



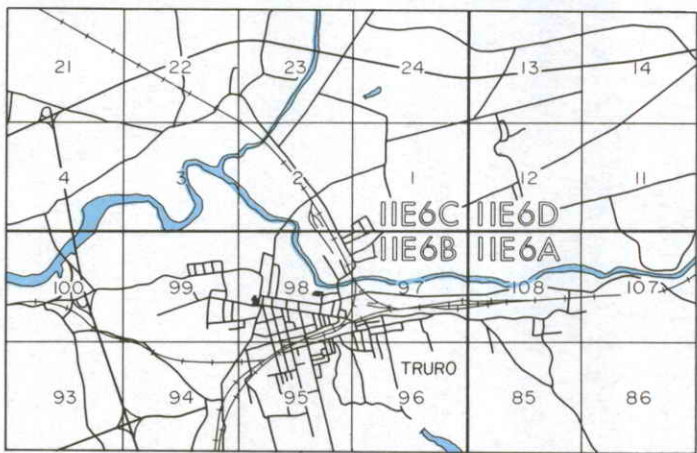
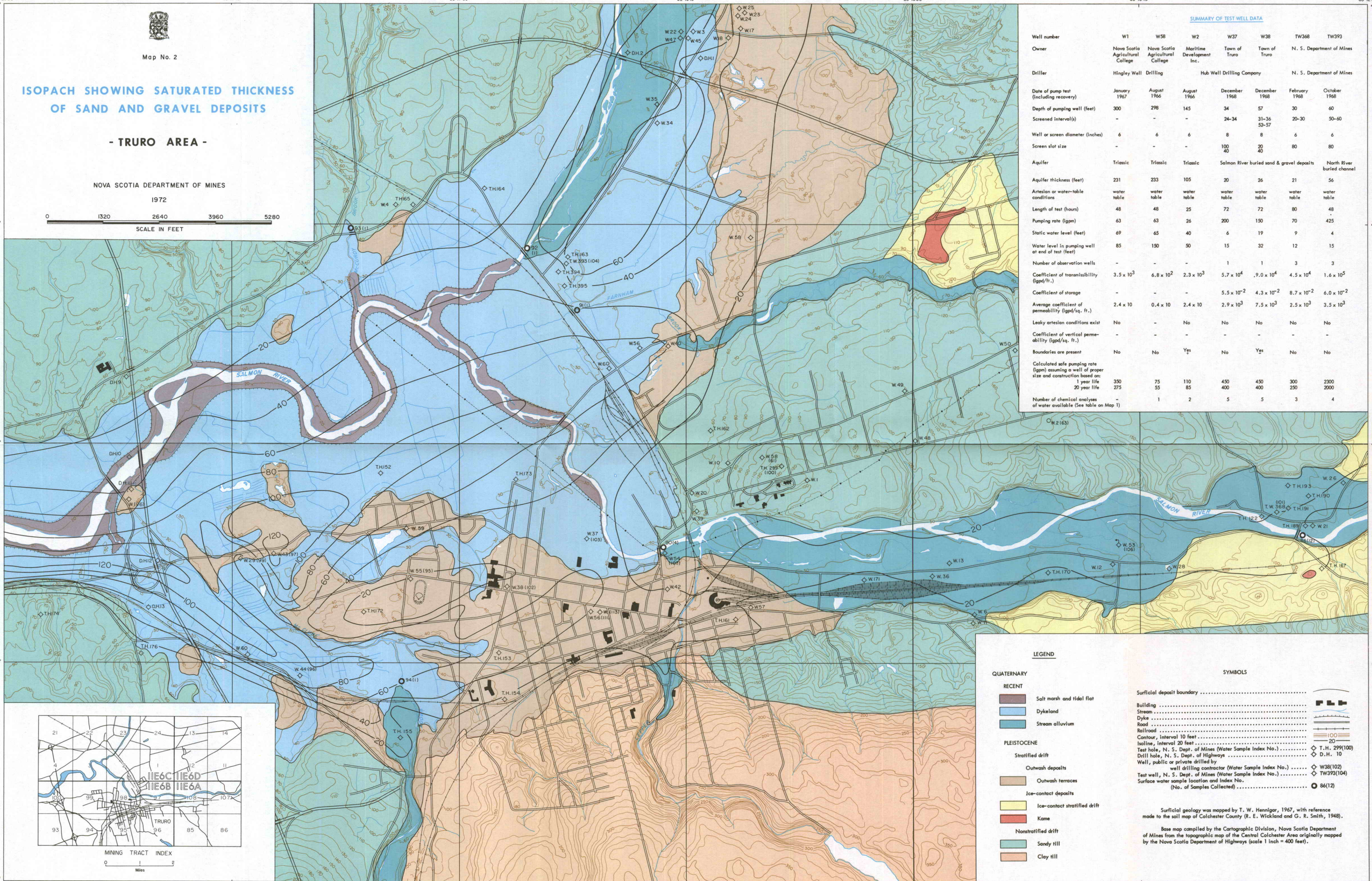
Map No. 2

ISOPACH SHOWING SATURATED THICKNESS OF SAND AND GRAVEL DEPOSITS

- TRURO AREA -

NOVA SCOTIA DEPARTMENT OF MINES
1972

0 1320 2640 3960 5280
SCALE IN FEET



MINING TRACT INDEX
0 1 2
Miles

SUMMARY OF TEST WELL DATA

Well number	W1	W58	W2	W37	W38	TW368	TW393
Owner	Nova Scotia Agricultural College	Nova Scotia Agricultural College	Maritime Development Inc.	Town of Truro	Town of Truro	N. S. Department of Mines	N. S. Department of Mines
Driller	Hingley Well Drilling	Hingley Well Drilling	Hub Well Drilling Company	Hub Well Drilling Company	Hub Well Drilling Company	N. S. Department of Mines	N. S. Department of Mines
Date of pump test (including recovery)	January 1967	August 1966	August 1966	December 1968	December 1968	February 1968	October 1968
Depth of pumping well (feet)	300	298	145	34	57	30	60
Screened interval(s)	-	-	-	24-34	31-36 52-57	20-30	50-60
Well or screen diameter (inches)	6	6	6	8	8	6	6
Screen slot size	-	-	-	100 40	20 40	80	80
Aquifer	Triassic	Triassic	Triassic	Salmon River buried sand & gravel deposits	Salmon River buried sand & gravel deposits	North River buried channel	North River buried channel
Aquifer thickness (feet)	231	233	105	20	26	21	56
Artesian or water-table conditions	water table	water table	water table	water table	water table	water table	water table
Length of test (hours)	48	48	25	72	72	80	48
Pumping rate (gpm)	63	63	26	200	150	70	425
Static water level (feet)	69	65	40	6	19	9	4
Water level in pumping well at end of test (feet)	85	150	50	15	32	12	15
Number of observation wells	-	-	-	1	1	3	3
Coefficient of transmissibility (lgpd/ft.)	3.5×10^3	6.8×10^2	2.3×10^3	5.7×10^4	9.0×10^4	4.5×10^4	1.6×10^5
Coefficient of storage	-	-	-	5.5×10^{-2}	4.3×10^{-2}	8.7×10^{-2}	6.0×10^{-2}
Average coefficient of permeability (lgpd/sq. ft.)	2.4×10	0.4×10	2.4×10	2.9×10^3	7.5×10^3	2.5×10^3	3.5×10^3
Leaky artesian conditions exist	No	-	No	No	No	No	No
Coefficient of vertical permeability (lgpd/sq. ft.)	-	-	-	-	-	-	-
Boundaries are present	No	No	Yes	No	Yes	No	No
Calculated safe pumping rate (gpm) assuming a well of proper size and construction based on:							
1 year life	350	75	110	450	450	300	2300
20 year life	275	55	85	400	400	250	2000
Number of chemical analyses of water available (See table on Map 1)	-	1	2	5	5	3	4

LEGEND

QUATERNARY

- RECENT**
- Salt marsh and tidal flat
 - Dykeland
 - Stream alluvium
- PLEISTOCENE**
- Stratified drift**
- Outwash deposits
 - Outwash terraces
- Ice-contact deposits**
- Ice-contact stratified drift
 - Kame
- Nonstratified drift**
- Sandy till
 - Clay till

SYMBOLS

- Surficial deposit boundary
- Building
- Stream
- Dike
- Road
- Railroad
- Contour, interval 10 feet
- Isoline, interval 20 feet
- Test hole, N. S. Dept. of Mines (Water Sample Index No.)
- Drill hole, N. S. Dept. of Highways
- Well, public or private drilled by well drilling contractor (Water Sample Index No.)
- Test well, N. S. Dept. of Mines (Water Sample Index No.)
- Surface water sample location and Index No. (No. of Samples Collected)

Surficial geology was mapped by T. W. Hennigar, 1967, with reference made to the soil map of Colchester County (R. E. Wickland and G. R. Smith, 1948).

Base map compiled by the Cartographic Division, Nova Scotia Department of Mines from the topographic map of the Central Colchester Area originally mapped by the Nova Scotia Department of Highways (scale 1 inch = 400 feet).