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Appendix 8.1 Shoreline Erosion Assessment

(Adapted from *Understanding, Living With & Controlling Shoreline Erosion*, 2007, Tip of the Mitt Watershed Council)

Date of	assessment (mm/dd/yy	y):		
Propert	y owner: Name _ Addres	S		
	Phone E-mail			
Assessor	r: Name_ Addres	is	_	
	Phone E-mail			<u>-</u>
Lake na	me:	County:		State:
Lake pr	operty address:			
Location	n: Latitude	Longitude		
Type of lake or water	r body: □Impoundmen	nt □Natural w/o level con	ntrol □Natural w/l	level control (inches
		peach		······································
		horeline		
		20 feet from sho		
Observed location of	lake level: Delow the	e OHWM □At OHWM	I □Above OHW	M
Sun: □Full □Partia	l Shade			
Bank soils: Muck (continued)	organic) 🗆 Silt 🗆 Sa	and □Clay □Gravel	□Rock □Boul	lders
Lake bottom type:	Muck (organic) □Sa	and □Gravel □Rock	□Boulders	
Orientation of maxin Average depth across	from property:num fetch: □N □NI s maximum fetch line: gGPS):pendicular to shoreling	E	□sw	
Site conditions: Upland zones eroded? Length of erosion	□Yes □No Height of erosion		roded area	Rate of recession

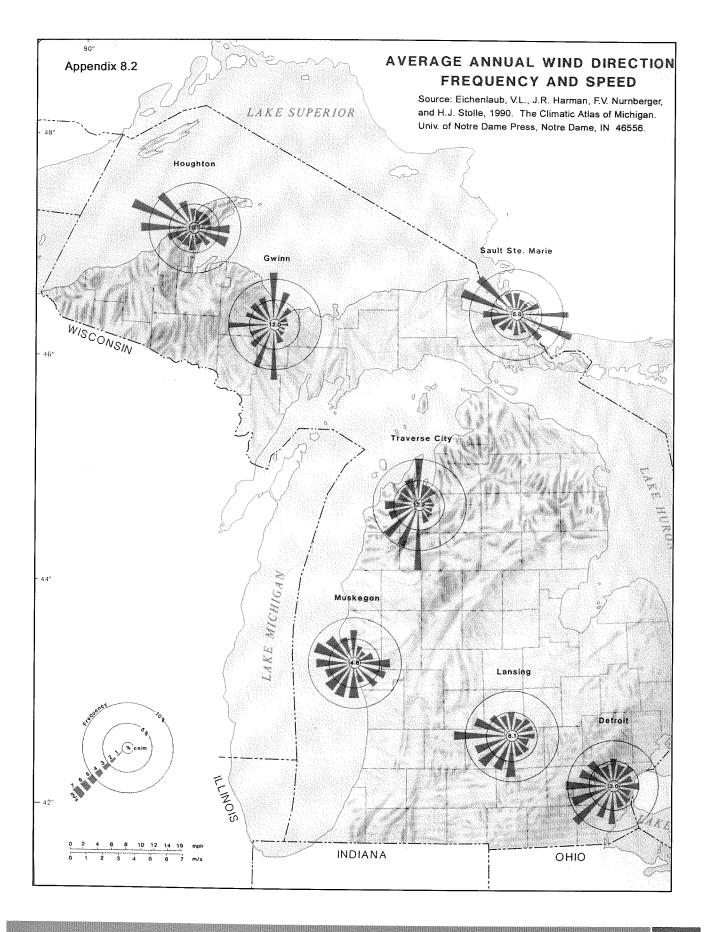
Bank shoulder eroded? \(\sigma\)Yes \(\sigma\) No Length of erosion Height of Comments:			
Bank toe eroded? \(\superscript{\text{Yes}}\) \(\superscript{\text{No}}\) Length of erosion Height of Comments: \(\superscript{\text{Yes}}\)	erosion	Slope of the eroded area	Rate of recession
Height of eroding bank: fe	et		
Vegetation (percent cover): Upland zones: □0 □1-10% □10-2 Vegetation (check all that apply): □Tre List prominent species:	ees □Shrubs	□Grasses □Herbaceous p	
Bank shoulder: \(\bigcup 0 \text{11-10\%} \text{110-10}\\ Vegetation (check all that apply): \(\bigcup Tr\) List prominent species: \(\bigcup \)	ees	□Grasses □Herbaceous j	perennials
Bank toe: □0 □1-10% □10-25% Vegetation (check all that apply): □Tr List prominent species:	ees	□Grasses □Herbaceous	
*Aquatic zone: □Rocky substrate unal □Substrate is not rocky Vegetation (check all that apply): □Sh List prominent species:	y, but vegetation urubs □Emerge	is lacking ent □Floating-leaf	
Method used to estimate wave energed Wisconsin erosion calculato Wisconsin Erosion Intensity	r Results: Score Sheet I		
Cause of erosion (Check all that app Upland zone: □Runoff □Groundwater seepage □Other	□Foot traffic	□Boat/dock storage	
Bank shoulder: □Runoff □Groundwater seepage □Wind-generated waves □Boat wa □Other	□Unstable/unde		ke level fluctuations

Bank toe: Runoff Groundwater seepage Unstable/undercut toe Glee push Lake level fluctuations Wind-generated waves Globstruction of longshore drift and currents Other
Current trend of the condition: ☐Stable ☐Increasing ☐Decreasing Comments:
Existing hard structure: □Seawall □Rock □None
Condition or influence of adjacent properties:
Summary comments:
PROPERTY OWNER INTERVIEW: (date:)
How long has erosion been occurring at your site?
Have there been noticeable differences in erosion between upland and shoreline areas?
How much area has been lost in each zone? Over what period of time? Upland zone:
Shoreline zone:
What physical changes have taken place on your property—e.g., changing water levels, dredging, filling, construction?
On adjacent properties?
In the lake?
Has ice been a problem? □Yes □No If yes, is it every year?
Have ice ridges formed? □Yes □No
Proximity to boating lanes: DLess than 100 yards DMore than 100 yards
Traffic intensity: □High □Medium □Low
Do you think that the erosion is from natural or human caused factors?
What, if anything, have you tried to control erosion at your site?
How do you use your shoreline?
Boat and dock storage?

How do you use your s	shoreline?			
Summary comments: _				 _
				 _
		-	 	_

PHOTOGRAPHS of property:

IN WATER: From property edges and center FROM LAND: From property edges and center Upland slopes, vegetation and structures Adjacent properties' shoreline and upland From house to water



^{*}Aquatic vegetation: Dense or abundant means that on average 50 to 100 percent of the bottom is visually obstructed by plants during the growing season (June 1 to Sept. 14). Scattered or patchy means that on average 1 to 49 percent of the bottom is visually obstructed by plants during the growing season. Absent means that on average less than 1 percent of the bottom is visually obstructed by plants during the growing season (WI NR 328 page 53).