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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THE WATER TABLE AS OF APRIL 1950 IN SOUTHBOLD TOWNSHIP,
SUFFOLK COUNTY, LONG ISLAND, N. Y.

By

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Prepared by the United States Geological Survey

in cooperation with the

Suffolk County Board of Supervisors

and the

Suffolk County Water Authority

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Since 1932 the United States Geological Survey has cooperated with the Suffolk County Board of Supervisors in an intensive study of ground-water resources of Suffolk County, N. Y. The continuing program has included the systematic measurement of water levels in shallow observation wells in Suffolk County. The purpose of these measurements has been in part to map the water table and to evaluate its fluctuations, whether natural ones resulting from variations in rates of precipitation, evapotranspiration, or artificial ones resulting from pumping for municipal, industrial, agricultural, or other useful purposes. The contour map of the water table presented in this report represents the result of planned expansion of a growing network of observation wells eastward on the mainland of Suffolk County and then into the North Fork, the local name of the eastern half of the Riverhead Township and all of Southold Township.

The opportunity to collect data on water levels in Southold Township at public-supply, irrigation, fire-protection, and domestic wells was made possible also through the kindness and courtesy of town and village officials, water companies, and many private individuals. Villages of Mattituck, Cutchogue, Southold, and Orient allowed the use of their fire-protection wells which expedited greatly the ground-water investigational program in Southold Township.

Southold Township, having a fingerlike outline, is essentially a low-lying area of about 45 square miles divided roughly into three segments, each of which is surrounded on nearly all sides by salt water. It is composed of highly permeable glacial deposits that readily absorb more than

half of the annual precipitation, which ranges from 33 inches at Greenport to 45 inches at Cutchogue. Thus the surface runoff is practically negligible.

Most of the area in the township is under cultivation for potatoes and cauliflower because the loamy soil and favorable climate allow the production of many bumper crops. During the past 10 years, the practice of supplemental irrigation has spread rapidly in the North Fork, has increased crop yields, and during dry periods as in 1949, has provided insurance against heavy crop losses.

In addition to supplying water for irrigation, withdrawals are made by public-supply wells in Greenport and Southold, and by many domestic and fire-protection wells in Southold Township.

The water table in Southold Township in Suffolk County, N. Y., in April 1950 ranged from mean sea level to about 4 feet above in the Laurel and Cutchogue areas, and to about 2 feet above in the Southold, East Marion, and Orient areas. The attached water-table contour map is based on data from 35 wells, at most of which water-level measurements have been made monthly since the summer of 1949, and from 43 additional wells and ponds, at most of which water-level measurements were made only in April 1950. Where the density and coverage of wells is adequate, the contours are drawn as full lines. Dashed contour lines indicate areas where there is some uncertainty as to the altitude of the water levels. A contour interval of 1 foot is used, except in the Greenport and East Marion areas, where a half-foot interval is used to define comparatively heavily pumped areas.

The water-table contour map is the first of its kind for Southold Township and indicates the terminal area of a planned gradual expansion eastward of a network of observation wells from the Nassau County line to the eastern tip of the North Fork in Suffolk County. By 1943 the network had reached the longitude of Yaphank (Jacob, 1945) and by the end of 1946,

most of the area west of Riverhead was covered by a network of observation wells (Luszczynski, 1947). During the summer of 1950 the network was expanded into the South Fork of Suffolk County.

Detailed geologic information obtained from some of the wells included in this report is available in bulletins prepared by Leggette (1937), Roberts (1945), and Suter and others (1949). Data on the salinity (chloride content) of ground water in the North Fork of Suffolk County was compiled by Roberts (1949), and by Luszczynski and Hoffman (1951).

Available geologic, hydrologic, salinity, and pumpage data are being assembled by Hoffman for a forthcoming report entitled, "Safe yield of ground-water aquifers in the North Fork, Suffolk County, N. Y."

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TABLE 2. LOGS OF WELLS (*) IN VICINITY OF SOUTHOLD,
SUFFOLK COUNTY, LONG ISLAND, NEW YORK

<u>S 169.</u>	Thickness (feet)	Depth (feet)
Sand, white coarse, clean	30	30
Sand, red, coarse	3	33
Sand, white, coarse, clean	10	43
Sand, fine	5	48
Sand, white, coarse, clean	9	57
Sand, dark, very fine	5	62
Sand, coarse	21	83
Sand, very fine, some mica	7	90

<u>S 170.</u>	Thickness (feet)	Depth (feet)
Sand and gravel, yellow, coarse, clean	48	48
Sand, black, very fine, much mica	16	64
Sand, yellow, coarse	11	75
Sand, yellow, fine	10	85
Sand, white, fine, clean	9	94
Sand, dark, very fine	14	108
Sand, dark, fine, much mica	4	112
Clay	56	168

<u>S 171.</u>	Thickness (feet)	Depth (feet)
Sand and gravel	15	15
Clay	15	30
No record	10	40
Sand and gravel	14	54

<u>S 172.</u>	Thickness (feet)	Depth (feet)
Clay and stones	20	20
Sand and gravel	64	84

<u>S 518.</u>	Thickness (feet)	Depth (feet)
Loam	4	4
Clay and stones	17	21
Sand and gravel	75	96

TABLE 2. LOGS OF WELLS (*) IN VICINITY OF SOUTHOID,
SUFFOLK COUNTY, LONG ISLAND, NEW YORK (continued)

S 597. SFB	Thickness (feet)	Depth (feet)
Sand and gravel	37	37
S 598. SFB	Thickness (feet)	Depth (feet)
Sand and gravel	37	37
S 599. SFB	Thickness (feet)	Depth (feet)
Sand and gravel	45	45
S 2320.	Thickness (feet)	Depth (feet)
Top soil and loam, sandy	3	3
Sand, coarse, brown.	3	6
Sand, fine.	3	9
Clay, sandy	3	12
Sand, coarse.	5	17
Clay, sandy	8	25
Sand, dirty	5	30
Sand, coarse.	3	33
Sand, coarse, and gravel.	3	36
Sand, medium, coarse.	8	44
S 2712.	Thickness (feet)	Depth (feet)
Top soil.	1	1
Loam, gravel and stones	3	4
Clay, sandy, and stones	21	25
Hardpan	24	49
Sand, coarse, and gravel.	19	68
S 3045.	Thickness (feet)	Depth (feet)
Top soil.	1	1
Loam.	2	3
Sand, red	17	20
Sand and gravel	7	27
Sand, red	3	30
Sand, coarse, and gravel.	25	55

TABLE 2. LOGS OF WELLS (*) IN VICINITY OF SOUTHBOLD,
SUFFOLK COUNTY, LONG ISLAND, NEW YORK (continued)

S 3970. SPD	Thickness (feet)	Depth (feet)
Sand and gravel	34	34
S 3971. SPD	Thickness (feet)	Depth (feet)
Sand and gravel	44	44
S 4091.	Thickness (feet)	Depth (feet)
Sand and gravel	60	60
Clay	60	120
Sandy clay	24	144
Salt below clay		
S 4163.	Thickness (feet)	Depth (feet)
Fine sand	11	0-11
Coarse sand and gravel	34	11-45
S 4239.	Thickness (feet)	Depth (feet)
Fine sand and gravel	69	69
S 4267.	Thickness (feet)	Depth (feet)
Top soil	3	3
Loam and stones	7	10
Sand and gravel	12	22
Brown sand	7	29
Sand and gravel	13	42
S 4464.	Thickness (feet)	Depth (feet)
Loam and clay	11	11
Fine sand	19	30
Sand and gravel	21	51

TABLE 2. LOGS OF WELLS (*) IN VICINITY OF SOUTHOID,
SUFFOLK COUNTY, LONG ISLAND, NEW YORK (continued)

S 4942.	Thickness (feet)	Depth (feet)
Sand and gravel	10	10
Clay and gravel	62	72
Sand and gravel	15	87
S 5208.	Thickness (feet)	Depth (feet)
Fine sand mixed with clay	55	55
S 6059.	Thickness (feet)	Depth (feet)
Fine sand with clay	40	40
Sand and gravel	38	78
S 6193.	Thickness (feet)	Depth (feet)
Clay and stone	45	45
Red sand and gravel	30	75
S 7123.	Thickness (feet)	Depth (feet)
Loam	5	5
Coarse sand	10	15
Coarse sand and large gravel	45	60
Coarse sand and medium gravel	15	75
Coarse sand and small gravel	5	80
Medium sand	5	85
S 7265.	Thickness (feet)	Depth (feet)
Hardpan	20	20
Sand and gravel	52	72
S 7294.	Thickness (feet)	Depth (feet)
Loam, clay, stones	9	9
Coarse sand and gravel	42	51

TABLE 2. LOGS OF WELLS (*) IN VICINITY OF SOUTHOOLD,
SUFFOLK COUNTY, LONG ISLAND, NEW YORK (continued)

<u>S 7686.</u>	Thickness (feet)	Depth (feet)
Hardpan.	10	10
Sand and gravel.	71	81
<u>S 7688.</u>	Thickness (feet)	Depth (feet)
Sand and gravel.	70	70
<u>S 7689.</u>	Thickness (feet)	Depth (feet)
Loam	10	10
Sand and gravel.	40	50
<u>S 7905.</u>	Thickness (feet)	Depth (feet)
Loam	11	11
Sand and gravel.	76	87

* For locations and data please use table 1. For logs of other wells in the North Fluke section of Suffolk County, please refer to New York State Water Power and Control Commission Bulletin GW-14, "Records of Wells in Suffolk County, N.Y." and Bulletin GW-9, "Record of Wells in Suffolk County, N.Y.", Supplement 1.

TABLE 3. WATER-LEVEL MEASUREMENTS IN VICINITY OF SOUTHOLD,
SUFFOLK COUNTY, LONG ISLAND, NEW YORK

S 597. Measuring point, top of casing, 12.05 ft. above m.s.l., about 1 ft. above land surface.

<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July 13, 1949	10.57	+1.48
Aug. 5, "	10.60	+1.45
" 24, "	10.69	+1.36
Sept. 29, "	10.72	+1.33

S 598. Measuring point, top of casing, 11.40 ft. above m.s.l., about 2 ft. above land surface.

<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July 13, 1949	9.02	+2.38

S 599. Measuring point, top of casing, 12.77 ft. above m.s.l., about 3 ft. above land surface.

<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July 13, 1949	11.86	+0.91
Aug. 5, "	11.89	+ .88
" 24, "	11.85	+ .92
Sept. 29, "	11.81	+ .96

S 3970. Measuring point, top of casing, 10.04 ft. above m.s.l., about 1 ft. above land surface.

<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July 13, 1949	8.20	+1.84
Aug. 5, "	8.19	+1.85
" 24, "	8.41	+1.63

S 3971. Measuring point, top of casing, ____ ft. above m.s.l., ____ ft. above land surface.

<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July 13, 1949	7.37	

TABLE 3. WATER-LEVEL MEASUREMENTS IN VICINITY OF SOUTHOID,
SUFFOLK COUNTY, LONG ISLAND, NEW YORK (continued)

S 4267. Measuring point, top of casing, 16.47 ft. above m.s.l., about $1\frac{1}{2}$ ft. above land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July	13, 1949	13.14	+3.33
Aug.	5, "	13.37	+3.10
"	25, "	13.63	+2.84

S 4942. Measuring point, edge of brick wall in pit where motor is located, 39.37 ft. above m.s.l., 0.7 ft. below land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m.s.l.</u>
Aug.	9, 1949	36.32	+3.05
"	24, "	36.45	+2.92
Sept.	30, "	36.77	+2.60

S 6193. Measuring point, top of nipple connection into elbow, 12.96 ft. above m.s.l., about 1.5 ft. above land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
Aug.	24, 1949	10.54	+2.42
"	25, "	10.48	+2.48

S 6522. Measuring point, top of casing, 14.06 ft. above m.s.l., about 1 ft. above land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July	13, 1949	11.61	+2.45
Aug.	5, "	11.68	+2.38
"	24, "	11.81	+2.25

S 6523. Measuring point, top of casing, 4.44 ft. above m.s.l., about $1\frac{1}{2}$ ft. above land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July	13, 1949	4.35	+0.09
Aug.	5, "	4.31	+ .13
"	24, "	4.45	+ .01

TABLE 3. WATER-LEVEL MEASUREMENTS IN VICINITY OF SOUTHOLD,
SUFFOLK COUNTY, LONG ISLAND, NEW YORK (continued)

S 6524. Measuring point, top of casing, 6.24 ft. above m.s.l., 1.3 ft. land surface.

<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July 13, 1949	4.60	+1.64
Aug. 5, "	4.71	+1.53
" 24, "	4.82	+1.42
Sept. 29, "	4.88	+1.36

S 6525. Measuring point, top of casing, 16.80 ft. above m.s.l., about 1 ft. above land surface.

<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July 13, 1949	10.74	+6.06
Aug. 5, "	13.93	+2.87 affected by pumping
" 25, "	14.36	" " "

S 6526. Measuring point, top of casing, 7.00 ft. above m.s.l., about 1½ ft. above land surface.

<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July 13, 1949	4.45	+2.55
Aug. 24, "	4.76	+2.24

S 6527. Measuring point, top of casing, ____ ft. above m.s.l., ____ ft. above land surface.

<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July 13, 1949	9.39	

S 6528. Measuring point, top of casing, 15.72 ft. above m.s.l., about 2 ft. above land surface.

<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
July 13, 1949	13.40	+2.32
Aug. 5, "	14.51	+1.21
" 24, "	14.32	+1.40
Sept. 29, "	14.44	+1.28

TABLE 3. WATER-LEVEL MEASUREMENTS IN VICINITY OF SOUTHOLD,
SUFFOLK COUNTY, LONG ISLAND, NEW YORK (continued)

S 6529. Measuring point, top of casing, 25.98 ft. above m.s.l., and 3 ± ft. below land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
Aug.	8, 1949	23.50	+2.48
"	25, "	23.58	+2.40

S 6530. Measuring point, edge of brick top of well, 64.73 ft. above m.s.l., 0.4 ft. below land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
Aug.	9, 1949	62.51	+2.22
"	24, "	62.69	+2.04
Sept.	29, "	63.22	+1.51

S 6531. Measuring point, top of brick well, 29.19 ft. above m.s.l., about 1 ft. below land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
Aug.	8, 1949	26.79	+2.40
"	25, "	26.94	+2.25

S 6532. Measuring point, edge of brick, top of well, 45.85 ft. above m.s.l., 0.3 ft. below land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
Aug.	15, 1949	42.98	+2.87
"	24, "	43.05	+2.80
Sept.	30, "	43.40	+2.45

S 6533. Measuring point, top of coupling, 24.05 ft. above m.s.l., about 2 ft. above land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
Aug.	24, 1949	23.20	+0.64

P-a. Measuring point, top of casing driven into bed of pond, 3.16 ft. above m.s.l., about 1.5 ft. above land surface.

	<u>Date</u>	<u>Depth to Water</u>	<u>m. s. l.</u>
Sept.	7, 1949	0.95	+2.21

TABLE 4

CHLORIDE CONTENT (SALINITY) OF WELL WATER
IN VICINITY OF TOWN OF SOUTHOLD,
SUFFOLK COUNTY, NEW YORK

Well Number	Owner	Location	Chloride Content in p. p. m.					
S 169	North Fork Water Supply	South Harbor Lane: & Rt. 25, Southold	-	-	-	-	30	9/13/49
S 170	North Fork Water Supply	South Harbor Lane: & Rt. 25, Southold	-	-	-	-	30	9/13/49
S 3045	North Fork Water Supply	South Harbor Lane: & Rt. 25, Southold	-	-	-	-	40	9/13/49
S 4091	Baron Hill	Youngs Ave. Southold	24 9/5/45	30 7/12/46	30 8/13/47	37 9/13/48	40 9/13/49	
S 4163	North Fork Water Supply	South Harbor	-	-	-	-	40	9/13/49
S 4239	Steve Koroleski	Main Road Peconic	30 9/5/45	30 7/11/46	30 8/13/47	30 8/6/48	26 9/14/49	
S 4484	M. J. Shipuleski	Southold	-	-	-	35 9/14/48	24 9/14/49	
S 5208	John Bauer	Peconic	-	-	-	20 9/10/48	-	
S 6059	Anton J. Kull	So. of Indian Neck Lane, Peconic	-	-	-	49 9/10/48	48 9/15/49	
S 6193	S. Doroski	North Road, Southold	-	-	-	25 9/13/48	30 8/2/49	

GROUND WATER WELLS IN THE VICINITY OF TOWN OF SOUTHOLD,
SOUTHOLD TOWNSHIP, SUFFOLK COUNTY,
LONG ISLAND, NEW YORK

Tab 1

Table 1
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State Well Number	Owner	Location	Date Drilled	Well Diameter (inches)	Depth of Well (feet)	Altitude of Land Surface (feet)	Depth to Water (feet) a/	Pumping Test Rate (gpm)	Drawdown Time (feet) (hours)	Specific Capacity	Rated Capacity (gpm)	Use
48-189	North Fork Water Supply	South Harbor La. & Rt. 25	Before 1929	10	90	20 d/	17	250	-	-	250	W,C
48-170	do	do	Before 1929	10	168	5 d/	-	-	-	-	250	W,C
48-371	A. Williams	a/	-	-	156	10 d/	-	100	-	-	-	D
48-172	C. Beckhold	Hortons Pt. a/	-	-	-	75 d/	68	-	-	-	-	D
48-418	J. Biscoff	Sound Ave. a/	7/1/25	4	96	40 d/	72	10	8	-	-	D
48-597	Southold Fire District	South Harbor La.	5/19/36	6	87	10	9	400	16	3	25	b/ F,O
48-598	do	Rt. 25 nr. Peconic La.	5/22/36	6	87	9	9	442	16	3	28	b/ F,O
48-599	do	South Harbor La.	5/20/36	6	45	10	15	374	12	3	31	b/ F,O
48-2320	do	Laughing Water Development a/	9/27/40	6	44	10 d/	-	-	-	-	-	F
48-2712	Joell M. Bie	Sound Ave. bet. Hortons Pt. & La. a/	6/10/41	4	68	20 d/	50	5	-	2	-	D
48-5045	North Fork Water Supply	South Harbor La. & Rt. 25	11/19/41	8	55	20 d/	17	250	20	4	12	W,C
48-3970	Southold Fire District	Indian Neck Rd. & Leslie Pl.	8/9/44	6	34	9	8	450	12	2	38	b/ F,O
48-3971	do	Pine Neck Rd.	8/12/44	6	44	-	8	330	17	3	19	b/ F,O
48-4091	Barron Hill	Youngs (Rail- road) Ave.	12/23/44	8	43	17	15	500	8	4	36	I,C
48-4108	North Fork Water Supply	South Harbor La. & Rt. 25	9/11/45	6	45	-	8	120	5	4	24	W,C
48-4259	Steve Koroleski	Rt. 25 nr. Indian Neck Rd.	6/25/45	10	39	-	19	500	45	1	11	I,C
48-4267	Southold Fire District	Peconic Lane nr. North Rd.	1/19/46	6	42	15	13	300	16	3	19	b/ F,O
48-4404	M. J. Shipuleski	Jacob's Rd.	1/19/46	6	51	-	12	420	17	3	25	I,C
48-4342	J. McCabe	Horton's La. & No. Country Road	-	80	39	40	56	-	-	-	5	D,O
48-5206	John Bauer	Rt. 25 nr. Peconic Rd.	7/26/46	8	55	-	7	-	-	-	450	I,C
48-5644	Leon Sawicki	Youngs Ave. & North Rd.	5/26/47	2 (6 pts.)	26	-	7	300	18	1	17	I
48-6058	Anton J. Kull	Indian Neck Rd.	10/29/47	6	78	-	3	400	17	8	24	I,C
48-6198	S. Doroski	Soundview Ave. nr. Kennys Rd.	5/26/48	10	75	11	8	500	12	2	42	I,O,C
48-6282	Southold Fire District	Indian Neck Rd. & Rt. 25	a/	6	-	13	-	-	-	-	-	b/ F,O
48-6523	do	Haven Rd. off Indian Neck Rd.	a/	6	-	4	-	-	-	-	-	b/ F,O
48-6524	do	Bayview Av.	a/	6	-	5	-	-	-	-	-	b/ F,O
48-6525	do	Bowery Lane nr. North Rd.	a/	6	-	16	-	-	-	-	-	b/ F,O
48-6526	do	Bowery Lane nr. North Rd.	a/	6	-	6	-	-	-	-	-	b/ F,O
48-6527	do	End of Pine Neck Rd.	a/	6	-	-	-	-	-	-	-	b/ F,O
48-6528	do	North Rd. nr. No. Country Road	a/	6	-	14	-	-	-	-	-	b/ F,O
48-6529	Universalist Church	Tuckers Lane & Rt. 25	-	1 1/2	-	29	-	-	-	-	-	A,O
48-6530	M. Bledsoe	Lighthouse Rd.	-	30	135	65	-	-	-	-	-	D,O
48-6531	C. J. Gration	Bollesau Ave. nr. Rt. 25	-	30	29	28	-	-	-	-	-	A,O
48-6532	Conway Bros.	Hortons La. nr. North Road	-	30	45	46	-	-	-	-	-	D,O
48-6533	Barron Hill	Youngs Ave.	-	1 1/2	-	22	-	-	-	-	-	A,O
48-7128	Gagen Bros.	Youngs Ave. nr. North Rd.	11/6/48	10	84	-	38	500	15	4	33	I
48-7255	J. Sepenoski	Peconic La. nr. North Rd.	1/8/49	-	72	-	6	360	15	8	24	I
48-7294	Frank Akseis	Rt. 25 nr. Bowery La.	3/12/49	4	50	-	12	260	16	4	16	I
48-7686	A. P. Sepenoski	a/	7/20/49	8	81	-	35	350	-	-	350	I
48-7688	Diller Brothers	a/	-	10	70	-	40	500	20	8	25	I
48-7689	John Simeoni	a/	6/22/49	6	50	-	9	250	-	-	-	I
48-7905	Kenneth Tuthill	a/	10/4/49	8	87	-	-	425	20	8	21	I
-	John Ploek	a/	7/22/49	4	80	-	12	-	-	-	-	I

NOTE: Above data compiled for records of the New York State Water Power & Control Commission and the U. S. Geological Survey

a/ Reading taken by driller when well completed

b/ Constructed for fire use for 200 gpm pumps

c/ Drilled probably before 1933 since no report filed with New York State

d/ Water Power and Control Commission

e/ Altitudes taken from publication "Records of Wells in Suffolk County, N.Y." (GW-4 and GW-5); all others from level data obtained by the U. S. Geological Survey during the summer of 1949.

f/ Location not known accurate enough for plotting

g/ Logs of wells available

- No data

A Abandoned well

C Chloride well

D Domestic well

F Fire well

I Irrigation well

O Observation well

W Water supply well

