

Reference

ate and assess a sum of money for the purpose of establishing courses in vocational education in the High School, or do or act.

Voted to refer the matter to a committee of three to be appointed by the Moderator.

Article 13. To see if the Town will vote to amend the vote passed under Article 24 of the warrant for the Annual Town Meeting of 1924, so as to read as follows:

"Voted that the Town appropriate and assess the sum of six thousand dollars to acquire by purchase or otherwise a parcel of land with or without buildings, and to erect suitable buildings, or alter existing buildings thereon, said land to be acquired and said buildings to be erected for the use of the Highway Department and for other municipal purposes, and that the Selectmen shall be the committee therefor with full power to purchase the land and to contract for the buildings," and re-appropriate said sum of six thousand dollars now in the treasury, or do or act.

Voted to lay the matter on the table.

Article 14. To see if the Town will make a further appropriation for the purpose named in Article 13, and determine in what manner the money shall be raised.

Voted to pass over the Article.

Article 15. To see if the Town will authorize the Trustees of the Public Library to sell the water equipment no longer in use since the installation of town water.

Voted to authorize the Trustees of the Public Library to sell the water equipment no longer in use since the installation of town water.

Article 16. To see what action the Town will take in regard to the bequest from Jonathan M. Parmenter for the establishment of a hospital.

Voted to refer the matter to a committee of five to be appointed by the Moderator.

Article 17. To see if the Town will vote to appropriate and assess the sum of two thousand dollars to paint and repair Town Hall, or do or act.

Voted to pass over the Article.

Article 18. To see if the Town will authorize the Water Board to connect the water system in Cochituate

with the Water system in Wayland Center, or do or act.

Voted to pass over the Article.

Article 19. To see if the Town will vote to borrow a sum of money for the extension of the water system for a period not to exceed fifteen years and to authorize the issuance of notes therefor, or do or act.

Voted to pass over the Article.

Article 20. To see if the Town will vote to extend the water system to the Northerly part of the Town or take any action relative thereto, and appropriate and assess money therefor, or do or act.

Voted that the Moderator appoint a committee of three to investigate the matter.

Article 35 was taken up at this time.

Article 35. To see if the Town will vote to reduce the number of Water Commissioners from five to three and determine how such a reduction shall be effected, or do or act.

Voted that the vote whereby the Town voted to increase the number of Water Commissioners to five be and is hereby rescinded.

Article 21. To see if the Town will vote to rescind or amend that part of the vote under Article 14 passed at the meeting of July 26, 1926 whereby the number of paid hydrants was limited to "sixty hydrants in Precinct 1 and sixty hydrants in Precinct 2" or do or act.

Voted to pass over the Article.

Voted to adjourn meeting until March 14, 1928.

Meeting adjourned at 11.15 P. M.

Rept by
Mass Bd. of Health
1928

WAYLAND WATER SUPPLY

Owned Municipally

Authorized: Acts 1878, Chapter 80.
System installed: Two sources—two systems.
Supply pumped: Diesel engines
Population (1925): 2,255
Supervision: Board of Water Commissioners
Examined: May, 1928
By: C. I. Sterling, Jr.

Introductory

The Town of Wayland was authorized by the Legislature under Chapter 80 of the Acts of 1878 to supply itself with water from some source within the town limits. An old mill dam on Snake Brook was raised several feet and the pond formed was used as a source of water supply in the Cochituate village district of the town of Wayland. As this source is a gravity supply and the source of supply at a comparatively low elevation, the pressure in Cochituate Village is very low ranging from about 8 to 27. In 1913 an 8-inch emergency connection was made to the Natick supply in order to increase the pressure when necessary for fire protection.

The quality of the water from this Snake Brook Reservoir is not always of the best due to its large area of shallow flowage and bordering swamp lands causing disagreeable odors, tastes and color in the water. The Cochituate Village supply is only available to approximately half of the town of Wayland because of the low elevation of Snake Brook Reservoir. In 1921 the town of Wayland was the recipient of the sum of \$225,000 under the will of Mr. Jonathan M. Parmenter for the construction of a water supply system for Wayland Center. Thirty wells were driven south of Baldwin Pond and the entire system installed by the Hydraulic Development

Company of Boston. The two systems are now owned by the town of Wayland but are not connected, the nearest mains being approximately two miles apart.

Description of the Systems

Cochituate Village: The Snake Brook Reservoir, having a watershed area of 0.67 square miles, is divided into two small reservoirs by an earthen dike. The upper basin has an area of 4.6 acres and the lower 7.6 acres. The two basins are connected by a 6-inch pipe which is only opened in case of low water in the lower basin. The water is supplied to Cochituate Village by gravity through a 10-inch cast iron main running from the lower basin. The reservoir is divided into two basins because the lower basin has a better quality of water due to the better kind of soil on its bottom and the better preparation it received for the storage of water so that the water from the upper basin is only used when necessary.

Wayland Center: The water supply is obtained from a set of thirty driven wells ranging from 35 to 65 feet in depth located near Baldwin Pond and pumped through a 10-inch main to a steel standpipe located on Reeves Hill. This standpipe has a capacity of 500,000 gallons and is located at such an elevation that it can supply water to both Wayland and Wayland Center and Cochituate Village at a suitable pressure for fire protection.

Examination of Watershed

Water Supply of: Cochituate Village.

Snake Brook Reservoir Watershed.

Area 0.67 Square Miles
Area of land on watershed owned by town .. None
Topography Hilly
Soil Ledge, gravel, clay

Area of:

Open fields and pasture Small part
Swamp 32 acres
Timber land 75%

Sanitary Survey:

Total population on watershed 19
Density of population per square mile 27
Number of horses 0
Number of cows 2

General sanitary conditions on watershed Good

Examination of Watershed of Snake Brook Reservoir Water Supply of Cochituate Village

No. 1 House and barn 1—1 Septic tank. 100 ft. from reservoir.

No. 2 house 5. Removable can container safe distance.

No. 3 House 1. Removable can container.

4 House and barn, 3—1. Privy and cesspool for sink drainage. safe distance.

No. 5 house and barn, 9. Privy, safe distance.

No. 6. House (deserted).

Examination of Ponds and Storage Reservoirs

Water Supply of Cochituate Village

Snake Brook Reservoir

Location: Easterly part of town of Wayland approximately 2 miles northeast of Cochituate Village.

Date of construction 1878

Area at flow time 12.2 acres

Area of watershed including water surface .67 sq. mi

Per cent of water surface (flow line 2.9%

Total storage capacity 16,000,000 gallons

Maximum depth 17 feet

Average depth 6 feet

Amount of shallow flowage (less than 3 ft.) 7.0 A.

Land owned by town around reservoir None

No records kept as to height of water.

Intake to Mains:

Location Southern part of reservoir

Description 10-Inch cast iron pipe

Dept. of intake above bottom 15 feet

Elevation of intake above bottom 2 feet

Screens None

Bottom of Reservoir:

Extent of preparation for storage of water: The lower reservoir has been cleaned out but nothing has been done to the upper reservoir.

Nature of soil on bottom, Mostly clay, some ledges and hardpan.

Reservoir can be drawn off to clean a large part of it.

Description of Dam

Type Earthen

Length 117 feet

Width of top 15 feet

Width of spillway 8 feet

Depth of spillway 2 feet

Flash boards cannot be used.

No apparent leakage through dam.

General condition of dam Good

Measures for the Protection of the Supply

Cochituate Village Supply

The local Board of Health exercises no authority over the source of supply.

Inspectors are not maintained around the reservoir.

The superintendent makes a general inspection of the watershed once a month.

No boating or fishing are permitted in the reservoir.

No ice is cut on the reservoir.

Important Legislative Acts

1878 Chapter 80. Town may supply itself with water. May take water from any source within town limits.

1903 Chapter 316 Weston Water Company may extend pipes into Wayland. Wayland may purchase the Weston Water Company.

Conclusion

The water supply of Wayland Center is safe and adequate for the future needs of the Town of Wayland for many years if the population of the town increases at its present rate. The water supply of Cochituate Village is in all probability safe but the quality is not always of the best and the pressure altogether too low for even domestic purposes in some localities. It is recommended that Snake Brook Reservoir be eliminated as a source of water supply for Cochituate Village and in its place take water from the driven wells which supply Wayland Center at present. This would necessitate the laying of approximately two miles of mains either along Main Street or Connecticut Path.

General sanitary conditions on watershed Good

**Examination of Watershed of Snake Brook Reservoir
Water Supply of Cochituate Village**

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Board and placed in operation.

The details in regard to this system are set forth in the report of the Superintendent.

Mr. John F. Foley was appointed Assistant Superintendent.

Signed

WALTER S. BIGWOOD, Chm.
WALTER C. SMITH
FRANK I. COOPER
HARRY W. CRAIG
ALFRED C. DAMON, Clerk

Annual report
1928

REPORT OF SUPERINTENDENT OF WATER WORKS

PH -
and no ... satisfactory man-
ore acceptance.
working order
... No leaks
from mains have been found since new water works were
taken over. During last inspection of gates and hy-
drants only one hydrant was found with a valve that
needed replacing. Measures have been taken of gate
valves and service box locations and recorded.

There were 66 service taps made 6185 ft. of service
pipe was laid in connection with the same.

Including water takers that formerly received water
from Weston there are 102 buildings with water con-
nection to new system.

Cochituate System

New service connections	14
Services renewed or repaired	10
Feet of service pipe laid	505

There was one main leak during the year caused by
a cracked pipe on West Plain Street.

Construction

An extension of 700 feet of 4 inch cast iron bolted
pipe as made from junction of French Avenue and East
Pond Street to end of the avenue and a hydrant was in-
stalled. All services on the avenue were connected to the
new main. The old two inch supply pipe was discontin-
ued from main on East Pond St.

An extension of 243 feet of 2 inch pipe was made on
Lodge Road from main on Castle Gate Road.

A. A. LAMARINE Superintendent