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In the Matter of the Application of the INCORPORATED
VILLAGE OF GARDEN CITY for Approval of Its Acqui-
sition of a Source of Water Supply

Water Supply Application No. 698

(Water Power and Control Commission, August 4, 1932)

Application approved as modified.

BY THE COMMISSION.—George L. Hubbell, mayor of the incorporated village of Garden City in the town of Hempstead and county of Nassau, acting on behalf and in the name of said municipality, on June 9, 1932, made application to the Water Power and Control Commission for approval of the plans of said village for the acquisition or taking of certain additional water supplies, the taking or condemnation of lands for said new or additional sources of water supply and of the construction proposed in connection therewith. This application was filed in the office of the Commission on June 15, 1932.

After due notice published in the *Garden City News* the hearing on this application was held in the village hall, No. 110 Seventh street, Garden City, Nassau county, on July 13, 1932, at 10 o'clock (daylight saving time) in the forenoon. At this hearing the Commission considered the petition, maps and plans submitted, examined witnesses and heard arguments in favor of the project. The petitioner was represented by George L. Hubbell, Jr., village attorney. No objections were filed and no one appeared in opposition.

On July 13, 1932, the Commission caused an engineering inspection to be made of the sites of the proposed works.

Garden City now asks us to ratify various acts taken

by it in the past and to authorize it to develop certain additional sources of water supply when such action may become necessary. More specifically we are asked to give our approval to: the acquisition by the city in 1923 of the waterworks plant and system of Garden City Company; wells Nos. 2, 4, 5 and 6 put down at various times by Garden City Company and by the village; the sinking of additional wells on plots of ground reserved for the purpose in the grounds of Garden City Golf Club.

After due study of the petition and its exhibits, the evidence and arguments given at the hearing and the report of the engineers of the Commission on this application, it appears as follows:

Garden City is an incorporated village in the town of Hempstead, Nassau county, lying adjacent to the northerly boundary of that town, near the center of the county and between the villages of Mineola and Hempstead. Within the limits of this village are the Nassau County court house, a college and several private schools, all or parts of four golf courses, Nassau County Hospital, county fair grounds, 2,100 houses, ten apartment houses and the publishing plant of the Doubleday, Doran & Company, Inc. The village also supplies water to Roosevelt Field. This is largely a residential and suburban community.

Garden City Company installed a public waterworks system in Garden City some sixty years ago. Water originally was obtained from well No. 1, situated on a plot of land near the center of the village and north-east of the intersection of Eleventh street with Cherry Valley and Hilton avenues. This is a dug well, fifty feet in diameter by forty feet deep, capable of yielding 250,000 gallons daily. Adjacent to it a pumping station was erected and equipped with two steam pumping engines of five and six million gallons daily

capacity respectively. Well No. 2 was put down in 1911. This is a Maury well, ninety feet deep, with a six-foot caisson. Water is pumped from it at the rate of two million gallons daily by an electric turbine pump set in the well. Water is pumped to well No. 1. Well No. 2 is 9,500 feet southeast of well No. 1. In 1907 well No. 3 was put down, 9,500 feet northwest of well No. 1. This was a twenty-inch well, ninety feet deep, with a capacity of 450 gallons per minute. It has been abandoned and is not included in the present application. A distribution system of the usual type was constructed in the village and has been enlarged, extended and strengthened from time to time. Pressures are maintained by a 662,000 gallon steel stand-pipe in the village of Mineola, north of the pumping station. This structure is thirty feet in diameter by 125 feet high.

In 1923 the plant and property under discussion were purchased by the village of Garden City. In 1927 well No. 4, 400 feet southwest of well No. 1, was put down. This well is ninety-two feet deep with thirty-eight-inch and twenty-five-inch casings. It is a Layne well and water is pumped from it by an electrically operated turbine pump of 1.152 million gallons daily capacity. Water is discharged into well No. 1. In 1927 well No. 5, a Layne well, eighty-two feet three inches deep with thirty-eight-inch and twenty-five-inch casings and a capacity of 1.238 million gallons daily, was put down, 250 feet northwest of well No. 1. Water from it is pumped to well No. 1. In 1931 the pumping station was reconstructed. The original steam equipment is maintained as a reserve, but for normal use two electrically operated centrifugal pumps of one and one-half and four million gallons daily capacity were installed. In 1932 well No. 6 was put down, 175 feet southeast of well No. 1. This is a

Layne well, 368 feet deep with eighteen-inch and twelve-inch casings and a capacity of 2.16 million gallons daily. This well can be pumped directly into the distribution system; ordinarily it pumps into well No. 1. All water pumped by the main pumping station is chlorinated. All water pumped into well No. 1 is aerated to some extent in that basin.

In addition the village has reserved three well sites in the grounds of Garden City Golf Club. These are shown on the map as being 1,000 feet northeast, 1,700 feet northwest and 2,500 feet northwest of well No. 1. The applicant wishes authority to develop these reserved sites and also to be allowed to put down as many wells as may be practicable on the well field already in use.

The present consumption of water in Garden City is about two million gallons daily, but increases to three million gallons daily in the dry season. The maximum is about four million gallons daily. The various wells have been put down in order to keep up with increasing demands for water. Just prior to the sinking of well No. 6, the village was threatened with an acute water shortage. At the present time there is sufficient water available to meet the needs of the people of this community, but, if it continues to grow, additional sources of supply will be needed.

Garden City now obtains water from two levels, one about ninety feet below the surface and one from a deeper stratum penetrated by well No. 6 at a depth of 368 feet. That well originally was sunk to the Lloyd gravels at a depth of 528 feet, but the water proved undesirable and the casing was pulled back to its present level. Any new wells that may be put down will probably pierce this same stratum.

Apparently the shallow wells do not penetrate a clay blanket. The quality of the water pumped from them

has at times been such that the health authorities have required it to be chlorinated. Water from the deeper strata, which is drawn from below certain clay beds, is entirely satisfactory from the sanitary point of view, but needs aeration or treatment to make it satisfactory aesthetically and to reduce its corrosive action on the water mains. The village owns or controls fairly liberal areas about these wells and a cast iron sewer has been installed in Cherry Valley avenue near the well field. If the shallow wells are to continue to be used, it would seem advisable that a similar sewer be installed in Eleventh street along the village property. If this is done, there seems no reason why the quality of water from any well put down on this field should not be good, provided that no well is sunk within 100 feet of the boundary of the property or within 150 feet of a tile sewer. Wells sunk on the reserved areas in the golf course will be satisfactory from the sanitary point of view as long as the golf course is used as such. Should it be cut up into building lots, it will be necessary for the village to acquire larger areas and impose suitable regulations in order that the water from these wells may be satisfactory.

A portion of the village of Garden City is now supplied with water by Jamaica Water Works Company. This is the northwesterly corner of the village.

Virtually all the area northwest and south of Garden City is served by public water supply systems, water for which is obtained from wells put down in various places. It does not appear that the carrying out of this project will in any wise affect the water supply interests of these areas, nor that it will deprive the territory to the east of needed sources of water supply.

The legal damages which may be caused by the execution of the plans of the petitioner do not appear to be such as to require any special consideration or

legislative enactment in order that they may be equitably determined and paid.

The Commission finds it to be necessary, to protect the water supply and the interests of the applicant and of the inhabitants of the territory supplied by it with water, that the application, maps and plans submitted should be modified to conform to the following:

1. The Commission hereby ratifies and approves the various acts heretofore taken by Garden City Company and the village of Garden City in: the construction and use by Garden City Company of wells Nos. 2 and 4; the acquisition of the water supply plant and property of Garden City Company by the village of Garden City in 1923; the construction and use by the village of wells Nos. 5 and 6.

2. Authority is hereby granted, subject to the various sanitary regulations below, for the sinking, as required, of additional wells on the well fields now owned and used by the village and on the three reserve sites indicated on the maps filed with the application on the grounds of Garden City Golf Club north of the present pumping station. These wells may be sunk to any depth, not deeper than the water bearing horizon penetrated by well No. 6 at approximately 370 feet below the surface.

3. Chlorination of all water pumped from wells Nos. 1, 2, 4 and 5 shall be continued.

4. The village must own or control all land within 100 feet of any well used by it and no source of pollution of ground or ground water may be constructed or maintained within such distance. By ownership, restrictions or other form of control, the village must prevent the pollution of ground or ground water within 200 feet of any well. Any sewer less than 150 feet from any well must be of cast iron pipe laid with tight joints.

5. No new well may be used as a source of water supply unless and until results of analyses of water pumped therefrom shall have been submitted to and approved by this Commission.

6. This Commission reserves the right to require the taking of additional precautions to protect the purity of these waters, the treatment or purification of the water pumped from any well, if future analyses or inspections shall show need for so doing.

7. Well No. 3 shall be dismantled, disconnected from the waterworks system and shall not, without further action by this Commission, be considered as an authorized source of water supply.

The Water Power and Control Commission having given due consideration to the said petition and its exhibits, the proof and arguments submitted at the hearing and the reports of its engineers thereon, determines and decides as follows:

First. That the application, maps and plans submitted are modified as set forth above and, as so modified, are the plans hereinafter mentioned.

Second. That the plans proposed are justified by public necessity.

Third. That said plans provide for the proper and safe construction of all work connected therewith.

Fourth. That said plans provide for the proper protection of the supply and the watershed from contamination and that filtration is at the present time unnecessary.

Fifth. That said plans are just and equitable to the other municipalities and civil divisions of the State affected thereby and to the inhabitants thereof, particular consideration being given to their present and future necessities for sources of water supply.

Sixth. That said plans make fair and equitable provisions for the determination and payment of any

and all legal damages to persons and property, both direct and indirect, which will result from the execution of said plans or the acquiring of said lands.

Wherefore, the Water Power and Control Commission does hereby approve the said application, maps and plans of the village of Garden City as thus modified.

In the Matter of the Application of the LATHAM WATER DISTRICT for the Approval of Its Acquisition of a Source of Supply and Its Financial and Engineering Plans for the Construction of a Water Supply System Sixth Extension. Boght Corners and Sicker Road Extensions

Water Supply Application No. 699

(Water Power and Control Commission, July 28, 1932)

Application approved as modified.

BY THE COMMISSION.—Franklin H. Austin, Sylvester J. Denison and Charles C. Wing, water commissioners of Latham water district, of the town of Colonie and county of Albany, acting on behalf and in the name of said district, on June 9, 1932, made application to the Water Power and Control Commission for approval of the plans of the petitioner for the extension of its supply and distribution mains into certain recently made extensions of said water district, of the supply of water from sources now owned and operated by the district in such extensions and of the construction proposed in connection therewith. This application was filed in the office of the Commission on June 20, 1932.

After due notice, published in the *Troy Record*, the hearing on this application was held in Pitts hose house, Lathams Corners, on July 14, 1932, at 10 o'clock