

FOR GUIDANCE USE ONLY

Riprap Shore Protection

REGULATORY REFERENCE

Part 301. Inland Lakes and Streams [Minor Permit Category 37](#),
and
Part 325. Great Lakes Submerged Lands [Minor Project Category 37](#)

FEE

\$100

GENERAL GUIDANCE

You must answer ***True*** to ***all*** of the following statements for application to qualify as a minor permit, and to use this guide:

- The shoreline has visible signs of erosion, and the method of protection is the least disruptive alternative.
- Riprap is placed on a 1-on-2 slope (1 foot vertical to 2 feet horizontal), or gentler slope.
- The shore protection is no longer than 300 feet, and does not extend more than 5 feet from the shoreline.
- The shore protection and fill will not be placed in a wetland, or alter water flow into or out of any wetland.
- The shore protection is not located in a Critical Dune Area.

In Inland Lakes:

- Natural field stone or rock is used that is less than 24 inches in diameter, and is not broken concrete.

In Streams or Rivers:

- Natural field stone or rock is used that is properly sized for the stream velocity, or is broken concrete in a designated county drain.

Note: If constructed along the shoreline of one of the Great Lakes, a conveyance may be required.

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](#)

[Section 10A](#)

[Section 10C](#)

[Section 10D](#)

If you answer Yes to this question, complete the section of the application indicated.

Will you be excavating the shoreline, or watercourse?

[Section 10B](#)

Will the project be located in a stream?

[Section 13](#)

Is the project located in a marina?

[Section 19](#)

Include the following drawing:

Include the following site plan and cross-section drawings:

[Site Location Map](#)

[Riprap Site Plan](#)

[Riprap Cross-Section](#)



AGENCY USE	Previous USACE File Number	Date Received	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 ½ by 11 inch paper; photographs.
- Application fee is attached.



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

Project Address (road, if no street address)	Zip Code	Municipality Township/Village/City)	County
Property Tax Identification Number(s)	Latitude ____ . _____ N		Township/Range/Section (TRS) T__ __ N or S; R__ __ E or W; Sec__
Subdivision/Plat and Lot Number	Longitude - ____ . _____ W		OR Private Claim #

2 Applicant and Agent Information

Owner/Applicant (individual or corporate name)	Agent/Contractor (firm name and contact person)
Mailing Address	Mailing Address
City State Zip Code	City State Zip Code
Contact Phone Number Fax	Contact Phone Number Fax
Email	E-mail
<input 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

3 Project Description

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

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

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.

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.*

Names of roads of closest intersection

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 site (<i>color; 1 or 2 story, other</i>)	Description of adjacent landmarks or buildings (<i>address; color; etc</i>)
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How can your site be identified if there is no visible address?

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

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.

8 Adjacent 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 adjacents. If you own the adjacent lot, provide the requested information for the first adjacent parcel that is not owned by you.

Property Owner's Name	Mailing Address	City	State and Zip Code

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 type="checkbox"/> Property Owner <input type="checkbox"/> Agent/Contractor <input type="checkbox"/> Corp. or Public Agency / Title	Printed Name	Signature	Date
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**20 CRITICAL DUNE AREAS AND HIGH RISK EROSION AREAS** (See Sample Drawings 19 and 20, also Sample Drawing 9 for wetlands)**Critical Dune Areas (See Sample Drawing 20)**

- For more information go to www.mi.gov/deqsanddunes/
- All property boundaries, proposed structure corners including decks, septic system, water well, driveway, grading, and terrain alteration locations must be staked before the WRD site inspection.
- Scaled overhead and cross-section plans that include all property boundaries, location and dimensions of all structures and terrain alterations, and construction access must be included. Cross-sections must show existing and proposed grades including foundations.
- Additional information may be required to complete the application review.
 - Construction in critical dune areas requires the following written assurances submitted with the application:
 - 1) permit or letter from County Enforcing Agent stating project complies with Part 91 (Soil Erosion and Sedimentation Control),
 - 2) 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 after the construction process.
- 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 plans prepared by a registered architect or licensed professional engineer.

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 and proposed structure corners and septic system locations must be staked before the WRD site inspection.
- Scaled overhead plans that 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.

Complete for all Critical Dune Areas and/or High Risk Erosion 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 _____	
	Type of construction activities <input type="checkbox"/> addition <input type="checkbox"/> driveway <input type="checkbox"/> garage <input type="checkbox"/> home <input type="checkbox"/> renovation <input type="checkbox"/> septic <input type="checkbox"/> other _____			
	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 application been made to the County Health Department for a permit? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, has a permit been issued? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, provide a copy of the permit for all Critical Dune Area projects.			
	If in a High Risk Erosion Area provide the number of individual living-units in the proposed building _____			
Critical Dune Areas	Utility Installation		Proposed New Construction	
	Installation Method <input type="checkbox"/> directional bore <input type="checkbox"/> plowing in <input type="checkbox"/> open trench <input type="checkbox"/> other _____		Foundation type <input type="checkbox"/> basement <input type="checkbox"/> concrete slab <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other _____	
	On the plans show utility locations and dimensions on the site plan.		Area of existing structure (sq ft)	
	On the plans show construction access route on the site plan.		Area of proposed structure (sq ft)	
	On the plans show existing and proposed grades on the cross-section.		Area of existing deck (sq ft)	
On the plans show locations of vegetation to be removed on the site plan.		Area of proposed deck (sq ft)		
High Risk Erosion Areas	Existing Structure Information		Proposed New Construction	
	Foundation type <input type="checkbox"/> basement <input type="checkbox"/> concrete slab <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other _____		Foundation type <input type="checkbox"/> basement <input type="checkbox"/> concrete slab <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other _____	
	Material above foundation wall <input type="checkbox"/> block <input type="checkbox"/> log <input type="checkbox"/> stud frame <input type="checkbox"/> other _____		Material above foundation wall <input type="checkbox"/> block <input type="checkbox"/> log <input type="checkbox"/> stud frame <input type="checkbox"/> other _____	
	Siding material <input type="checkbox"/> block <input type="checkbox"/> vinyl <input type="checkbox"/> wood <input type="checkbox"/> other _____		Siding material <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 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	

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.
- 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.

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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.

Sample Drawing 1	
<p style="font-size: 1.2em; font-weight: bold;">Center Township Emmet County</p> <p style="font-size: 1.5em; font-weight: bold;">Lark's Lake</p> <p style="font-size: 1.2em;">2nd house from end of road</p> <p style="font-size: 1.2em;">Van Rd.</p> <p style="font-size: 1.2em;">Lark's Lake Rd.</p>	<p style="font-size: 1.2em; font-weight: bold;">CONWAY L.</p> <p style="font-size: 1.2em; font-weight: bold;">HURON MOUNTAIN CLUB</p> <p style="font-size: 1.2em; font-weight: bold;">TROUT R.</p> <p style="font-size: 1.2em; font-weight: bold;">SALMON R.</p> <p style="font-size: 1.2em; font-weight: bold;">MARQUETTE COUNTY, MICH.</p>
<p>Site location map using a hand-drawn map that is clearly labeled</p>	<p>Site location map using a copy of a county plat book</p>

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