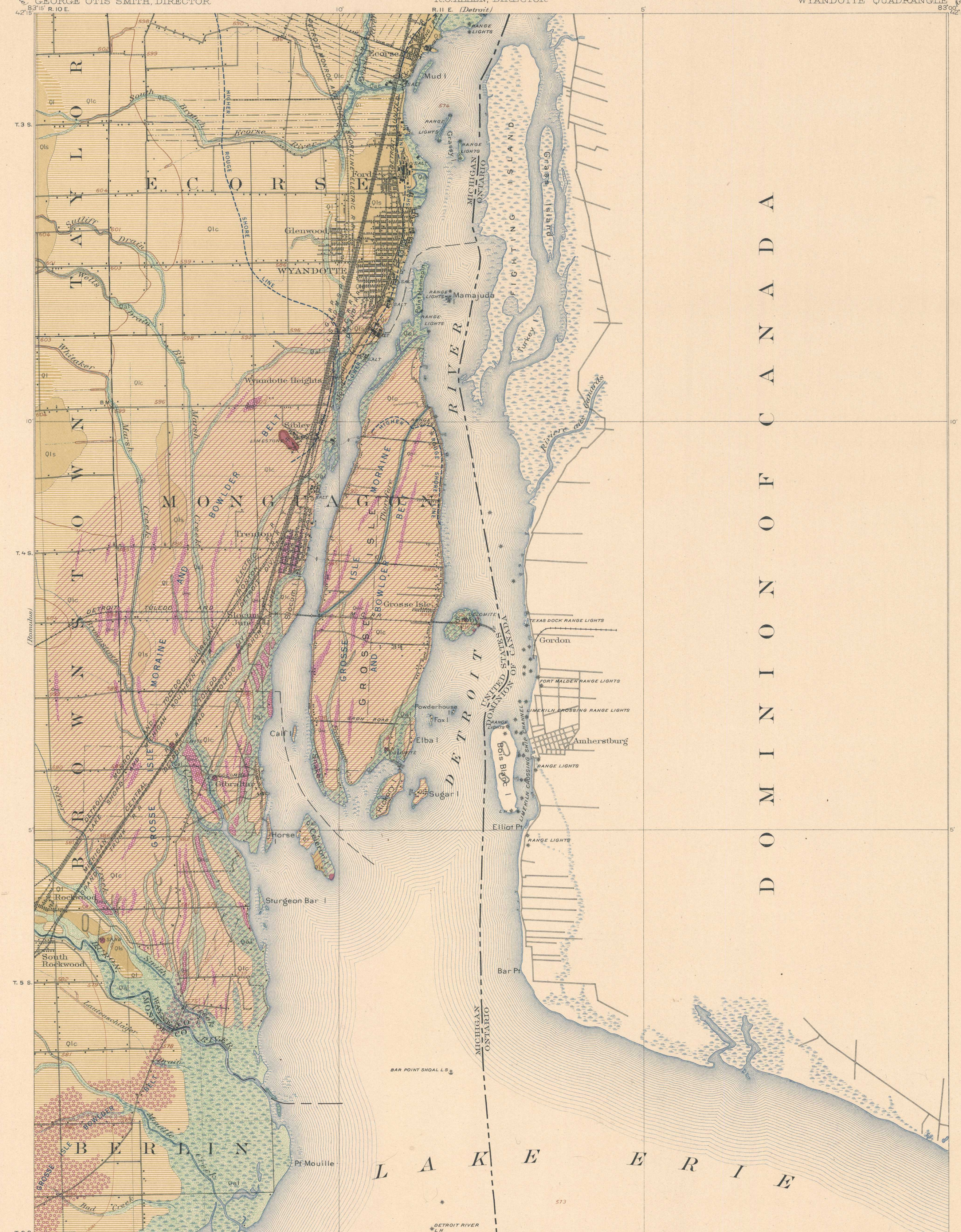


AREAL GEOLOGY

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

STATE OF MICHIGAN
BOARD OF GEOLOGICAL SURVEY
R. C. ALLEN, DIRECTOR

MICHIGAN
WYANDOTTE QUADRANGLE



LEGEND

SEDIMENTARY ROCKS

(Areas of subequal deposits are shown by patterns of dots and circles; subequal deposits by patterns of parallel lines)

Qal

Alluvium

(Loam, silt, and mud, in part filling channels of Detroit River; also, in part, includes mud marks and only larger areas shown)

Qls

Lacustrine sand in bed of glacial lakes

(includes some beach and dune sands)

Ql

Lacustrine loamy soil in bed of glacial lakes

(admixture of sand and clay)

Qlc

Chiefly lacustrine clay in bed of glacial lakes

(more or less reworked moraine clay)

Qm

Moraine largely covered by thin lake sediments

(Gravelly moraine deposited in glacial lake; moraine, and its upper portion reworked lacustrine sand and clay; moraine ridges of exposed moraine clay)

Qb

Boulder belts

(scattered boulders and cobbles deposited by glaciers along its border; also cover much of moraine areas)

Qbr

Bedrock

(small areas of Huron limestone, Detroit River dolomite, and Silurian sandstone, exposed chiefly in quarries; the distribution of the bedrock formations shown in figure in the text)

Q

Quarries

(limestone, dolomite, and sand; A indicates abandoned quarry)

Qsac

Deep wells

(from which brine is pumped from rock salt beds; only principal wells located)

Q

Economic note

Limestone and dolomite for construction work and road material; limestone for lime, sand, lime brick, cement, soda ash, glass, and best sugar manufacture are obtained from quarries in bedrock. Sand for glass manufacture, sanding surfaces, and scouring purposes is quarried from Silurian sandstone. Brine for manufacture of salt, soda ash, and alkali is obtained from rock salt beds by deep wells. Rock salt for cattle, preserving fish, and meats, and independent purposes can be obtained by deep shafts. Clay for brick and tile manufacture can be obtained from Qlc; sand for building and sand lime brick from Qls.

Q

Glacial striae

Solid line latest ice movement; dashed lines earlier ice movements.

Q

Recent series

Wisconsin stage of Pleistocene series (includes some Recent)

Deposits in glacial lakes Lundy and Range

Deposits of Huron, Erie glacial lake

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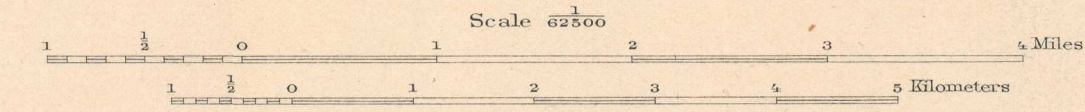
Deposits of Huron, Erie glacial lake

Deposits of Huron, Erie glacial lake

H.M. Wilson, Geographer.
Chas. E. Cooke, in charge of section.
Topography by Chas. E. Cooke.
Assistants, J. T. McCoy and J. N. Williamson.
Control by U.S. Lake Survey.
Surveyed in 1903-1904.

SURVEYED IN COOPERATION WITH THE STATE OF MICHIGAN.

APPROXIMATE MEAN DECLINATION 1916.



Scale 62500

Contour interval 20 feet.

Datum is mean sea level.

Edition of Jan. 1916.

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

Geology by W.H. Sherzer.
Surveyed in 1911.

SURVEYED IN COOPERATION WITH THE STATE OF MICHIGAN.