## FOR GUIDANCE USE ONLY Bioengineering Project on Inland Lakes

REGULATORY REFERENCE	
Part 301. Inland Lakes & Streams Minor Permit Project Category 1	FEE
Part 501. Iniand Lakes & Streams Minor Permit Project Category 1	
	\$100
GENERAL GUIDANCE	
<ul> <li>You must answer True to all of the following statements for application to qualify as a minor permit, and to use this</li> <li>The project must be located on an inland lake shoreline and the project shall not to exceed 500 linear feet in</li> <li>Viable plant material must be plant species native to Michigan, and engineered materials shall be made of i</li> <li>The project only includes excavation and filling necessary to establish a stable slope and place bioengineered along the shoreline</li> <li>Riprap used shall not cover more than 25% of the length of the project, and shall be &lt; 24 inches in diameter</li> <li>Temporary wave breaks shall not be place more than 5 feet from the shoreline, and must be constructed an with biodegradable materials</li> <li>Existing lake shore height does not exceed 3 feet, project does not alter or destroy existing wetland or expansion.</li> <li>The longest unobstructed distance across the lake is more than one mile</li> </ul>	n length inert plant fiber ed structures nd anchored d beach areas.
<ul> <li>The proposed project is located adjacent to a heavily used boating access site or marina</li> </ul>	
The proposed project is located on an unprotected point, headland, or island where wind, ice, and wave e	nergy is nign
APPLICATION REQUIREMENTS	
Note: On-line users can go to the appropriate section or drawing by pressing the indicated button	
The following Sections of the Permit Application must be completed:	
Sections 1-9	
If you answer Yes to any of these questions, complete the section of the application indicated.	
Will you be placing fill along the shoreline?	10A
Will you be excavating the shoreline, or watercourse?	10B
Will riprap be placed along the shoreline?	10C
Include the following drawing: Include the following site plan and cross-section dra	awing:
Site Location Map Bio-Log Site Plan Bio-Log Cro	ss-Section

Please include the following photos:

Take photos looking along the shoreline at 50 ft. intervals:





Take photos of the *land* adjacent to the shoreline:





Applicant

Property Boundary

Property Boundary

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U.S. Army Corps of Engineers Detroit District Office Phone: 313-226-2218, Fax: 313-226-6763 Web site: <u>www.lre.usace.army.mi</u>l



## **Joint Permit Application**

For work in Inland Lakes and Streams, Great Lakes, Wetlands, Floodplains, Dams, High Risk Erosion Areas and Critical Dune Areas www.mi.gov/jointpermit

What is the purpose of the Joint Permit Application?	<ul> <li>This Joint Permit Application was developed to facilitate the state and federal permit application process administered by the Michigan Department of Environmental Quality (DEQ) and the U.S. Army Corps of Engineers (USACE).</li> <li>The Joint Permit Application is a multi-purpose application used to describe and quantify proposed activities regulated by the DEQ and/or the USACE. This application is for those activities regulated by the following Parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended by the State of Michigan.</li> <li>Part 301, Inland Lakes and Streams</li> <li>Part 302, Great Lakes Submerged Lands</li> <li>Part 303, Wetlands Protection</li> <li>Floodplain Regulatory Authority found in Part 31, Water Resources Protection</li> <li>Part 325, Shorelands Protection and Management (High Risk Erosion Areas)</li> <li>Part 353, Sand Dunes Protection and Management (Critical Dune Areas)</li> <li>The regulated activities are summarized in Appendix D. The statutes and rules are available at www.mi.gov/jointpermit.</li> <li>This application is also for those activities regulated by the USACE within the waters of the United States under Section 10, Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404, Clean Water Act of 1977 (33 U.S.C. 1344).</li> <li><u>Pre-Application Meeting</u>: This is an optional service available for activities proposed in inland lakes and streams (Part 351), wetlands (Part 303) and critical dune areas (Part 353). A pre-application meeting can answer many questions regarding whether or not a permit is required and the review process. The application form and fee schedule are available at www.mi.gov/jointpermit.</li> </ul>
How do I complete the Joint Permit Application? An accurate and complete application package is required for processing; inaccurate or missing information will delay processing.	<ul> <li>There are three parts to a complete Joint Permit Application package: <ol> <li>Application Form</li> <li>Maps and Drawings</li> <li>Fee</li> </ol> </li> <li>Follow the checklists on the following page for each part of the application package.</li> <li>When you have questions or need assistance in completing the application package refer to the following information on our Web site www.mi.gov/jointpermit or you may contact the appropriate district office through the Web site link "Who to Contact".</li> <li>Joint Permit Application Training Manual</li> <li>EZ Guides for small projects</li> <li>Acronyms in Appendix A</li> <li>Sample drawings in Appendix B</li> <li>Minor Project and General Permit Categories in Appendix C</li> <li>Fee schedule in Appendix C</li> <li>State and Federal Authority and Penalties in Appendix D</li> <li>Glossary in Appendix E</li> </ul>



Amplication	1. Application Form
Application Checklist	Complete Sections 1 through 9 of the application form.
The following website will provide township,	An authorization letter from the property owner if someone other than the property owner is signing the application.
vin provide township, range, section, latitude and longitude information: www.mcgi.state.mi.us	Complete those Sections 10 through 20 that apply to your project. Follow the instructions at the beginning of each section. For additional information, the instructions for each sample drawing in Appendix B indicate the application sections you will most likely need to complete. Complete the application form as much as possible before adding attachments. Label each attachment with the applicant's name.
/wetlands/ www.geocoder.us	Stake or flag the area for site inspection including the property corners, proposed road or driveway centerlines, and areas of proposed impacts. The site must be flagged when the application is submitted.
In each section check all boxes that apply to	2. Maps and Drawings
your project.	All maps and drawings must be black and white, legible, reproducible, and sized to 8.5" x 11". Aerial photographs do not substitute for site plans. If larger drawings or blueprints are required to show adequate detail for review, you may also submit one full size copy.
	Vicinity Map: A map to the proposed project location that includes ALL streets, roads, intersections, highways, or cross-roads to the project. Do not assume review staff knows your project location.
Show and label property lines on the	Project Site Plan: Overhead drawings to scale or with dimensions, length and width, of the proposed project are required. Show and label property lines on the site plan.
site plan. Label existing and	Cross-section drawings are required. Provide the cross-sections and profile views to scale or with dimensions, length, width, and height.
proposed contours, dimensions, excavation and/or fill on the site plans and cross sections.	Elevation data must include a description of the reference point or benchmark used and its corresponding elevation. For projects on the Great Lakes or Section 10 Waters, elevations must be provided in IGLD 85. For observed Great Lake water elevations in IGLD, visit the USACE website under "water levels". If elevations are from still water, provide the observation date and water elevation. On inland sites, elevations can use NGVD 29, NAVD 88, a local datum or an assumed bench mark.
Provide tables for multiple impact areas.	Provide descriptive photographs of the proposed work site showing vegetation if wetlands are involved or the shoreline for shore protection projects. All photographs must be labeled with your name and the date of the photograph, indicate what they show, and be referenced to the site plan. Proposed activities or structure(s) may be indicated directly on the photographs using indelible markers or ink pens. Provide aerial photographs 1:400 or larger for major projects.
	3. Fee
	Payment to the State of Michigan. Fees typically range from \$50.00 to \$4,000.00 depending on the type of project. See Appendix C of the application at the Web site link <u>www.mi.gov/jointpermit</u> to determine the appropriate fee for your project and permit application payment options to submit payment by credit card or electronic fund transfer payment. Checks may be submitted with the applkication to our district offices.
	Applications should be sent directly to the district offices. Please refer to <u>www.mi.gov/jointpermit</u> "Who to Contact" for address and/or phone number.
	Applications for dams regulated under Part 315 or from public agencies eligible to receive federal and/or state transportation funding for a project involving public roadways, non-motorized paths, airports, or related facilities should be mailed to: DEQ, WRD, P.O. BOX 30458, Lansing, MI 48909-7958.

## APPENDICES

Appendix A:	Acronyms and Abbreviations	A-1
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Appendix E:	Glossary (listed words are italicized in the application package)	E-1

Application status can be viewed on the Water Resources Division (WRD) Web site at www.deq.state.mi.us/CIWPIS. During the application period, if any information is missing from the application or if any clarification is needed regarding materials provided, the application is incomplete and staff will request the information from the applicant/agent by letter, email, fax or phone call. If a complete response is not provided within 30 days, the application will be closed. Some regulatory parts allow extensions if requested within the 30 day time frame. Once the WRD has received the information necessary for review of the project, including a thoroughly completed application, consistent drawings that have adequate detail for review and the full application fee, the file will be reviewed for final processing. A mailed postcard or a public notice will provide the file number and the telephone number of the office where the application is being processed. The review time to determine if an application is complete for processing ranges from 15 to 30 days. Technical processing times, after the application is administratively complete, may range from 60 to 90 days. Processing times will be longer if a public hearing is held. Staff from your local District/Field Office may visit the project site and may request additional information prior to a decision on the application. Application fees are not refundable or transferable.

If a federal permit will also be required, a copy of the permit application will be sent to the Detroit District Office, USACE, for processing at the federal level. Additional copies of this application form can be downloaded from the WRD Web site at www.mi.gov/jointpermit or can be photocopied from the original. If you have any questions about the permitting process or if you need to modify your application, you can contact the WRD by phone or fax at the addresses on the previous page, or email at DEQ-WRD-jointpermit@michigan.gov.

₹.	Previous USACE File Number	DEQ File Number				
AGENCY USE	USACE File Number	Date		Fee received \$		
AC		Re				
All ite Proje Dime All in	that all parts of this checklist are submitted ems in Sections 1 through 9 are completed. ect-specific Sections 10 through 20 are comp ensions, volumes, and calculations are provid formation contained in the headings for the a , site plan(s), cross sections; one set must be ication fee is attached.	leted. led for all impa appropriate Sec	ct areas. ctions (1-20) are addressed, and id	dentified attachments (+) are included.		
1 Pi	roject Location Information For Latitude	e, Longitude, ai	nd TRS info anywhere in Michigar	n see <u>www.mcgi.state.mi.us/wetlands/</u>		
Project	Address (road, if no street address)		Iunicipality ownship/Village/City)	County		
Property	y Tax Identification Number(s)	Latitude	N	Township/Range/Section (TRS) T N or S; R E or W; Sec		
Subdivis	sion/Plat and Lot Number	Longitude				
W OR Private Claim #						
2 A	pplicant and Agent Information					
Owner//	Applicant (individual or corporate name)		Agent/Contractor (firm name ar	nd contact person)		
Mailing	Address		Mailing Address			
City	State Zip Co	de	City	State Zip Code		
Contact Phone Number     Fax     Contact Phone Number     Fax						
Email			E-mail			
	Yes Is the applicant the sole owner of all ect?  → If no, attach letter(s) of authorization					
Property	y Owner's Name (If different from applicant)		Mailing Address			
Contact	Phone Number		City	State Zip Code		
3 P	roject Description					
Project	Name		Pre-Application File Number _	P		
Name o	f Water body		Date project staked/flagged			
an ir a po a str a leg Date a cha 500	nd (less than 5 acres) eam, river, ditch or drain jally established County Drain Drain was established annel/canal feet of an existing water body	a Great Lake a wetland a 100-year fl a dam a designated a designated a designated	e or Section 10 Waters loodplain d high risk erosion area d critical dune area d environmental area	Project Use         □ private         □ commercial         □ public/government         □ project is receiving federal/state         transportation funds         □ wetland restoration         □ other         All other projects.)		
Constru	ction Sequence and Methods					
loint D-	nit Application	Down 1 -644	2			
JUILLET	nit Application	Page 1 of 12	<u> </u>	EQP 2731 Revised 6/2011		





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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.							
Describe the alternatives considered to avoid or minimize resource impacts. Include factors such as, but to limited to, alternative locations, project layout and design, and construction technologies. For utility crossings include alternative routes and construction methods.							
5 Locating Your Project Site Attach a legible black and white map with a North arrow.							
5 Locating Your Project Names of roads of closest inter		egible black and	white map	with a No	orth arrow.		
Directions from main intersection to the project site, with distances from the best and nearest visible landmark and water body							
Description of buildings on the			1		ent landmarks or buil		-
How can your site be identified if there is no visible address?							
6 Easements and Other Permits							
No Yes Is there a cons		or other easemen	t, deed restri	ction, lease	e, or other encumbra	ance upor	n the property?
If yes, attach a copy. Provid	de copies of court or	ders and legal lak	e levels if ap	plicable.			
List all other federal, interstate, state, or local agency authorizations including required assurances for Critical Dune Area projects.							
Agency Type	of Approval	Number	Date Ap	blied	Date approved /	denied	Reason for denial
7 Compliance							
If a permit is issued, when will the activity begin? (M/D/Y) Proposed completion date (M/D/Y)							
<ul> <li>No Yes Has any construction activity commenced or been completed in a regulated area?</li> <li>If Yes, identify the portion(s) underway or completed on drawings or attach project specifications and give completion date(s).</li> </ul>							
If Yes, identify the portion(s) No ☐ Yes Were the reguing the regular terms of ter		-			-	mpletion	date(s).
If Yes, list the permit number							
No Yes Are you aware	e of any unresolved	violations of envir	onmental law	or litigatio	on involving the prop	erty?	
<ul> <li>If Yes, attach explanation.</li> <li>Adjacent Property Ov</li> </ul>	wners Provide	e current mailing	n addresses	Attacha	additional sheets/la	abels for	lona lists
Established Lake Board	Contact Person	Mailing A			City		State and Zip Code
Lake Association	Contact r croon	Walling,	laareee		Oity		
List all adjacents. If you own t	he adjacent lot, prov	vide the requested	l information	for the first	t adjacent parcel tha	t is not o	wned by you.
Property Owner's Name		Mailing Address	3		City		State and Zip Code
9 Applicant's Certification     Read carefully before signing.							
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.         Property Owner       Printed Name       Signature       Date							
Corp. or Public Agency / Tit	le						

U.S. Army Corps of Engineers <u>www.lre.usace.army.mil</u>

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10 Projects Impacting Inland Lakes, Streams, Great Lakes, Wetlands or Floodplains								
Complete only those see	ctions A through M applic	able to y	our proje	ct.				
If your project impacts w	vetlands also complete Se	ection 12	2. If your p	project impa	acts regulated flo	odplains	also complete Section 13.	
	cubic yards (cu yd), multip ple: (25 ft long x 10 ft wid					erage wid	th (ft) times the average de	pth (ft)
Some projects on the G	reat Lakes require an app	olication	for conve	yance prior	to Joint Permit A	Applicatio	n 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.								
	ple impact areas or multip	ole activi	ties such a	as multiple	fill areas or multi	ple culve	rts. Include your calculation	S.
Water Level Elevation								
							observation (M/D/Y)	
On a Great Lake IGLD 85 surveyed converted from observed still water elevation.								
<ul> <li>A. PROJECTS REQUIRING FILL (see All Sample Drawings)</li> <li>Attach a site plan and cross-section views to scale showing maximum and average fill dimensions with calculations.</li> <li>For multiple impact areas on a site provide a table with location, dimensions and volumes for each fill area.</li> </ul>								
Purpose Dioengineered shore protection Doat ramp Doat well Dividge or culvert Crib dock							lock	
□ r	iprap		seaw	all	swim area	oth	er	
Dimensions of fill (ft)	r - r		_	ume (cubic			below OHWM (cubic yards	s)
Length Width	Maximum Depth				yurus)	Volume		3)
Maximum water depth in fill area (ft)       Area filled (sq ft)       Will filter fabric be used under proposed fill?         Image: Constraint of the state of the								
Fill will extendfeet into the water from the shoreline and uplandfeet out of the water.								
Type of clean fill peastone% 🔄 sand% 🔲 gravel% 🖸 other								
Source of clean fill	commercial on-si	ite 🔸	If on-site	, show loca	tion on site plan.			
■ of other → If other, attach description of location.								
B. PROJECTS REQUIRING DREDGING OR EXCAVATION (See Sample Drawings)								
Refer to <u>www.mi.gov/jointpermit</u> 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/excavation area.   Purpose boat ramp   boat well bridge or culvert   maintenance dredge								
				_	_ 0			
	navigation	ро	nd/basin		other			
Dimensions (ft)     Total volume (cu yds)     Volume below OHWM (cu yds)       Length     Width     Maximum Depth     Volume (cu yds)								
Has this same area been pre	eviously dredged?	🗌 No	🗌 Yes	lf Yes, p	rovide date and	permit nu	mber:	
Will the previously dredged a	Will the previously dredged area be enlarged?       No       Yes       If Yes, when and how much?							
Is long-term maintenance dre	edging planned?	🗌 No	🗌 Yes	lf Yes, h	ow often?			
Dredge or Excavation Method Hydraulic Mechanical other								
Dredged or excavated spoils will be placed on-site landfill USACE confined disposal facility 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 vards, has proposed dredge material been tested for contaminants within the past 10 years?								
	s than 5,000 cu yards, has ➡If Yes, provide test res		-			ontaminar	nts within the past 10 years	?
C. PROJECTS REQUIRI	NG RIPRAP (See Sampl	e Drawir	ngs 2, 3, 8	, 12, 14, 22	l, and 23)			
Riprap water ward of the ord	inary high water mark: di	imensior	is (ft) len	gth	width de	epth	Volume(cu yd)	
Riprap landward of the ordina	ary high water mark: dim	ensions	(ft) leng	gth	width de	pth	Volume(cu yd)	
Type and size of riprap (inch	es)			Will filter fa	bric or pea ston	e be used	under proposed riprap?	
	gular rock 🗌 oth	ier		🗌 No 🔲	Yes, Type		· · ·	

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DEQ

<ul> <li>D. SHORE PROTECTION PROJECTS (See EZ Guides and Sample Drawings 2, 3, and 17. Complete Sections 10A, B, and/or C.)</li> <li>For bioengineering projects include the list of native plants/seeds, if available.</li> </ul>					
	eering (ft) revetment				
	replacement of an existing struc				
Proposed Toe Stone (linear feet)		Distance of project from adjacent property lines (ft)			
Distance of project from an obvious f	ixed structure (example - 50 ft fror	n SW corner of house)			
For bioengineering projects indicate t	he structure type 🔲 brush bundl	es 🗌 coir log 🔲 live stakes 🛄 tree revetment 🛄 other			
<ul> <li>E. DOCK - PIER – MOORING PIL</li> <li>Attach a copy of the property leg</li> </ul>	( , , , , , , , , , , , , , , , , , , ,	or a property boundary survey report.			
Dock Type 🔲 open pile 🗌 filler					
Is the structure within the applicant's	riparian area interest area? 🔲 N	o ☐ Yes  →Show parcel property lines on the site plan.			
Proposed structure dimensions (ft)	ength width	Use private public commercial			
Dimensions of nearest adjacent struc	ctures (ft) length width	Distance of dock from adjacent property lines (ft)			
<b>F. BOAT WELL</b> (See EZ Guide. Complete Sections 10A and 10B)					
Dimensions (ft) length width	depth	Number of boats			
Type of sidewall stabilization	ncrete 🗌 riprap 🔲 steel 🔲 vir	nyl 🔲 wood 🔲 other			
Volume of backfill behind sidewall sta	abilization (cu yd)	Distance of boat well from adjacent property lines (ft)			
G. BOAT RAMP (See EZ Guide.	Complete sections 10A, 10B, and	10C for mattress and pavement fill, dredge, and riprap)			
Type 🔲 new 🗌 existing 🔲	maintenance/improvement	Use private public commercial			
Existing overall boat ramp dimension	s (ft)	Type of construction material			
length width	depth	concrete wood stone other			
Proposed overall ramp dimensions (f length width	t) depth	Proposed ramp dimensions (ft) below ordinary high water mark length width depth			
	l skid pier dimensions (ft) width	Distance of ramp from adjacent property lines (ft)			
H. BOAT HOIST – ROOFS (See EZ Guide)					
Type 🔲 cradle 🗌 side lifter 🛄	other	Located on seawall dock bottomlands			
Hoist dimensions, including catwalks (ft) Length Width					
Area occupied, including cat walks (s	g ft)	Distance of hoist from adjacent property lines (ft)			
Permanent Roof ☐ No ☐ Yes → If Yes, how is the roof supporte	d?	Maximum Roof Dimensions (ft): length width height			
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 boar Wetlan		e project; include locations and dimensions.			
Boardwalk on pilings on fill	<b>as</b> Deck 🗌 on pilings 🔲 on fill	Floodplains           Boardwalk on pilings on fill         Deck on pilings on fill			
Dimensions (ft)	Dimensions (ft)	Dimensions (ft) Dimensions (ft)			
Length Width	Length Width	Length Width Length Width			
J. INTAKE PIPES (See Sample Di	rawing 16) or OUTLET PIPES (Se	e Sample Drawing 22)			
If outlet pipe, discharge is to 🗌 inlar	nd lake 🔲 stream, drain or river	overland flow Great Lake wetland other			
Number of pipes Pipe diamete	rs and invert elevations	Does pipe discharge below the OHWM?			
		Is the water treated before discharge?       No       Yes         Dimensions of headwall OR end section (ft)			
Type 🔲 headwall 📃 end section	other	Length Width Height			

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<ul> <li>K. MOORING and NAVIGATION BUOYS (See EZ Guide for Sample Drawing)</li> <li>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.</li> <li>Provide cross-section drawing(s) showing anchoring system(s) and dimensions.</li> </ul>							
Purpose of buoy	mooring navigation	swimming	other				
Number of buoys	Dimensions of buoys (ft) width height su	hain length	Boat Lengths	Type of anchor system			
Buoy Location: La	titude	N Longitude	· · ·	_W. ➡ Provide a tab	le for multiple buoys.		
Do you own the pro	operty along the shoreline?	🗌 No 🔲 Yes	If No, attach an auth	orization letter from t	he property owner(s).		
Do you own the bo	ttomlands?	🗌 No 🔲 Yes	If No, attach an auth	norization letter from t	he property owner(s).		
<ul> <li>L. FENCES</li> <li>◆Provide an overall site plan showing the proposed fencing through streams, wetlands or floodplains.</li> <li>◆Provide a drawing of fence profile showing the design, dimension, post spacing, mesh, and distance from ground to bottom of fence.</li> <li>Purpose of Airport Cervidae Livestock Residential Security Other fence</li> </ul>							
Total length (ft) of f streams	-		Fence height (ft)	Fence type and n	naterial		
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.							
Which best describes your proposed water body use (check all that apply)							
Water source for lake/pond           groundwater         natural springs         Inland Lake or Stream         storm water runoff         pump         sewage         other					other		
Location of the lake/basin/pond 🔲 floodplain 🔛 wetland 🛄 stream (inline) 🔲 upland							
Maximum dimensions (ft)     In the maximum Area: acres sq ft       In the maximum Area: acres sq ft     In the maximum Area: sq ft							
Has the there beer	a hydrologic study performed on	the site?	🗌 No 🔲 Yes	➡ If Yes, provide a	сору.		
Has the DEQ cond	ucted a wetland assessment for t	his parcel?	🗋 No 📄 Yes	➡ If Yes, provide a	copy or WIP number:		
Has a professional	wetland delineation been conduc	ted for this parcel?	🗌 No 🛄 Yes	If Yes, provide a copy with data sheets.			
ie o	ed or excavated spoils will be plac sposal, provide a ✦Detailed spoils ✦Letter of autho	disposal area locatio		h property lines.			

HTH	U.S. Arm	y Corps of Engineers <u>www.lre.usace.army</u>	Return to EZGuide.milMichiga	an Dept of Environr	nental Quality <u>www.mi.gov</u>	Vjointpermit	
<ul> <li>Loca</li> <li>For ir</li> <li>Pr</li> <li>Co</li> <li>At</li> </ul>	te your sit nformation ovide a de omplete th tach tables	t may Impact Wetlands (See Sample Dra e and wetland information with the DEQ W on the DEQ's Wetland Identification Progra stailed site plan with labeled property lines, e wetland dredge and wetland fill dimension s for multiple impact areas or activities. st one cross-section for each wetland dred	etlands Map Viev am (WIP) visit <u>ww</u> upland and wetla n information belo	ver at <u>www.mcgi.sta</u> <u>w.mi.gov/wetlands</u> and areas, and dime ow for each impacte	ate.mi.us/wetlands/ ensions and volumes of we ed wetland area.		
Has the	DEQ con	ducted a wetland assessment for this parce	el?	🗌 No 🔲 Yes	If Yes, provide a copy	or WIP number:	
Has a p	orofessiona	al wetland delineation been conducted for the	his parcel?	🗌 No 🔲 Yes	If Yes, provide a copy	with data sheets	
Is there	a recorde	d DEQ easement on the property?		🗌 No 🔲 Yes	If Yes, provide the eas	sement number	
Did the	applicant	purchase the property before October 1, 19	980?	🗌 No 🔲 Yes	➡ If Yes, provide documentation.		
ls any g	rading or	mechanized land clearing proposed?		🗌 No 🔲 Yes	If Yes, label the location	ons on the site plan.	
Has any complet	, i	pposed grading or mechanized land clearin	ig been	🗌 No 🔲 Yes	If Yes, label the location	ons on the site plan	
	ed Activity	boardwalk or deck (Section 10I)	bridges and (Section 14)	culverts	designated environme	ental area	
		dewatering	draining sur	face water	🗌 driveway / road		
		fences (Section 10L)	lill or dredge	e	restoration		
		septic system	stormwater (Section 10J)	discharge	other		
FILL		Dimensions maximum length (ft) maximum width (ft)	Area		Average depth (ft)	Volume (cu yd)	
DREDG	θE	Dimensions maximum length (ft) maximum width (ft)	Area	q ft	Average depth (ft)	Volume (cu yd)	
Spoils Disposal	-	d or excavated spoils will be placed ☐ on osal, provide a → Detailed spoils disposa → Letter of authorization	al area location m	ap and site plan wit			
다 한 한 Dublic sewer D private septic system the County Hea			the County Heal	th Department?	ed, has an application for a		
Describ	Describe the wetland impacts, the proposed use or development, and the alternatives considered:						
		mpact more than 1/3 acre of wetland?					
		a Mitigation Plan with the type and amount pacts to waters of the United States will be a			ormation go to <u>www.mi.go</u>	v/wetlands	
	e how the proposed i	impact to waters of the United States will b mpacts.	be compensated.	OR Explain why o	compensatory mitigation sh	nould not be required	

U.S. Army Corps of Engineers <u>www.lre.usace.army.mil</u> Michiga

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_	<b>DODPLAIN ACTIVITIES</b> (See Sample Drawing 5 and others. C		/
	more information go to <u>www.mi.gov/floodplainmanagement.</u> Thew under "Expedited Review Information for Minor Floodplain P	nis site also lists the projects and requirements for an expedited floodplain Projects."	
pile		the 100-year-floodplain which may qualify for an expedited review: Open ies, garages and accessory structures; parking lots; pavilions, gazebos,	
boai lots plac	dwalks, (non-enclosed) that are anchored to prevent floatation constructed at grade or resurfacing that is no more than 4 inchesting that 4 inchesting tha	loodplain which may qualify for an expedited review: Open pile decks and and that do not extend over the bed and bank of a watercourse; parking es above the existing grade; dry hydrants that do not require fill ng devices, water quality testing devices, and core sampling devices ecific design criteria.	t
	expedited review include:		
pł	notographs of any river or stream adjacent to the project.	own and with the direction of the photo clearly indicated. Include	
	_	dging your proposed application. See the website for sample wording.	
-	draulic analysis or hydrologic analysis may be required to fully		4 . 4
	v.fema.gov/nfip/elvinst.shtm.	ilding construction or addition in a floodplain. A sample form can be found	າສເ
⇒A	ttach additional sheets or tables for multiple proposed floodplain	n activities and provide hydraulic calculations.	
⇒S	how reference datum used on plans.		
Propos	ed Activity 📃 fill 📃 excavation or cut	100-year floodplain elevation (ft) (if known)	
	other	Datum 🔲 NGVD 29 🔛 NAVD 88 🛄 other	
Site is	feet above ordinary high water mark (OHWM) OR	R	
Fill volu	ume below the 100-year floodplain elevation	Compensating cut volume below the 100-year floodplain elevation	
(cu yds		(cu yds)	
	Type of construction is 🗌 residential 🔲 garage/pole barn [	non residential 🔲 other	
	Construction is new addition AND Serviced by	public sewer 🔲 private septic 🗌 other	
	Lowest adjacent grade (ft): existing proposed		
	·		
ß	Lowest adjacent grade (ft): existing proposed	Proposed Structure Information	
tions	Lowest adjacent grade (ft): existing proposed datum NGVD 29 NAVD 88 other		
dditions	Lowest adjacent grade (ft): existing proposed datum NGVD 29 NAVD 88 other Existing Structure Information	Proposed Structure Information	
r Additions	Lowest adjacent grade (ft): existing proposed_         datum       NGVD 29       NAVD 88       other         Existing Structure Information         Foundation type       basement	Proposed Structure Information Foundation type Desemble	
<u> </u>	Lowest adjacent grade (ft): existing proposed_         datum       NGVD 29       NAVD 88       other         Existing Structure Information         Foundation type       basement         concrete slab on grade       pilings	Proposed Structure Information         Foundation type       Dasement         concrete slab on grade       pilings	
<u> </u>	Lowest adjacent grade (ft): existing proposed_         datum       NGVD 29       NAVD 88       other         Existing Structure Information         Foundation type       basement         concrete slab on grade       pilings         crawl space       other	Proposed Structure Information         Foundation type       basement         concrete slab on grade       pilings         crawl space       other	  n
<u> </u>	Lowest adjacent grade (ft): existing proposed_         datum       NGVD 29       NAVD 88       other         Existing Structure Information         Foundation type       basement         concrete slab on grade       pilings         crawl space       other         Foundation floor elevation (ft)         Height of crawl space/basement from finished foundation	Proposed Structure Information         Foundation type       basement         concrete slab on grade       pilings         crawl space       other         Foundation floor elevation (ft)	 
Buildings and/or Additions	Lowest adjacent grade (ft): existing proposed         datum       NGVD 29       NAVD 88       other         Existing Structure Information         Foundation type       basement         concrete slab on grade       pilings         crawl space       other         Foundation floor elevation (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)         For enclosed areas below the flood elevation, such as a craw	Proposed Structure Information         Foundation type       basement         concrete slab on grade       pilings         crawl space       other         Foundation floor elevation (ft)	 
<u> </u>	Lowest adjacent grade (ft): existing proposed_         datum       NGVD 29       NAVD 88       other         Existing Structure Information         Foundation type       basement         concrete slab on grade       pilings         crawl space       other         Foundation floor elevation (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)         For enclosed areas below the flood elevation, such as a craw         Area of proposed foundation (sq ft)	Proposed Structure Information         Foundation type       basement         concrete slab on grade       pilings         crawl space       other         Foundation floor elevation (ft)	
<u> </u>	Lowest adjacent grade (ft): existing proposed         datum       NGVD 29       NAVD 88       other         Existing Structure Information         Foundation type       basement         concrete slab on grade       pilings         crawl space       other         Foundation floor elevation (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)         For enclosed areas below the flood elevation, such as a craw	Proposed Structure Information         Foundation type       basement         concrete slab on grade       pilings         crawl space       other         Foundation floor elevation (ft)	n

H	H	U.S. Army Corps of Engineers <u>www.lre.usace.army.mil</u> Michigan Dept of Environ	mental Qualit	y <u>www.mi.gov/joint</u>	Dermit DEQ
14 • •	Co A h Hig ➡A	IDGES and CULVERTS Including Foot and Cart Bridges. (See EZ Guides and Sample I omplete other applicable Sections, including 10A-C. hydraulic analysis or hydrologic analysis may be required to fully assess impacts. →Atta gh Water Elevation - describe reference point and highest known water level above or be Attach additional sheets for multiple bridges and/or culverts. Provide detailed site-specific drawings of existing and proposed Plan and Elevation View	ch hydraulic o low reference	calculations. e point and date of	observation.
		Provide all information in the boxes below; do not write in a reference to plan sheets. Sho			
		The site has a high water elevation (ft) above or 🗌 below the Reference	Point of	Date obse	erved
	ľ	Reference datum used NGVD 29 NAVD 88 IGLD 85 (Great Lakes coastal		ther	
Ctroam Information		Average stream width (ft) at the ordinary high water mark (OHWM) outside the influence any ponding or scour holes around the structure	ce of Ups	stream wnstream	
, the second sec	2	Cross-sectional area of primary channel (sq ft) (See Sample Drawing 1	4C for more	information)	
2		The width of the stream where the water begins to overflow its banks. Bankfull width (			
20		The invert of the stream 100-feet from structure (ft)		Unotroom	
5 +		The invert of the stream 100-leet from structure (it)		Upstream	
U	י			Downstream	
		Is the existing culvert perched? No Yes If Yes, provide a profile of the channe of 200 feet upstream and downstream of the culvert.	l bottom at th	e high and low poir	its for a distance
		Complete this form for each bridge / culvert location.		Existing	Proposed
	-	Number of bridge spans			
	-	Bridge type (concrete box beam, concrete I-beam, timber, etc.)			
c)	+	Bridge span ( length perpendicular to stream) (ft)			
ğ	-	Bridge width (parallel to stream) (ft)			
Bridge	-		pstream		
	+		Downstream Ipstream		
	ł		Downstream		
	ŀ	Bridge rise from bottom of beam to streambed (ft)	Downourcam		
		Number of culverts			
	Ī	Culvert type (arch, bottomless, box, circular, elliptical, etc.)			
	Ī	Culvert material (concrete, corrugated metal, plastic, etc.)			
	[	Culvert length (ft)			
ert	Ļ	Culvert 🛄 width 🛄 diameter (ft)			
Culvert	-	Culvert height prior to any burying (ft)			
C	-	Depth culvert will be buried (ft)			
	-		Jpstream		
	ŀ		Downstream		
	ŀ		lpstream Downstream		
		Entrance design (mitered, projecting, wingwalls, etc.)	Downstream		
and	ł	Total structure waterway opening above streambed (sq ft)			
les	Ì	Total structure waterway area below the 100-year elevation (sq ft) (if known)			
ridg	Ī	Elevation of road grade at structure (ft)			
B	rts 🛛	Elevation of low point in road (ft)			
ott	Iver	Distance from low point of road to mid-point of bridge crossing (ft)			
ort	Cu	Length of approach fill from edge of bridge/culvert to existing grade (ft)			
Complete for both Bridges and		A Licensed Professional Engineer may certify that your project will not cause a harmfu and including the 100-year flood discharge. The "Required Certification Language" is f documents" link from the <u>www.mi.gov/jointpermit</u> page or a copy may be requested by supporting this certification may also be required. Is Certification Language attached?	ound under "f	forms" on the "maps	s, forms and

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	U.S. Army Corps of Engineers <u>www.lre.us</u>	ace.army.mil Michigan De	ept of Environmenta	al Quality <u>www.mi.gov/jointpermit</u>			
15 STR	EAM, RIVER, or DRAIN CONSTRUCTION	N, RELOCATION and ENCLOS	OURE ACTIVITIES				
Com	plete Section 10C for riprap activities.						
	e casting or other proposed activities will in		-				
all pr	oposed structures and land change activitie	es.		tures; existing structures; and the location of			
	ovide scaled cross-section (elevation) draw						
➡Foi	r activities on legally established county dra	ins, provide original design and	proposed dimension	ons and elevations.			
ation	Water elevation (ft) datur Show elevation on plans with descrip		IGLD 85 (Great	t Lakes coastal areas) 🗌 other			
Voter elevation (ft) datum NGVD 29 NAVD 88 IGLD 85 (Great Lakes coastal areas) 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)					
Propos	ed Activity 🗌 enclosure 🔲 improveme	nt 🔲 maintenance 📃 new d	Irain 🔲 relocation	wetlands other			
lf an en	closed structure is proposed, check mater	ial type 🔲 concrete 🔲 corrug	ated metal 🔲 plas	tic other			
Dimens	sions (ft) of the structure: diameter	length	Volume of fill (cu	yds)			
Will old	/enclosed stream channel be backfilled to t	op of bank grade? 🗌 No 📃 Y	es				
Length	of channel to be abandoned (ft)		Volume of fill (cu	ill (cu yds)			
Dimens channe	tions (ft) of improved, maintained, new, relo	cated or wetland stream/drain	Volume of dredge/excavation (cu yds)				
length	width depth						
How wi	Il slopes and bottom be stabilized?		Proposed side sl	opes (vertical / horizontal)			
Spoils Disposal							
16 DR	AWDOWN OF AN IMPOUNDMENT						
• If we	tlands will be impacted, complete Section	12.					
Type of	f drawdown 🗌 over winter 🗌 temporary	🗌 one-time event 🔲 annual e	vent 🗌 permanen	t (dam removal) 🗌 other			
Reasor	n for drawdown						
	ere been a previous drawdown?  No  provide date (M/D/Y)	Yes		Previous DEQ permit number, if known			
Does w	aterbody have established legal lake level?	P No Yes Not Sure		Dam ID Number, if known			
Extent	of vertical drawdown (ft)	Impoundment design head (ft	)	Number of adjacent or impacted property owners			
Date dr	awdown would start (M/D/Y)	Date drawdown would stop (N	//D/Y)	Rate of drawdown ( ft/day)			
Date re	Rate of refill (ft/day)						
Type of	f outlet discharge structure to be used ace 🗌 bottom 🗌 mid-depth	Impoundment area at normal water level (acres)		Sediment depth behind impoundment discharge structure (ft)			

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17 DAM, EMBANK	MENT, DIKE, SPILLWAY,	or CONTRO	L STRUCTURE ACT	VITIES (See	Sample Drawing 15)
For more informat	tion go to <u>www.mi.gov/dams</u>	safety. If we	tlands will be impacted	l, complete Se	ection 12.
				_	ed Link – DEQ Dam Removal web site.
					d dam, or enlargement of an existing dam for etermined to be permitable.
-		-		-	ion, dam abandonment, or dam removal.
	afety application fees are a			ir, dani alterat	on, dan abandonment, or dan removal.
	abandonment		Iteration		alorgoment of an existing dam
Proposed Activity					nlargement of an existing dam
	removal	re	•	L re	construction of a failed dam
	new dam constructio	n 🗌 o	ther		
Dam ID Number, if k	nown Type	of outlet dis	scharge structure	surface 🗌 bo	ttom 🔲 mid-depth
Will proposed activiti	es require a drawdown of th	ne waterbod	y to complete the work	? 🗌 No 🔲 `	Yes  ➡ If Yes, complete Section 16.
Does the structure a	llow complete drainage of th	ne waterbod	y? 🗌 No 🔲 Yes	Impoundme	nt size (acres)
Benchmark elevation					NGVD 29 🔲 NAVD 88 🛄 Local other
Dredging/excavation	nark and show on the plans volume (cu vd)		olume (cu yd)		Riprap volume (cu yd)
	he services of a Licensed P			Yes	
			-		
Engineer's Name	Re	egistration N	umber	Maill	ng Address
Will a water diversion	n during construction be req	uired? 🗌 N	o 🗌 Yes		
If Yes, describe how	the stream flow will be cont	rolled throu	gh the dam constructio	n area during	the proposed project activities:
	Complete the following for	a new dam,	reconstruction of a fail	led dam or en	largement of an existing dam
Describe the type of	dam and how you will desig	in the dam a	and embankment to co	ntrol seepage	through and underneath the dam.
Embankmant tan ala	votion (ft)	Stro	ambad alguation at day	waatroom omk	
Embankment top ele			ambed elevation at do		
Structural height (diff	ference between embankme	ent top eleva	ation and streambed e		vnstream embankment toe) (ft)
Embankment le dimensions	ngth (ft) top wid	th (ft)	bottom width (ft)	– slopes – (vertica	Upstream I / horizontal) Downstream
Proposed normal po	ol elevation (ft)		Impoundment flood	elevation (ft)	
Maximum vertical dra	awdown capability (ft)	Attach	operational procedur	e of the propo	sed structure, if available.
Have soil borings been taken at dam location?					attach results.
Will a cold water und	lerspill be provided?		🗌 No 🔲 Yes	➡ If Yes,	provide the invert elevation (ft)
Do you have flowage the design flood elev	e rights to all proposed flood ation?	led property	at 🗌 No 🗌 Yes	➡ If No, p owner.	rovide a letter of authorization from the property



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<ul> <li>UTILITY CROSSINGS</li> <li>If side casting is propose</li> <li>Attach additional shee</li> <li>For wetland crossings</li> </ul>	ed, complete Sections ets or tables with the re	10A and 10B. equested inform	If spoils v nation as r	vill be placed in needed for multip	ple crossings.			
Crossing of 🔲 Inland Lak	e or Stream 🔲 floodp	lain 🗌 Great L	.ake 🗌 w	etlands (also co	mplete Section 1	2)		
What method will be used	to construct the cross	ings? 🗌 direct	tional bori	ng 🔲 jack and I	bore 🔲 open tr	ench 🗌 plow	/ knife 🔲	flume
Utility Type	Number of lake or stream crossings	Number of w crossing		Pipe diameter with casing (in)	Pipe length per crossing (ft)	Distance streambed or v		Trench width (ft)
sanitary sewer								
storm sewer								
uwatermain								
Cable								
electric								
fiber optic cable								
oil/gas pipeline								
<ul> <li>MARINA CONSTRUCT</li> <li>For more information go</li> <li>Marinas located on the Oplace structures on the body determined complete.</li> <li>Fully complete Section</li> <li>Enclose a copy of any</li> <li>Attach a copy of the puis The WRD may require proposed project will advised to the section of the proposed project will advised to the section of the section</li></ul>	to <u>www.mi.gov/marine</u> Great Lakes, including bottomlands. If a conv n 10 E. For multiple st current pump-out agr roperty legal description e a riparian interest ar	as Lake St. Clair, reyance is nece tructures provid eement with ar on, mortgage so ea (RIA) estima	may be ro essary, an le a table nother mai urvey, or a ate survey	equired to secur application mus with the request ina facility, if on a property bounce , sealed by a lic	e leases or conve to be submitted b ed information. -site sanitary pur dary survey to yo ensed surveyor,	efore the Joint np out facilities ur application. in order to dete	Permit Appl are not ava ermine whet	ication can be illable. her the
affected adjacent riparia	n owners with your ap	plication.			estimate survey			ons from
affected adjacent riparia Proposed Marina Activity	New constru	plication.		able sealed RIA ] Expansion	estimate survey	and/or written		
affected adjacent riparia	n owners with your ap	pplication.		Expansion	estimate survey ation visit <u>www.n</u>	Reconfi	guration	
affected adjacent riparia Proposed Marina Activity	New construction owners with your ap	plication. uction e?	Yes	Expansion	ation visit <u>www.n</u> ment?	Reconfi ni.gov/deqgreat Yes If Yes, pr	guration lakes. rovide a cop	у.
affected adjacent riparia Proposed Marina Activity Do you have an existing G Are sanitary pump-out faci	In owners with your ap	plication. uction e?	Yes I	] Expansion For more informa pump out agree	ation visit <u>www.n</u>	Reconfi ni.gov/deqgreat Yes If Yes, pr	guration lakes. rovide a cop	
affected adjacent riparia Proposed Marina Activity Do you have an existing G Are sanitary pump-out faci	In owners with your ap	plication. uction e?	Yes I	] Expansion For more informa pump out agree	ation visit <u>www.n</u> ment?	Reconfi ni.gov/deqgreat Yes If Yes, pr	guration lakes. rovide a cop	у.
affected adjacent riparia Proposed Marina Activity Do you have an existing G Are sanitary pump-out faci Number of boat slips/wells Lineal feet of broadside do	In owners with your ap	plication. uction e? No [ Yes otion side dockage c	Yes I	] Expansion For more informa pump out agree	ation visit <u>www.n</u> ment?	Reconfi ni.gov/deqgreat Yes If Yes, pr	guration lakes. rovide a cop	у.
affected adjacent riparia Proposed Marina Activity Do you have an existing G Are sanitary pump-out faci	In owners with your ap	plication. uction e? No [ Yes otion side dockage c	Yes I	] Expansion For more informa pump out agree	ation visit <u>www.n</u> ment?	Reconfi ni.gov/deqgreat Yes If Yes, pr	guration lakes. rovide a cop	у.

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20		TICAL DUNE AREAS AND HIGH RISK EROSION AREAS (See Sar	mple Drawings 19 and 20, also Sample Drawing 9 for wetlands)
		Dune Areas (See Sample Drawing 20) nore information go to <u>www.mi.gov/degsanddunes/</u>	
•	All pr	operty boundaries, proposed structure corners including decks, septi	c system, water well, driveway, grading, and terrain alteration
		ions must be staked before the WRD site inspection.	the second discount of the second
		ed overhead and cross-section plans that include all property boundar construction access must be included. Cross-sections must show exis	
	Additi	ional information may be required to complete the application review.	
		onstruction in critical dune areas requires the following written assurat	
	2)	) permit or letter from County Enforcing Agent stating project complies ) permit or letter from County Health Department for work on a septic	system, and
	3)	) a copy of the assurance letter received from the local Conservation	District indicating your project has been reviewed and the prepared
•		instructions or plans for vegetation removal will be followed during and truction in critical dune areas on slopes greater than 33 percent (1ver	
		truction in critical dune areas on slopes that measure from 25 percent	
LI:e		ared by a registered architect or licensed professional engineer.	
		sk Erosion Areas (See Sample Drawing 19) nore information go to <u>www.mi.gov/jointpermit</u> , select HREA under "r	elated links"
•	All pr	operty boundaries and proposed structure corners and septic system	locations must be staked before the WRD site inspection.
	Scale	ed overhead plans that include all property boundaries, and the location	on and dimensions of all structures and septic systems must be
		tional information, including the building construction plans, may be re	equired to complete the application review.
	ISK	Parcel dimensions (ft) width depth	Date project staked (M/D/Y)
lica	ב	Property is a 🔲 platted lot 🗌 unplatted parcel	Year current property boundaries created
l Crit	reas and/or Hig Erosion Areas	Type of construction activities 🔲 addition 🗌 driveway 🗌 garage	e 🗌 home 🔲 renovation 🔲 septic 🔲 other
r al		The proposed project will be serviced by 🗌 public sewer 🗌 priva	te septic system
∋ fo	sion	On the plans show the location and dimensions of the private set	
let	o, as	If a private septic system is proposed has application been made to	the County Health Department for a permit?
0	а. <u>-</u> -	in a private copile cyclem te proposed nac apprication seen made te	
E	Are E1	If Yes, has a permit been issued?  No  Yes	
Complete for all Critical	une Are Er		
Com	Dune Areas and/or High Kisk Erosion Areas	If Yes, has a permit been issued?	ects.
		If Yes, has a permit been issued? ☐ No ☐ Yes → If Yes, provide a copy of the permit for all Critical Dune Area proj	ects.
		<ul> <li>If Yes, has a permit been issued? □ No □ Yes</li> <li>If Yes, provide a copy of the permit for all Critical Dune Area proj</li> <li>If in a High Risk Erosion Area provide the number of individual living</li> </ul>	ects. g-units in the proposed building
		If Yes, has a permit been issued? ☐ No ☐ Yes → If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation	ects. g-units in the proposed building Proposed New Construction
		If Yes, has a permit been issued? ☐ No ☐ Yes → If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method	ects. g-units in the proposed building Proposed New Construction Foundation type basement
		If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area projection  If in a High Risk Erosion Area provide the number of individual living  Utility Installation  Installation Method  directional bore  plowing in	ects. g-units in the proposed building Proposed New Construction Foundation type basement concrete slab pilings
	cal Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area proje If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Installation Method Instellation Determination Installation Installation Installation Method Installation	ects. g-units in the proposed building Proposed New Construction Foundation type
		If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area projection If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Installation Method Instellation Deve Deving in Instellation Other Show utility locations and dimensions on the site plan.	ects. g-units in the proposed building Proposed New Construction Foundation type basement concrete slab pilings crawl space other Area of existing structure (sq ft)
	cal Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area proj  If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Installation Method Installation bore Installation Installation Installation Method Show utility locations and dimensions on the site plan. Show construction access route on the site plan.	ects. g-units in the proposed building Proposed New Construction Foundation type
	cal Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area project If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Installation Method Installation bore Installation Plowing in Installation other Show utility locations and dimensions on the site plan. Show construction access route on the site plan. Show existing and proposed grades on the cross-section.	ects. g-units in the proposed building Proposed New Construction Foundation typebasementbasementbasementconcrete slabpilingscrawl spaceother Area of existing structure (sq ft) Area of proposed structure (sq ft) Area of existing deck (sq ft)
	cal Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area proj  If in a High Risk Erosion Area provide the number of individual living  Utility Installation Installation Method I	ects. g-units in the proposed building Proposed New Construction Foundation type basement concrete slab pilings crawl space other Area of existing structure (sq ft) Area of proposed structure (sq ft) Area of existing deck (sq ft) Area of proposed deck (sq ft)
	Critical Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area projection If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Installation Meth	ects. g-units in the proposed building Proposed New Construction Foundation type
	Critical Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area project If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method	ects.  g-units in the proposed building  Proposed New Construction  Foundation type   basement   concrete slab   pilings   crawl space   other  Area of existing structure (sq ft)  Area of proposed structure (sq ft)  Area of proposed deck (sq ft)  Area of proposed deck (sq ft)  Proposed New Construction  Foundation type   basement   concrete slab   pilings   crawl space   other
	Critical Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method directional bore plowing in open trench other Show utility locations and dimensions on the site plan. Show construction access route on the site plan. Show existing and proposed grades on the cross-section. Show locations of vegetation to be removed on the site plan. Existing Structure Information Foundation type basement concrete slab plings	ects.  g-units in the proposed building  Proposed New Construction  Foundation type  basement concrete slab  pilings crawl space  other  Area of existing structure (sq ft)  Area of proposed structure (sq ft)  Area of proposed deck (sq ft)  Area of proposed deck (sq ft)  Proposed New Construction  Foundation type  basement concrete slab  pilings crawl space  other  Material above foundation wall
	Critical Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method I directional bore I plowing in Open trench Other Show utility locations and dimensions on the site plan. Show construction access route on the site plan. Show existing and proposed grades on the cross-section. Show locations of vegetation to be removed on the site plan. Existing Structure Information Foundation type Dasement Concrete slab Dilings Crawl space Other_	ects.  g-units in the proposed building  Proposed New Construction  Foundation type   basement   concrete slab   pilings   crawl space   other  Area of existing structure (sq ft)  Area of proposed structure (sq ft)  Area of proposed deck (sq ft)  Area of proposed deck (sq ft)  Proposed New Construction  Foundation type   basement   concrete slab   pilings   crawl space   other
	Critical Dune Areas	If Yes, has a permit been issued? No Yes   If Yes, provide a copy of the permit for all Critical Dune Area proj   If in a High Risk Erosion Area provide the number of individual living   Utility Installation   Installation Method   directional bore   plowing in   open trench   other   Show utility locations and dimensions on the site plan. Show construction access route on the site plan. Show existing and proposed grades on the cross-section. Show locations of vegetation to be removed on the site plan. Existing Structure Information Foundation type basement concrete slab pilings crawl space other Material above foundation wall block log stud frame other	ects.  g-units in the proposed building  Proposed New Construction  Foundation typebasementConcrete slabpilingscrawl spaceotherArea of existing structure (sq ft) Area of proposed structure (sq ft) Area of existing deck (sq ft) Area of proposed deck (sq ft) Area of proposed deck (sq ft)  Foundation typebasementConcrete slabpilingscrawl spaceother Material above foundation wallblocklogstud frameother
	Critical Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method Ins	ects.  g-units in the proposed building  Proposed New Construction  Foundation type
	Critical Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method directional bore plowing in open trench other	ects.
	Critical Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method I directional bore I plowing in Open trench Other Show utility locations and dimensions on the site plan. Show construction access route on the site plan. Show construction access route on the site plan. Show locations of vegetation to be removed on the site plan. Existing Structure Information Foundation type Dasement Concrete slab Dillings Crawl space Other Material above foundation wall Dillock I log Stud frame Other Area of the foundation, excluding attached garage (sq ft) Area of the garage foundation (sq ft)	ects.  p-units in the proposed building  Proposed New Construction  Foundation type  basement  concrete slab  pilings  crawl space  other  Area of existing structure (sq ft)  Area of proposed structure (sq ft)  Area of proposed deck (sq ft)  Area of proposed deck (sq ft)  Foundation type basement  concrete slab pilings  crawl space other  Material above foundation wall block log stud frame other  Siding material block vinyl wood other  Area of garage foundation (sq ft)
	cal Dune Areas	If Yes, has a permit been issued? No Yes  If Yes, provide a copy of the permit for all Critical Dune Area proj If in a High Risk Erosion Area provide the number of individual living Utility Installation Installation Method directional bore plowing in open trench other	ects.  p-units in the proposed building  Proposed New Construction  Foundation type  basement  concrete slab  pilings  crawl space  other  Area of existing structure (sq ft)  Area of proposed structure (sq ft)  Area of proposed deck (sq ft)  Area of proposed deck (sq ft)  Foundation type basement  concrete slab pilings  crawl space other  Material above foundation wall block log stud frame other  Siding material block vinyl wood other  Area of garage foundation (sq ft)

## General Instructions For All Drawings

Required drawings:

- Site location map that clearly identifies your project location. Draw a map, copy a plat map or a county map, or create a map using the Internet (see Sample Drawing 1).
- Overall site plan showing areas of proposed impacts, existing lakes, streams, wetlands, *floodplains*, and other water features. Include name of waterbodies, property boundaries and corners, easement boundaries, neighboring property owner information, and *soil erosion and sedimentation control measures*.
- Plan view and cross-section (elevation) drawings that are site-specific and adequate for detailed review. Show both existing and proposed conditions (see Sample Drawings 2 through 23).

All drawings should:

- Be legible and clearly labeled on standard weight paper of 8-1/2 x 11-inch size.
- Title block on each drawing which includes: proposed activity; applicant's name; waterbody; city, village or township; county; drawing number and number in set (i.e., Drawing 1 of 4), and date prepared.

**Return to EZ** 

Guide

- Reference a datum (*NGVD 29*, NAVD 88, *IGLD 85*) if the proposed project is on Section 10 Waters.
- Be drawn to scale with the scale identified on each drawing. Show vertical scale if different than horizontal scale on each drawing.
- All plan view drawings should include a north arrow.
- Label all existing and proposed relevant features and dimensions relative to those features, especially those that correspond to questions on the application form.
- □ Include soil erosion and sedimentation control measures.

NOTE: 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.

