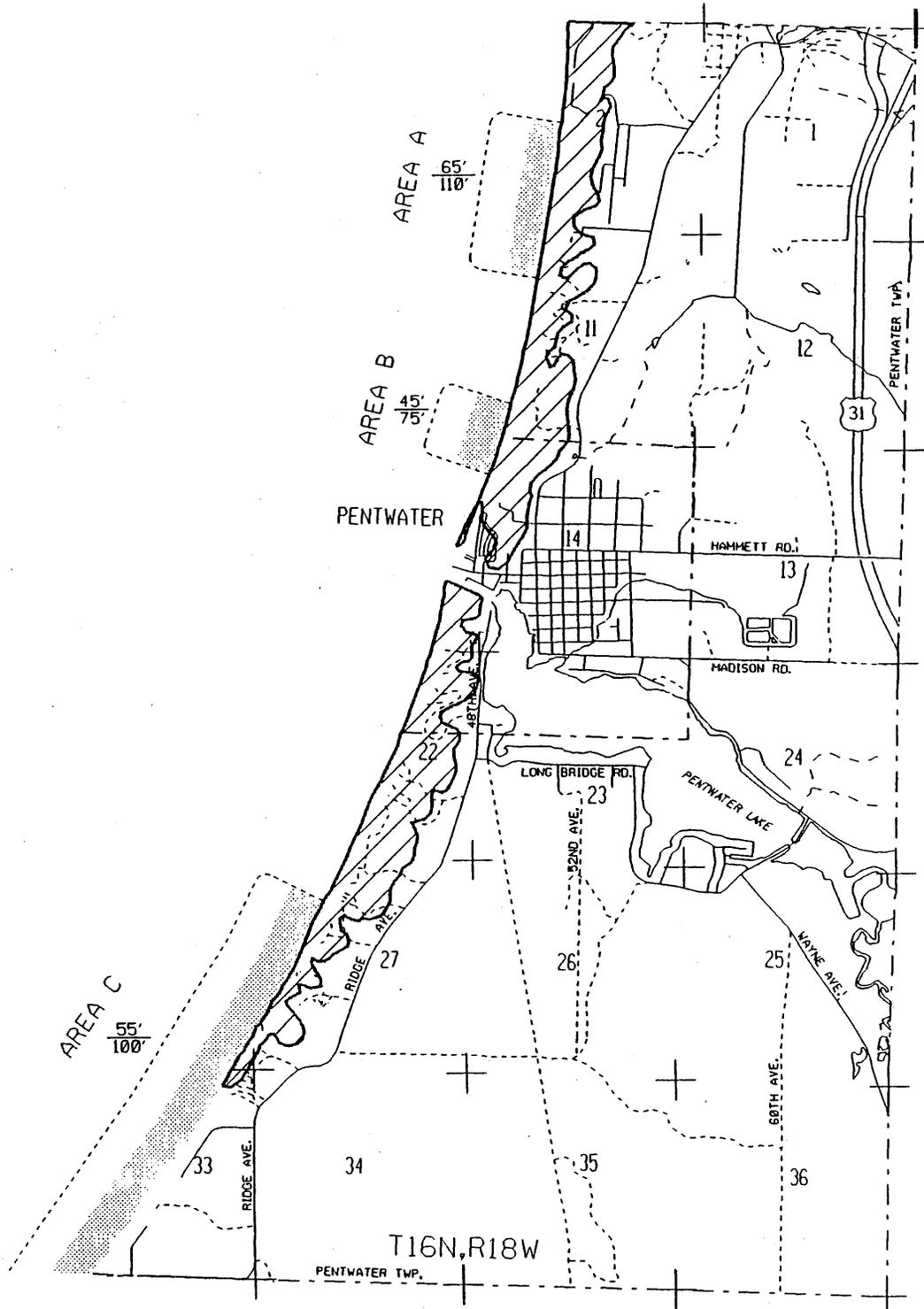
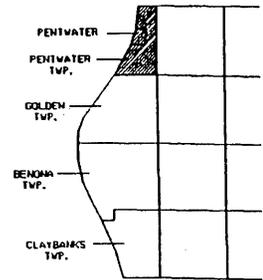


PENTWATER TOWNSHIP

HIGH RISK EROSION AREAS & CRITICAL DUNE AREAS

OCEANA COUNTY



HIGH RISK EROSION AREAS

THE NUMBER REPRESENTS, IN FEET, THE 30 YEAR PROJECTED RECESSION DISTANCE.
 THE NUMBER REPRESENTS, IN FEET, THE 60 YEAR PROJECTED RECESSION DISTANCE.
 HIGH RISK EROSION AREA (shading alongshore)

THESE AREAS ARE LEGALLY DEFINED BY THE SHORELANDS PROTECTION AND MANAGEMENT ACT, 1970 P.A. 245, AS AMENDED, AS BEING GREAT LAKES SHORELAND AREAS DOCUMENTED TO REcede AN AVERAGE OF ONE FOOT OR MORE PER YEAR.

CRITICAL DUNE AREAS

-  BARRIER DUNES
BARRIER DUNE FORMATIONS DESIGNATED PURSUANT TO 1976 P.A. 222
-  AREAS NOT INCLUDED IN DESIGNATED BARRIER DUNE FORMATIONS THAT ARE COMPOSED PRIMARILY OF DUNE SAND AND EXHIBIT SEVERAL DUNE-LIKE CHARACTERISTICS.
-  EXEMPLARY DUNE ASSOCIATED PLANT COMMUNITIES OUTSIDE DESIGNATED DUNE FORMATIONS, MICHIGAN NATURAL FEATURES INVENTORY REFERENCE CODE INDICATED.

SOURCE

STATE OF MICHIGAN ACT 245 RECESSION RATE MAPS & ATLAS OF CRITICAL DUNE AREAS

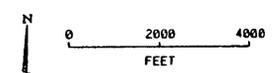
INFORMATION

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 LAND AND WATER MANAGEMENT DIVISION
 P.O. BOX 30828
 LANSING, MI 48909
 (517) 373-1958



GRAND LAKES INFORMATION SYSTEM
 MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 LAND AND WATER MANAGEMENT DIVISION

11-04-94
 Amended 10-18-94



Parcels in High Risk Erosion Areas of Pentwater Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	1	64-01-002-300-03	1.6	65	110
A1	2	64-01-002-300-04	1.6	65	110
A1	3	64-01-002-300-06	1.6	65	110
A1	3.1	64-01-002-300-08	1.6	65	110
A1	4	64-01-002-300-05	1.6	65	110
A1	5	64-01-710-007-00	1.6	65	110
A1	6	64-01-710-006-00	1.6	65	110
A1	7	64-01-710-005-00	1.6	65	110
A1	8	64-01-710-004-00	1.6	65	110
A1	9	64-01-710-003-00	1.6	65	110
A1	10	64-01-710-002-00	1.6	65	110
A1	11	64-01-710-001-00	1.6	65	110
A1	12	64-01-350-008-00	1.6	65	110
A1	13	64-01-350-007-00	1.6	65	110
A1	14	64-01-350-006-00	1.6	65	110
A1	15	64-01-350-005-00	1.6	65	110
A1	16	64-01-350-004-00	1.6	65	110
A1	17	64-01-350-003-00	1.6	65	110
A1	18	64-01-350-002-00	1.6	65	110

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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.

Parcels in High Risk Erosion Areas of Pentwater Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	19	64-01-350-001-00	1.6	65	110
A1	20	64-01-002-300-07	1.6	65	110
A1	21	64-01-451-001-00	1.6	65	110
A1	22	64-01-451-022-00	1.6	65	110
A1	23	64-01-451-004-00	1.6	65	110
A1	24	64-01-451-006-10	1.6	65	110
A1	25	64-01-451-008-00	1.6	65	110
A1	26	64-01-451-015-00	1.6	65	110
A1	27	64-01-451-011-00	1.6	65	110
A1	28	64-01-451-013-00	1.6	65	110
A1	29	64-01-452-001-00	1.6	65	110
A1	30	64-01-452-022-00	1.6	65	110
A1	31	64-01-452-004-00	1.6	65	110
A1	32	64-01-452-017-00	1.6	65	110
B1	33	64-01-516-014-00	1.0	45	75
B1	34	64-01-516-013-00	1.0	45	75
B1	35	64-01-516-011-00	1.0	45	75
B1	35.1	64-01-515-022-01	1.0	45	75
B1	36	64-01-515-020-00	1.0	45	75
B1	37	64-01-515-019-00	1.0	45	75

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Parcels in High Risk Erosion Areas of Pentwater Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
B1	38	64-01-515-017-00	1.0	45	75
B1	38.1	64-01-515-009-50	1.0	45	75
B1	39	64-01-515-009-00	1.0	45	75
B1	40	64-01-515-013-00	1.0	45	75
B1	41	64-01-514-013-00	1.0	45	75
C1	51	64-01-650-015-00	1.4	55	100
C1	52	64-01-650-016-00	1.4	55	100
C1	53	64-01-650-017-00	1.4	55	100
C1	54	64-01-650-018-00	1.4	55	100
C1	55	64-01-650-019-00	1.4	55	100
C1	56	64-01-650-020-00	1.4	55	100
C1	57	64-01-650-021-00	1.4	55	100
C1	58	64-01-650-023-00	1.4	55	100
C1	59	64-01-650-023-50	1.4	55	100
C1	60	64-01-650-025-00	1.4	55	100
C1	61	64-01-650-026-00	1.4	55	100
C1	62	64-01-650-027-00	1.4	55	100
C1	63	64-01-027-300-01	1.4	55	100
C1	63	64-01-027-300-01	1.4	55	100
C1	64	64-01-587-025-00	1.4	55	100

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Parcels in High Risk Erosion Areas of Pentwater Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
C1	65	64-01-587-022-00	1.4	55	100
C1	66	64-01-587-019-00	1.4	55	100
C1	67	64-01-584-031-00	1.4	55	100
C1	68	64-01-587-014-00	1.4	55	100
C1	69	64-01-587-013-00	1.4	55	100
C1	70	64-01-587-012-00	1.4	55	100
C1	71	64-01-587-011-00	1.4	55	100
C1	72	64-01-587-009-00	1.4	55	100
C1	73	64-01-586-006-00	1.4	55	100
C1	74	64-01-586-005-50	1.4	55	100
C1	75	64-01-586-005-00	1.4	55	100
C1	76	64-01-586-003-00	1.4	55	100
C1	77	64-01-586-001-00	1.4	55	100
C1	78	64-01-033-200-01	1.4	55	100
C1	79	64-01-670-016-00	1.4	55	100
C1	80	64-01-670-001-00	1.4	55	100
C1	81	64-01-670-017-00	1.4	55	100
C1	82	64-01-670-018-00	1.4	55	100
C1	83	64-01-670-019-00	1.4	55	100
C1	84	64-01-670-020-00	1.4	55	100

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Parcels in High Risk Erosion Areas of Pentwater Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
C1	85	64-01-670-021-00	1.4	55	100
C1	86	64-01-670-022-00	1.4	55	100
C1	87	64-01-670-023-00	1.4	55	100
C1	88	64-01-670-024-00	1.4	55	100
C1	89	64-01-670-025-00	1.4	55	100
C1	90	64-01-670-026-00	1.4	55	100
C1	91	64-01-670-027-00	1.4	55	100
C1	92	64-01-670-028-00	1.4	55	100
C1	93	64-01-670-029-00	1.4	55	100
C1	94	64-01-670-030-00	1.4	55	100
C1	95	64-01-670-031-00	1.4	55	100
C1	96	64-01-033-400-05	1.4	55	100
C1	97	64-01-033-400-01	1.4	55	100
C1	98	64-01-033-400-07	1.4	55	100
C1	99	64-01-130-007-00	1.4	55	100
C1	100	64-01-130-006-00	1.4	55	100
C1	101	64-01-130-005-00	1.4	55	100
C1	102	64-01-130-004-00	1.4	55	100
C1	103	64-01-130-003-00	1.4	55	100
C1	104	64-01-130-002-00	1.4	55	100

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HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
C1	105	64-01-130-001-00	1.4	55	100
C1	106	64-01-033-400-04	1.4	55	100

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