

WATER RESOURCES DIVISION

AUG 25 2014

SITE PHOTOGRAPHS
NORTH DITCH
NODULAR INDUSTRIAL LAND
SAGINAW, MI



WATER RESOURCES DIVISION
AUG 25 2014

PHOTO 1: NORTH DITCH - LOOKING NORTHEAST FROM DRIVEWAY (4/2013)

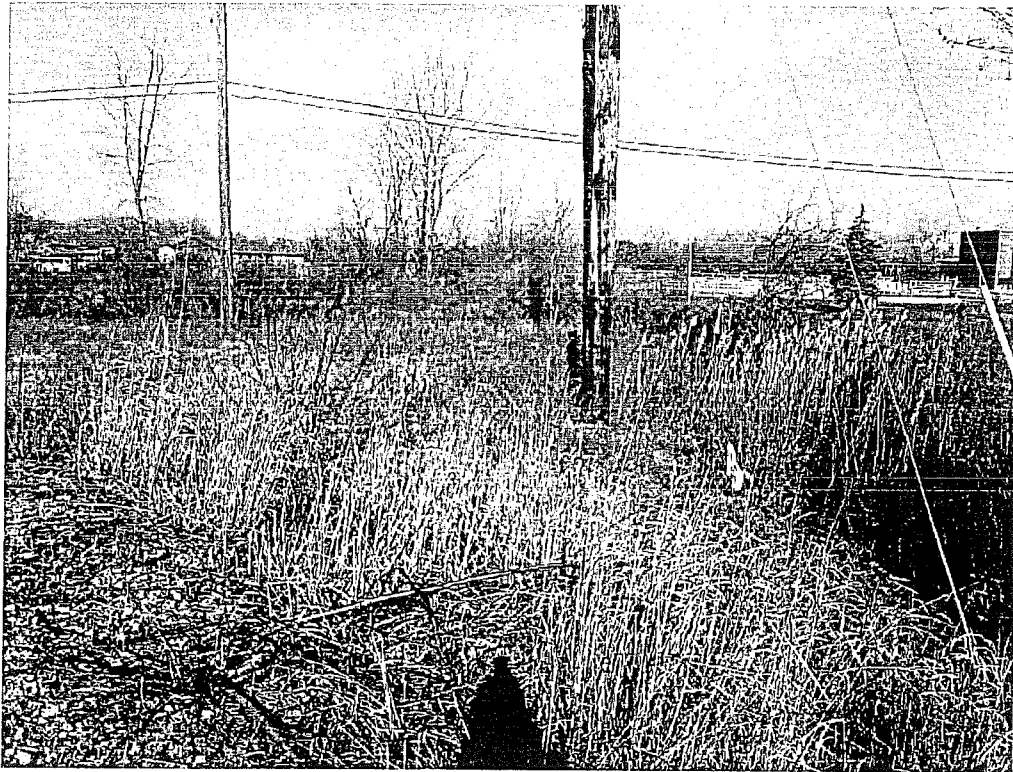


PHOTO 2: NORTH DITCH - MIDDLE (4/2013)

SITE PHOTOGRAPHS
NORTH DITCH
NODULAR INDUSTRIAL LAND
SAGINAW, MI



PHOTO 3: NORTH DITCH LOOKING NORTH FROM TRICAP PARKING LOT (4/2013)



PHOTO 4: NORTH DITCH FROM SECONDARY POND LANE LOOKING WEST (4/2013)

WATER RESOURCES DIVISION

AUG 25 2014

SITE PHOTOGRAPHS
NORTH DITCH
NODULAR INDUSTRIAL LAND
SAGINAW, MI

AUG 25 2006



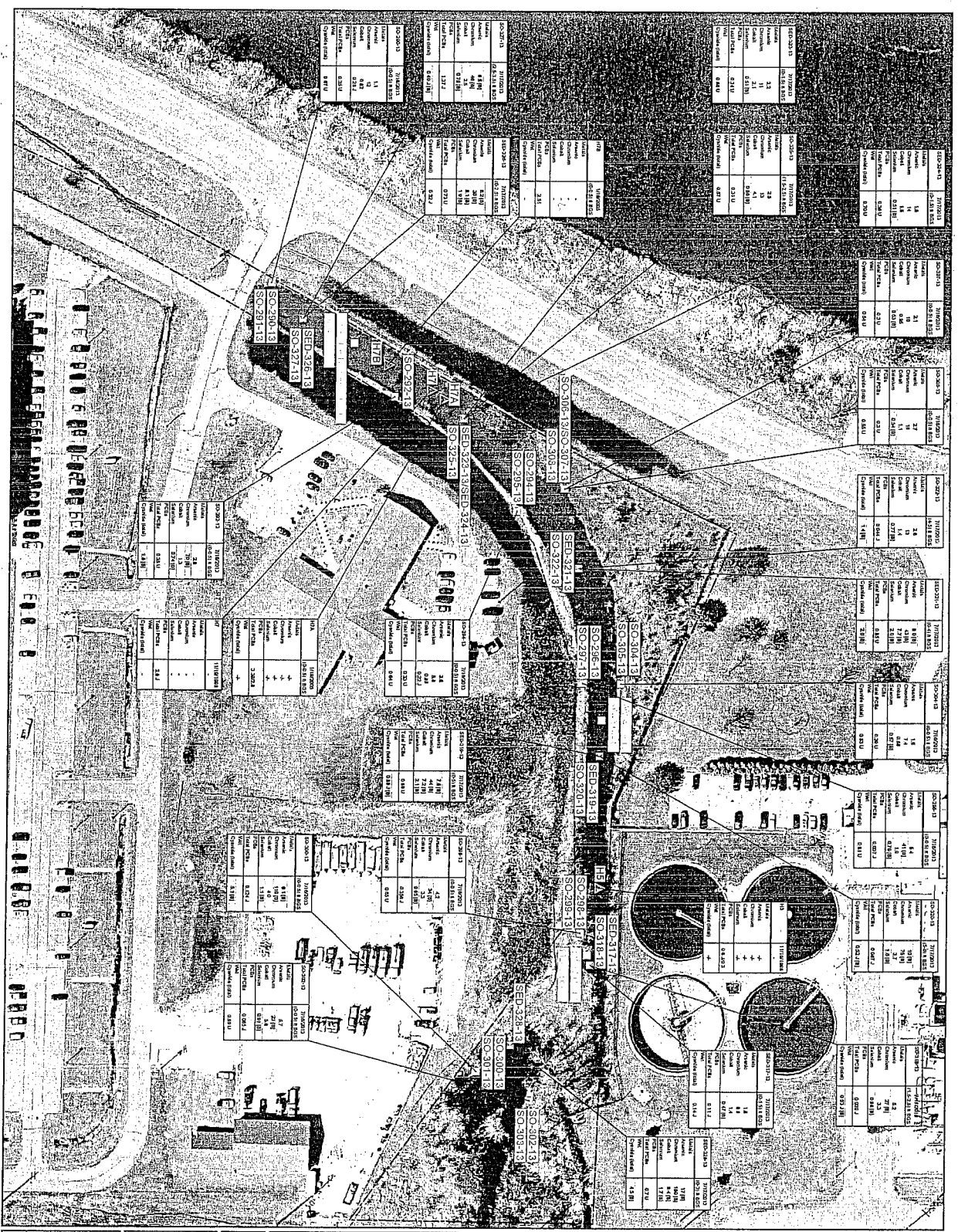
NORTH DITCH AFTER RAINFALL EVENT - FALL 2006. PHOTOGRAPH TAKEN FROM THE DRIVEWAY INTO THE SUPPLIER PARK OFF OF VETERANS MEMORIAL PARKWAY LOOKING TO THE NORTHEAST.

figure 2

NORTH DITCH - FALL 2006
RACER TRUST
SAGINAW NODULAR INDUSTRIAL LAND
Saginaw, Michigan



4177 2 E 50W



<p>LEGEND</p> <ul style="list-style-type: none"> ▲ INTERSECTION POINT □ RESIDENTIAL LOT □ SOLID WASTE LOT □ SHALLOW WASTE LOT 		<p>SCALE VERIFICATION</p> <p>THIS MAP WAS DRAWN BY THE CONSULTANT AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.</p>
<p>PROJECT INFORMATION</p> <p>RACER TRUST SAGINAW MODULAR INDUSTRIAL LAND SAGINAW, MICHIGAN</p> <p>NORTH DITCH SEGMENT AND SOIL SUMMARY OF EXCEEDANCES</p> <p>COMETOGA-NOVENS & ASSOCIATES</p>		<p>DATE</p> <p>11/11/2011</p>
<p>PROJECT LOCATION</p> <p>4177 2 E 50W</p>	<p>PROJECT NUMBER</p> <p>58500-702</p>	<p>DATE</p> <p>NOVEMBER 2011</p>
<p>PROJECT CLIENT</p> <p>MEMPHIS</p>	<p>PROJECT TITLE</p> <p>MEMPHIS Figure 3</p>	<p>DATE</p> <p>NOVEMBER 2011</p>