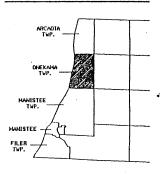


# ONEKAMA TOWNSHIP

### HIGH RISK EROSION AREAS & CRITICAL DUNE AREAS

MANISTEE COUNTY



#### HIGH RISK EROSION AREAS

THE NUMBER REPRESENTS, IN FEET, THE 60' 38 YEAR PROJECTED RECESSION DISTANCE. 60 YEAR PROJECTED RECESSION DISTANCE.

HIGH RISK EROSION AREA HIGH RISK EMUSION H (shading alongshore)

THESE AREAS ARE LEGALLY DEFINED BY THE SHORELANDS PROTECTION AND MANAGEMENT ACT, 1978 P.A. 215, AS AHENDED, AS BEING DREAT LAKES SHORELAND AREAS DOCUMENTED TO RECEDE AN AVERAGE OF DNE FOOT OR HORE PER YEAR.

CRITICAL DUNE AREAS



BARRIER DUNÉS
BARRIER DUNÉ FORMATIONS DESIGNATED
PLRISUANT TO 1976 P.A. 222



AREAS NOT INCLUDED IN DESIGNATED AREAS NOT INCLUDED IN USSIGNATED
BARRIER DUNE FORNATIONS THAT ARE
COMPOSED PRIMARILY OF DUNE SAND
AND EXHIBIT SEVERAL DUNE-LIKE CHARACTERISTICS.



EXEMPLARY DUME ASSOCIATED PLANT COMMUNITIES OUTSIDE DESIGNATED DUME FORMATIONS, MICHIGAN NATURAL FEATURES INVENTIONY REFERENCE CODE INDICATED.

### SOURCE

STATE OF HICHIGAN ACT 245 RECESSION RATE HAPS & ATLAS OF CRITICAL DUNE AREAS

### INFORMATION

MICHIGAN DEPARTMENT OF NATURAL RESOURCES LAND AND WATER MANAGEMENT DIVISION P.O. BOX 30828 LANSING, HI 48909 (517) 373-1950



OREAT LAKES DEFORMATION SYSTEM HICHERAN DEFARTHENT OF MATURAL RESOURCES LAND AND WATER HANNESHENT DIVIGION

Ø8-02-93 amended 12-16-93



HREAs identified North to South Date of Designation: December 20, 1993 HREA\* Parcel Identification Number Rate (feet/year) 30 vr PRD\* 60 yr PRD\* Sequence No. C3 1 51-11-570-052-00 1.2 50 85 **C**3 2 51-11-570-051-00 1.2 50 85 C3 3 51-11-570-050-00 1.2 50 85 **C3** 4 51-11-570-049-00 1.2 50 85 **C**3 5 51-11-570-048-00 1.2 50 85 C3 6 51-11-570-046-00 1.2 50 85 **C**3 7 51-11-570-045-00 1.2 50 85 **C3** 8 51-11-570-044-00 1.2 50 85 **C3** 9 51-11-570-043-00 1.2 50 85 **C3** 10 51-11-004-001-00 50 85 1.2 **C3** 11 51-11-004-003-00 1.2 50 85 C3 11.9 51-11-004-002-05 1.2 50 85 **C**3 12 51-11-004-002-00 1.2 50 85 C3 12.1 51-11-004-002-01 1.2 50 85 C3 13 51-11-004-004-10 1.2 50 85 **C**3 14 51-11-004-004-00 1.2 50 85

HREA\* - Some parcels may be in multiple HREAs due to their large size.

**C3** 

**C3** 

**C**3

15

16

17

30 yr PRD\* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for readily moveable structures including those structures 3,500 square feet or less and built on a basement, crawlspace or pilings. Additional restrictions may apply per Administrative Rules 281.21-22.

50

50

50

1.2

1.2

1.2

85

85

85

60 yr PRD\* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for non-readily moveable structures such as large structures and septic systems.

51-11-004-005-40

51-11-004-006-00

51-11-004-007-00

Designation runs with the land including subsequent splits. Absence of a property number does not guarantee the property is located outside of an HREA. Contact the Great Lakes Shorelands Unit, Water Resources Division, DEQ in Lansing or the local DEQ field office for assistance.

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HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
C3	17.1	51-11-004-007-02	1.2	50	85
C3	17.11	51-11-004-007-03	1.2	50	85
C3	17.12	51-11-004-007-04	1.2	50	85
C3	17.2	51-11-004-007-05	1.2	50	85
C3	18	51-11-004-009-00	1.2	50	85
C3	18.1	51-11-004-009-10	1.2	50	85
C3	18.11	51-11-004-009-15	1.2	50	85
C3	19	51-11-009-001-03	1.2	50	85
C3	19.1	51-11-009-001-10	1.2	50	85
C3	19.11	51-11-009-001-15	1.2	50	85
C3	21	51-11-009-003-00 northern 725 feet	4.4	145	280
C3	22	51-11-009-004-10	1.6	65	110
C3	23	51-11-009-004-20	1.6	65	110
C3	24	51-11-009-004-30	1.6	65	110
C3	25	51-11-009-004-40	1.6	65	110
C3	26	51-11-009-004-00	1.6	65	110
C3	27	51-11-009-004-50	1.6	65	110
C2	19.12	51-11-009-001-50	4.4	145	280
C2	20	51-11-009-002-00	4.4	145	280

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HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
C2	21.1	51-11-009-003-00 southern 675 feet	1.6	65	110
В3	28	51-11-016-003-00	1.0	45	75
В3	29	51-11-016-004-20	1.0	45	75
В3	30	51-11-016-004-00	1.0	45	75
В3	31	51-11-090-014-00	1.0	45	75
В3	32	51-11-090-013-00	1.0	45	75
В3	33	51-11-090-012-00	1.0	45	75
В3	34	51-11-090-011-00	1.0	45	75
В3	35	51-11-090-010-00	1.0	45	75
В3	36	51-11-090-009-00	1.0	45	75
В3	37	51-11-090-008-00	1.0	45	75
В3	38	51-11-090-007-00	1.0	45	75
В3	39	51-11-090-006-00	1.0	45	75
В3	40	51-11-090-005-00	1.0	45	75
В3	41	51-11-090-003-00	1.0	45	75
В3	42	51-11-090-002-00	1.0	45	75
В3	43	51-11-090-001-00	1.0	45	75
В3	44.1	51-11-330-007-00 southern 300 feet	4.6	155	290

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HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
В3	45	51-11-330-008-00	4.6	155	290
B2	44	51-11-330-007-00 northern 100 feet	1.0	45	75
B1	46	51-11-330-005-10	1.8	70	125
B1	47	51-11-330-006-10	1.8	70	125
B1	48	51-11-330-004-00	1.8	70	125
B1	49	51-11-330-003-10	1.8	70	125
B1	50	51-11-330-002-00	1.8	70	125
B1	51	51-11-330-074-00	1.8	70	125
B1	52	51-11-290-354-00	1.8	70	125
A1	73	51-11-210-006-00	1.5	60	105
A1	74	51-11-210-004-00	1.5	60	105
A1	75	51-11-210-003-00	1.5	60	105
A1	76	51-11-210-002-00	1.5	60	105
A1	77	51-11-210-001-00	1.5	60	105
A1	78	51-11-032-012-00	1.5	60	105
A1	79	51-11-032-013-00	1.5	60	105
A1	80	51-11-032-011-00	1.5	60	105
A1	81	51-11-032-010-00	1.5	60	105
A1	82	51-11-032-010-10	1.5	60	105

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