

**REGIONAL GROUND-WATER STUDY  
TOWN OF GOSHEN  
ORANGE COUNTY, NEW YORK**

Prepared for  
Orange County Water Authority  
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### **MAP**

Groundwater Inventory Map ("GIM")

**REGIONAL GROUND-WATER STUDY  
TOWN OF GOSHEN  
ORANGE COUNTY, NEW YORK**

**EXECUTIVE SUMMARY**

The collected data indicates that the current and projected yield capacities of 3.2 mgd exceed the year 2020 projected water demand of 1.467 mgd for the Town of Goshen. The surplus water supply is estimated to be approximately 1.77 mgd.

The Village of Goshen is in a water deficit situation. The current water demand is 1.1 mgd while the current maximum yield capacity is 0.73 mgd. The difference results in a current deficit of 0.37 mgd. The year 2020 projected water demand is 1.64 mgd. The difference results in a year 2020 water deficit of 0.91 mgd; based on estimated current and proposed maximum yield capacities.

**INTRODUCTION**

The Orange County Water Authority retained Hudson Engineering Associates, P.C. to conduct a regional ground-water study for the Town of Goshen. The emphasis of Hudson Engineering Associates' investigation was to:

- ! inventory existing and proposed municipal and community water supplies within the Town;
- ! the adequacy of existing and proposed water supplies and their ability to meet present and future demands;
- ! review zoning and land use; and
- ! review existing and potential ground-water contamination problems within the Town, which may affect existing and proposed water supplies.

**EXISTING WATER SUPPLY SYSTEMS**

**Town Water Districts**

**Hambletonian Park Water District No. 1**

**Well Supply in Service**

Mr. Gerald MacDonald, P.E., Planning Board Engineer, reported the Hambletonian Park Water District currently operates four production wells completed in bedrock aquifers (Groundwater Inventory Map ["GIM"], Wells GT-1, GT-2, GT-3, and GT-4). The present well yield capacities and available data are presented on Tables 1 and 2A (MacDonald, 1993).

**Arcadia Hills Water District No. 2**

**Well Supply in Service**

Presently, eight wells are active and operating in the Arcadia Hills Water District No. 2. Well Nos. 51 (GIM, Well GT-14) and 52 (GIM, Well GT-15) presently produce the largest yield of 62 and 56 gpm, respectively. The remaining 6 wells (GIM, Wells GT-6, GT-7, GT-10, GT-11, GT-12, and GT-13) presently produce from 4 to 20 gpm. All 8 wells are completed in bedrock aquifers. The well data are presented on Tables 1 and 2B.

**Well Supply Not in Service**

Well Nos. 1, 8, and 8A (GIM, Wells GT-5, GT-8, and GT-9, respectively)

also were completed in the bedrock aquifer, and have been abandoned due to low yield. The well data are presented on Table 1 (MacDonald, 1993).

**Public Water Supply Systems**

**Village of Goshen**

The main sources of water supply for the Village of Goshen are the Prospect Reservoir and Greenhill Reservoir, which have a maximum yield capacity of 0.625 mgd. Water is processed through a rapid sand filter at the Reservoir Treatment Plant and is then chlorinated. The capacity of the treatment plant is 1.5 mgd.

The safe yield of the Village of Goshen surface water supply system was estimated in three reports, (CDM, 1982), (Pimie, 1987), and (Corless, 1977). The combined reports is that the safe yield capacity of the Village water system is on the order of 0.5 mgd to 0.75 mgd, and an average value of 0.625 mgd should be used for planning purposes (Manganaro, 1994). The average value of 0.625 mgd is shown in Table 3B.

**Well Supply in Service**

The Village of Goshen has two wells, Greenhill Well No. 1 (GIM, Well GT-43) and Greenhill Well No. 2 (GIM, Well GT-44), which are in service. Water from these two wells is pumped to Prospect Reservoir and processed through the Reservoir Treatment Plant. The yield from these wells is included in the maximum yield capacity of the reservoirs. During emergency situations, water is pumped from Glenmere Lake to Prospect Reservoir via a temporary piping network. The available well data are presented on Tables 1 and 2M.

**Proposed Well Supply Not in Service**

The Village of Goshen has two wells which can be additional sources of water to supplement the reservoir. The County Civil Defense Well (GIM, Well GT-45), which has a safe yield of 144,000 gpd, is in service as a stand by well. This well has a pulsation chlorinator wired to it. The piping network needs additional work.

The Goshen High School Well (GIM, Well GT-46) is currently inactive; however, the Village has started the construction process to bring the well and equipment up to today's standards. The wells should be in service by Spring 1995. Available well data are shown on Table 1 (OCHD, 1993) (Rutishauser, 1

**New York State Training School**

**Well Supply in Service**

Well No. 1, (GIM, Well GT-16) adjacent to a black dirt farm, is completed in a sand and gravel aquifer and produces 30 gpm. Based on information from the Orange County Health Department, the normal usage is 30,000 gpd. There is a 250,000 gallon storage tank at the facility. The well data are shown on Tables 1 and 2C.

**Well Supply Not in Service**

Well No. 2 (GIM, Well GT-17) is not equipped at this time, but is an active well that could be utilized. This well is also near the black dirt farm and is completed in a sand and gravel aquifer. The available well data are shown on Tables 1 and 2C.

**Proposed Well Supply Not in Service**

GT-2

A new source, Well No. 3 (GIM, Well GT-53), is being drilled approximately 160 feet from the existing wells. The New York State Office of General Services (OGS) is in charge of this project. The available well data are shown on Table 1 (NYS Training Center, 1993).

### **Mid-Hudson Psychiatric Center**

#### **Well Supply in Service**

Two wells (GIM, Wells GT-19 and GT-20) presently operate to supply the Mid-Hudson Psychiatric Center. The wells are operated alternately and are seldom used together. Both wells are completed in a bedrock aquifer. The existing system was put into operation in the 1930s. Well data are presented in Tables 1 and 2D.

#### **Well Supply Not in Service**

Two wells currently are equipped, but inactive. Both wells are completed in a bedrock aquifer. Well No. 1 (GIM, Well GT-18) produced a low yield, less than 20 gpm. No well yield information was available for Well No. 4 (GIM, Well GT-21). Available well data are shown on Table 1 (OCHD, 1993).

### **Orange County Home & Infirmary**

The main water supply source is from the Village of Florida, via a buried pipeline.

#### **Well Supply in Service**

Two wells are available for use at the Orange County Home & Infirmary. Both wells are completed in rock aquifers. Well No. 3 (GIM, Well GT-24) currently yields 45 gpm. Well No. 1 (GIM, Well GT-22) has a current yield of 50 gpm. Well data are shown on Tables 1 and 2E.

#### **Well Supply Not in Service**

Well No. 2 (GIM, Well GT-23) has been abandoned. No data or pertinent information is available.

#### **Proposed Well Supply Not in Service**

At the time of this writing Well No. 4 (not shown on the GIM) is being developed. No well data or pertinent information is available at this time. When Well No. 4 is developed, The Orange County Home and Infirmary plan to convert the Village of Florida water to an auxiliary source (HEA, 1993).

### **Echo Lake Site**

#### **Proposed Supply Not in Service**

The Town of Wallkill developed two wells in 1989 on the Echo Lake Site (GIM, Wells GT-36 and GT-37). Both wells are inactive and are not equipped. Water from these wells is high in iron and manganese. Treatment will be required. Well 1 (GIM, Well GT-36) is under the influence of surface water. A Water Taking Permit is pending. The available well data are shown on Tables 1 and 2J (EA, 1993).

### **Private Water Supply Systems**

#### **Scotchtown Park**

#### **Well Supply in Service**

Two wells serve Scotchtown Park. Well No. 1 (GIM, Well GT-25) was completed in 1959 in a bedrock aquifer. Well No. 2 (GIM, Well GT-26) is close to Well No. 1, but it is unknown what type of aquifer it is completed in. Available well data are shown on Tables 1 and 2F (MacDonald, 1993).

#### **Stone Hedge**

#### **Well Supply in Service**

Two wells completed in a bedrock aquifer serve the Stone Hedge Water Supply System (GIM, Wells CT-27 and CT-28). There is a 35,600 gallon storage tank. The two wells provide 60 gpm. The well data and available information are shown on Tables 1 and 2G (MacDonald, 1993).

### **Sorrento Cheese Company**

#### **Well Supply in Service**

Sorrento Cheese Company currently operates Well No. 2 (GIM, Well 30) as a production well, completed in a rock aquifer. The well is approximately 50' away from a stream. They have an auxiliary connection to the Village of Goshen. The available well data and information are shown on Tables 1 and 2H.

#### **Well Supply Not in Service**

Well No. 1 (GIM, Well GT-29), completed in 1984, is inactive and not equipped. Available well data are presented on Table 1 (OCHD, 1993).

### **Mack Brothers**

#### **Well Supply in Service**

Mack Brothers currently operate five wells simultaneously to fill a 10,000 gallon storage tank (GIM, Wells GT-31, GT-32, GT-33, GT-34, and GT-35). All 5 wells are completed in a bedrock aquifer. Well No. 3 (GIM, Well GT-33), will probably be abandoned due to lack of satisfactory yield. Mack Brothers is seeking permit to construct a pipeline to bring water from a well along Maple Avenue. The available well data are shown on Tables 1 and 2I (MacDonald, 1993).

## **PROPOSED WATER SUPPLY SYSTEMS**

### **Houston Farm**

#### **Proposed Well Supply Not in Service**

Houston Farm Project developed two wells, TW-1 (GIM, Well GT-38) and TW-2 (GIM, Well GT-39), completed in bedrock aquifers. The estimated water demand should not require both wells to pump simultaneously. However, both wells may be pumped simultaneously without serious impact on each other or adjoining bedrock wells in the vicinity. The available well data are shown on Tables 1 and 2K (BG, 1989).

### **Astro Water Supply Corporation**

#### **Proposed Well Supply Not in Service**

The Astro Water Supply Corporation developed three wells completed in an unconfined gravel aquifer. Wells 2 (GIM, Well GT-41) and 3 (GIM, Well GT-42) are intended to be utilized with Well No. 1 (GIM, Well GT-40) as a standby. From

information supplied by Wehran Engineering this aquifer is not recharged from the Walkill River. The available well data and information are shown on Tables 1 and 2L (Wehran, 1974).

### **Maple Avenue Site**

#### **Proposed Well Supply Not in Service**

This well (GIM, Well GT-52) served a creamery, which has been demolished. The present owners are negotiating with Mack Brothers to use the well for water supply. The yield of the well during a recent seven-hour pump test was 200 gpm. The available well data are shown on Tables 1 and 2D.

### **Goshen Golf Club**

#### **Proposed Well Supply Not in Service**

Goshen Golf Club is a proposed 18-hole golf course and clubhouse along with 20 single family residences. Approximately 118,000 gpd of water is required for irrigation, the clubhouse and residences. Four existing wells on site were tested, Wells 1 and 2 (GIM, Well GT-61 and GT-62 accordingly) produced 90 gpm and 40 gpm, respectively. Wells 3 and 4 (GIM, Well GT-63 and GT-64) were tested utilizing the existing well pumps. These two wells produced low yield. A larger well pump should produce larger yields. The four wells combined yield is capable of supplying the proposed development. The available well data are presented on Table 1 (L.B.G., 1993).

### **Harness Estates**

#### **Proposed Well Supply Not in Service**

Two wells (GIM, Wells GT-47 and GT-48) within the proposed Harness Estates development site have enough yield to supply the development. The Village of Goshen is negotiating with the owner to obtain any extra water. The available well data are shown on Tables 1 and 2N.

Three wells (GIM, Wells GT-49, GT-50, and GT-51) have been abandoned on site for various reasons. The farm well is a shallow well, Well No. 2 has been vandalized with debris, and Well No. 1 could not be converted into a production well. The available well data are shown on Table 1 (L.B.G., 1992).

### **Good Time Park**

#### **Well Supply Not in Service**

Two wells (GIM, Wells GT-59 and GT-60) have been completed to serve proposed development. Well 59 is completed in a sand and gravel aquifer producing 60 gpm. Well 60 is completed in a bedrock aquifer producing 186 gpm. With the largest well out of service, the remaining well is capable of meeting the needs for the proposed development (HKS Environmental, 1993).

## **MISCELLANEOUS WATER SUPPLY SYSTEMS**

### **Serdarevic Property**

#### **Well Supply Not in Service**

Five wells in the Town of Goshen located southwest of NYS Route 17 and east of Reservoir Road are reported by Dr. Olivia N. Serdarevic to have excellent

water capacities. No well data or information is available for these wells. Wells 1 and 2 (GIM, Well GT-54 and GT-55, respectively) are located on Town of Goshen Tax Map Section 11, Block 1, Lot 46. Well 3 (GIM, Well GT-56) is located on Town of Goshen Tax Map Section 15, Block 1, Lot 59. Well 4 (GIM, Well GT-57) is located on Town of Goshen Tax Map Section 15, Block 1, Lot 58. Well 5 (GIM, Well GT-58) is located on Town of Goshen Tax Map Section 15, Block 1, Lot 4.1 (Serdarevic, 1993).

## **WATER SUPPLY DEMAND**

### **Hambletonian Park Water District No. 1**

The present water supply meets the estimated average daily water demand of 34,900 gpd and the maximum daily water demand of 90,000 gpd with the four existing rock wells in service. The combined yield of the four (4) wells is 102,240 gpd. With the largest well out of service, Well No. 4 (GIM, Well GT-3), the system is not capable of meeting peak summer demands. Data are summarized on Table 3 (Eustance & Horowitz).

### **Arcadia Hills Water District No. 2**

The present supply meets the estimated average daily water demand of 69,600 gpd and exceeds the estimated maximum daily water demand of 129,000 with the existing eight rock wells in service. With the largest well, 62 gpm, out of service the system is still capable of meeting peak summer demands. The combined yield of the two largest wells in service is 169,920 gpd, which exceeds the average and maximum daily water demand. Data are summarized on Table 3 (Eustance & Horowitz, 1977).

### **Village of Goshen**

The main sources of water for the Village of Goshen are the Prospect Reservoir and Greenhill Reservoir. The maximum yield capacities of two reservoirs is 0.625 mgd. Water from two active wells (Greenhill 1 and 2) is pumped to Prospect Reservoir. The estimated average water demand is 0.83 mgd, and the maximum daily demand is 1.1 mgd (OCHD, 1993). In times of emergency, water is pumped from Glenmere Lake to Prospect Reservoir. When the County Civil Defense well and the Goshen High School well are connected to the existing system, the water supply is still incapable of meeting the estimated average water demand (OCHD, 1993). However, the County Civil Defense Well and High School Well could bring a present total capacity of 352,800 gpd to the system, which would be approximately 33% of the estimated maximum daily demand. The Village is seeking additional sources of water. Data are summarized in Table No. 3.

### **New York State Training School**

At the time of this writing the supply meets the estimated daily demand of 18,000 gpd, but does not meet the maximum daily demand of 49,500 gpd. Only one well currently is online and in service. The New York State Office of General Services currently is in the process of drilling another well. Available data are summarized on Table 3 (OCHD, 1993).

### **Mid-Hudson Psychiatric Center**

The present supply meets the estimated average daily demand of 39,800 gpd, but does not meet the estimated maximum daily demand of 119,500 gpd. With the largest well out of service, the system is not capable of meeting the estimated average daily demand. Data are summarized in Table 3 (OCHD, 1993).

### **Orange County Home & Infirmary**

The present supply meets the estimated average daily water demand of 51,900 gpd. Utilizing only the two existing wells, combined yield of 136,800 gpd, the system does not meet the estimated maximum daily demand of 140,000 gpd. The main source of water currently is the Village of Florida. At present, Well No. 4 is being developed. Upon completion of Well No. 4, water from the Village of Florida will be converted to an auxiliary source (HEA, 1993).

### **Scotchtown Park**

Based on discussions with Mr. Gerald MacDonald, P.E., Scotchtown Park serves forty (40) homes through a private company (MacDonald, 1993). Information obtained from the Orange County Health Department lists Well No. 1 (GIM, Well GT-25) with a capacity of 86,400 gpd and Well No. 2 (GIM, Well GT-26) with an unknown capacity (OCHD, 1993). Based on 40 units, with 5 people per unit, and an average water usage of 75 gpd per person, the estimated average water demand is 15,000 gpd. From these assumptions, even if the estimated maximum daily demand was two times the estimated average water demand, Well No. 1 would be able to supply the system. No information was obtained for Well No. 2. Data are summarized on Table 3.

### **Stone Hedge**

Mr. Gerald MacDonald, P.E. reports Stone Hedge serves 48 homes (MacDonald, 1993). Information obtained from the Orange County Health Department lists Well No. 1 (GIM, Well GT-27) with a capacity of 43,200 gpd. No information of capacity of Well No. 2 (GIM, Well GT-28) is given (OCHD, 1993). Based on 48 units, with 5 people per unit, and an average water usage of 75 gpd per person yields an average daily water demand of 18,000 gpd. From these assumptions, if the estimated maximum daily demand was two times the estimated average water demand, Well 1 would be able to supply the system. No capacity information for Well 2 was obtained. Data are summarized on Table 3.

### **Sorrento Cheese Company**

The present supply meets the estimated average daily water demand of 90,000 gpd. With only one well active, the system can supplement its supply through an auxiliary connection to the Village of Goshen. Data are summarized on Table 3.

### **Mack Brothers**

The present supply does not meet the current demand needed for this system. The average and maximum demands are 45,000 gpd and 82,000 gpd, respectively. All five wells pump simultaneously and 1 to 2 tanker trucks of water are trucked each day from the Village of Washingtonville to meet the company's needs. Additional water supply sources are currently under investigation. Available data are summarized on Table 3.

## **GEOLOGY**

### **Wallkill River Valley Aquifer at Phillipsburg**

The Wallkill River Valley Aquifer at Phillipsburg contains a prolific sand and gravel aquifer located in the Town of Goshen. The aerial extent of the sand and gravel aquifer in the Goshen Region has been mapped by Finimpter as presented in a report entitled, "Ground Water Resources of Orange and Ulster Counties, New York" (Finimpter, 1972). Most of the sand and gravel aquifer in the Goshen Region is overlain by clayey and silty lake deposits in the Valley. This aquifer has a hydraulic connection with the Wallkill River. This hydraulic connection will increase the quantity of water that will infiltrate into the aquifer increasing the potential yield from recharge.

### **Good Time Park Sand & Gravel Aquifer**

The majority of the Good Time Park Area in the Village of Goshen is overlain by a considerable thickness of glacial deposits. These deposits consist of a relative impermeable mixture of silt, clay, sand and gravel. These deposits cover an area of approximately 0.3 square miles. The estimated groundwater recharge of this aquifer is approximately 662,000 gpd (LBC, 1988).

### **Bedrock Aquifer**

The majority of the Town and Village of Goshen and most of the region surrounding is underlain by Martinsburg Formation consisting of shale and siltstone (Fisher, 1970, et al). The GIM shows that the majority of the wells identified have been completed in a bedrock aquifer.

Consolidated bedrock has virtually no porosity for transmission or storage of groundwater. Fractures and cracks in the rock allow water to circulate through the ground. Well tapping the same fault zones or fracture might be expected to have interference between them.

## **LAND USE**

The majority of the southwest portion of the Town is vacant agricultural land with residential and some commercial along Pulaski Highway, Maple Ave, and Cross Road. The majority of the remaining land use within the Town is residential with scattered vacant agricultural land use throughout. Dense land use, consisting largely of residential, is located in the southerly portion of the Town of Goshen near and along Reservoir Road, in the easterly portion of the Town in Arcadia Hills and along Craigville Road.

The majority of land use within the Village of Goshen is residential. The southwest portion of the Village consists mostly of commercial and industrial land use, with the majority of commercial land use being in the center of the Village along NY State Route 207, Main Street, Church Street and Greenwich Avenue (Space Track, 1993).

A majority of existing and proposed water supply systems are adjacent to residential land use. The dense residential land use presents potential risk to the groundwater. The Town and Village should consider the potential risk to the groundwater from existing and future commercial and industrial land use adjacent to existing and proposed water supply sources. In addition, well head protection and strategies should be developed by the Town and Village to assist in the protection of existing and proposed water supplies.

## **ALTERNATE COUNTY LANDFILL CANDIDATE AREA**

Candidate area L16 is an area of approximately 225 acres fronting on County Highway No. 66, Ridge Road and Farmingdale Road on the Town of Goshen/Town of Chester border. No ground water sources are known to exist in the candidate area. However, extensive on-site exploratory testing would be necessary to determine the suitability of this area for landfill activities.

## **WATER QUALITY**

Water developed from both bedrock and sand and gravel aquifer in the Town is of good quality. The High School well in the Village of Goshen is high in iron and manganese, and the water will need treatment. The Civil Defense Well at the County Government Center produces water with high amounts of hydrogen sulfide. In addition, some other wells completed in the bedrock aquifer contain hydrogen sulfide.

### **INVENTORY OF GROUND WATER CONTAMINATION PROBLEMS**

#### **Existing Ground-Water Contamination Problems**

Hudson Engineering Associates reviewed existing known ground water contamination sites, including New York State Department of Environmental Conservation (NYSDEC) inactive hazardous waste site, remediation project (NYSDEC Spill Response), solid waste sites, and RCRA sites for the Town of Goshen. The information was provided by Lawler, Matusky & Skelly Engineers (LMS, 1993) and gathered from a Freedom of Information Law (FOIL) request from the NYSDEC. The FOIL response from the NYSDEC for the above categories did not inventory any sites which are known to have contaminated ground water in the Town or Village of Goshen.

#### **Potential Ground-Water Contamination Problems**

Information about potential ground-water contamination sites was obtained from:

- ! FOIL request to NYSDEC (LMS, 1993); and
- ! Land use data from the Orange County, New York Real Property Tax Assessment data base (Space Track, 1993).

The following summarizes the potential ground water contamination sites, including the NYSDEC's potential inactive hazardous waste sites and solid waste facilities from the FOIL request from the NYSDEC. In addition, a list of possible ground water contamination sites has been developed by Hudson Engineering Associates, P.C. in conjunction with Town Personnel (MacDonald, 1993).

#### **Orange County Landfill**

Site is located south of 17M on the westerly border of the Town of Goshen along the Wallkill River (LMS, 1993).

#### **Old Al Turi Landfill**

Site is located north of 17M and east of the Wallkill River (LMS, 1993).

#### **Mobil Oil Gas Station**

No specific information available. Site is located south of Greenwich Avenue and east of Route 17 (LMS, 1993).

#### **Lloyds Gas Station**

No specific information available. Site is located south of Greenwich Avenue in the Village of Goshen (LMS, 1993).

#### **McBride Fuel Oil**

No specific information available. Site is located on Clower Avenue near West Main Street in the Village of Goshen (LMS, 1993).

#### **Jack Perry Ford**

No specific information available. Site is located north of 17M and east of Hartley Road (LMD, 1993).

#### **Bush / Secrist**

No specific information available. Site is located on Pulaski Highway RD #2 (LMS, 1993).

#### **Possible Village R.O.W.**

No specific information available. Site is located at 69 Old Minisink Trail in the Village of Goshen (LMS, 1993).

#### **Gurda Gardening**

No specific information available. Site is located at 1 Maple Avenue (LMS, 1993).

#### **Howells**

Discharge Sludge Permit between Durand Road, Route 17A and Route 94 (MacDonald, 1993).

Each property in Orange County has a land use code number. Properties with land use code numbers associated with potential contamination of ground water were identified through an analysis of the Real Property Tax Assessment data base by Space Track, Inc. The types of land uses in the potential contamination category include:

- ! industrial facilities;
- ! gas stations;
- ! dry cleaners, and
- ! auto repair facilities.

Where possible, approximate locations of these sites are shown as triangles on the GIM.

#### **Petroleum Bulk Storage Facilities**

The FOIL request from the NYSDEC inventoried the petroleum bulk storage sites presented on Table 5.

The above sites are listed as potential ground water contamination sites. Further investigation would be required to determine if contamination exists at the respective locations.

## **CONCLUSIONS**

Based on the data developed herein, the conclusion is that the Town has an adequate supply for the anticipated design period; however, the Village appears to be in a deficit position at this time.

Of the many significant wells in the Town of Goshen, all are finished in rock with the exception of three well installations, all located in the western portion of



the Town in the area of the Wallkill River Valley Aquifer. The three well installations are the former Echo Lake County Correctional Facility site, the State Training School Facility, and the Astro Water Supply Corporation.

In general, the remaining wells finished in rock supply an adequate capacity to supply the demand for the design period.

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**TABLE 1**  
**TOWN OF GOSHEN**  
**Summary of Available Well Data**

| Well<br>-----<br>Water<br>District | Tax Map<br>Municipality<br>-----<br>Section<br>-----<br>Block<br>-----<br>Lot | Map<br>Location<br>-----<br>I.D. # | Well Status<br>-----          | Reported Yield<br>(gpm)<br>Original<br>-----<br>Present | Depth of<br>Well<br>(feet) | Well<br>Diameter<br>(inches) | Length of<br>Casing<br>(inches) | Well Screen<br>Length<br>(feet)<br>-----<br>Setting<br>Interval<br>(feet) | Aquifer           | Date Drilled | Comments                    |
|------------------------------------|---|------------------------------------|-------------------------------|---|----------------------------|------------------------------|---------------------------------|---|-------------------|--------------|-----------------------------|
| 1<br>-----<br>Hambletonian         | Goshen<br>6<br>----<br>4<br>----<br>6.2                                       | Goshen<br>---<br>GT-1              | In Service<br>-----<br>Active | 20<br>-----<br>10 (Summer)                              | 210                        | 8                            | N/A                             |   | Bedrock<br><br>On | N/A          | Artesian                    |
| A<br>-----<br>Hambletonian         | Goshen<br>8<br>----<br>1<br>----<br>3   | Goshen<br>---<br>GT-2              | In Service<br>-----<br>Active | 18<br>-----<br>10 (Summer)                              | Unknown                    | 8                            | 41                              |   | Bedrock<br><br>On | 1977         | Blackslate<br>30' to stream |
| 4<br>-----<br>Hambletonian         | Goshen<br>8<br>----<br>1<br>----<br>3   | Goshen<br>---<br>GT-3              | In Service<br>-----<br>Active | 32<br>-----<br>N/A                                      | 550                        | 6                            | 40                              |   | Bedrock<br><br>On | 1984         | 25' to stream               |
| 5<br>-----<br>Hambletonian         | Goshen<br>8<br>----<br>1<br>----<br>3   | Goshen<br>---<br>GT-4              | In Service<br>-----<br>Active | 19<br>-----<br>N/A                                      | 443                        | 8                            | N/A                             |   | Bedrock<br><br>On | N/A          | 75' to stream               |
| 1<br>-----<br>Arcadia Hills        | Goshen<br>25<br>----<br>1<br>----<br>26.1                                     | Goshen<br>---<br>GT-5              | Inactive<br>-----<br>N/A      | N/A<br>-----<br>N/A                                     | 400                        | 6                            | N/A                             |   | Bedrock<br><br>On | N/A          |                             |

**TABLE 1  
(continued)**

**TOWN OF GOSHEN**

**Summary of Available Well Data**

| <b>Well<br/>-----<br/>Water<br/>District</b> | <b>Tax Map<br/>Municipality<br/>-----<br/>Section<br/>-----<br/>Block<br/>-----<br/>Lot</b> | <b>Map<br/>Location<br/>-----<br/>I.D. #</b> | <b>Well Status</b>            | <b>Reported Yield<br/>(gpm)<br/>Original<br/>-----<br/>Present</b> | <b>Depth of<br/>Well<br/>(feet)</b> | <b>Well<br/>Diameter<br/>(inches)</b> | <b>Length of<br/>Casing<br/>(inches)</b> | <b>Well Screen<br/>Length<br/>(feet)<br/>-----<br/>Setting<br/>Interval<br/>(feet)</b> | <b>Aquifer</b>    | <b>Date Drilled</b> | <b>Comments</b> |
|--|---|--|-------------------------------|--|-------------------------------------|---------------------------------------|--|--|-------------------|---------------------|-----------------|
| 2<br>-----<br>Arcadia Hills                  | Goshen<br>11<br>---<br>1<br>---<br>55   | Goshen<br>---<br>GT-6                        | In Service<br>-----<br>Active | 45<br>-----<br>15 (1985)   | 335                                 | N/A                                   | N/A                                      |  | Bedrock<br><br>On | N/A                 |                 |
| 3<br>-----<br>Arcadia Hills                  | Goshen<br>11<br>---<br>1<br>---<br>55   | Goshen<br>---<br>GT-7                        | In Service<br>-----<br>Active | 20<br>-----<br>N/A   | 425                                 | 6                                     | 40                                       |  | Bedrock<br><br>On | 1971                |                 |
| 8<br>-----<br>Arcadia Hills                  | Goshen<br>25<br>---<br>4<br>---<br>19   | Goshen<br>---<br>GT-8                        | Inactive<br>-----<br>Equipped | 10.5<br>-----<br>5   | 400                                 | N/A                                   | N/A                                      |  | Bedrock<br><br>On | N/A                 | 12' to brook    |
| 8A<br>-----<br>Arcadia Hills                 | Goshen<br>25<br>---<br>4<br>---<br>19   | Goshen<br>---<br>GT-9                        | Inactive<br>-----<br>Equipped | 21<br>-----<br>7   | 500                                 | 6                                     | N/A                                      |  | Bedrock<br><br>On | N/A                 | 25' to brook    |
| 1<br>-----<br>Arcadia Hills                  | Goshen<br>11<br>---<br>1<br>---<br>55   | Goshen<br>---<br>GT-10                       | In Service<br>-----<br>Active | 73<br>-----<br>15 (1985)   | 400                                 | N/A                                   | N/A                                      |  | Bedrock<br><br>On | N/A                 |                 |

**TABLE 1  
(continued)**

**TOWN OF GOSHEN**

**Summary of Available Well Data**

| <b>Well<br/>-----<br/>Water<br/>District</b> | <b>Tax Map<br/>Municipality<br/>-----<br/>Section<br/>-----<br/>Block<br/>-----<br/>Lot</b> | <b>Map<br/>Location<br/>-----<br/>I.D. #</b> | <b>Well Status<br/>-----<br/>-----<br/>-----</b> | <b>Reported Yield<br/>(gpm)<br/>Original<br/>-----<br/>Present</b> | <b>Depth of<br/>Well<br/>(feet)</b> | <b>Well<br/>Diameter<br/>(inches)</b> | <b>Length of<br/>Casing<br/>(inches)</b> | <b>Well Screen<br/>Length<br/>(feet)<br/>-----<br/>Setting<br/>Interval<br/>(feet)</b> | <b>Aquifer</b>    | <b>Date Drilled</b> | <b>Comments</b>                    |
|--|---|--|--|--|-------------------------------------|---------------------------------------|--|--|-------------------|---------------------|------------------------------------|
| 21<br>-----<br>Arcadia Hills                 | Goshen<br>25<br>----<br>1<br>----<br>26.2   | Goshen<br>----<br>GT-11                      | In Service<br>-----<br>Active                    | 25<br>-----<br>4 (1985)  | 465                                 | 6                                     | 90                                       |  | Bedrock<br><br>On | 1971                | Red cap in<br>swampy area          |
| 22<br>-----<br>Arcadia Hills                 | Goshen<br>25<br>----<br>1<br>----<br>26.2   | Goshen<br>----<br>GT-12                      | In Service<br>-----<br>Active                    | 33<br>-----<br>18  | 400                                 | 6                                     | 100                                      |  | Bedrock<br><br>On | 1971                | Blue cap in<br>swampy area         |
| 23<br>-----<br>Arcadia Hills                 | Goshen<br>25<br>----<br>1<br>----<br>26.2   | Goshen<br>----<br>GT-13                      | In Service<br>-----<br>Active                    | 25<br>-----<br>12 (1985)   | 460                                 | 6                                     | N/A                                      |  | Bedrock<br><br>On | N/A                 | Surrounded<br>by pond and<br>swamp |
| 51<br>-----<br>Arcadia Hills                 | Goshen<br>11<br>----<br>1<br>----<br>66   | Goshen<br>----<br>GT-14                      | In Service<br>-----<br>Active                    | 80<br>-----<br>62 (1985)   | 490                                 | N/A                                   | N/A                                      |  | Bedrock<br><br>On | N/A                 | Near stream                        |
| 52<br>-----<br>Arcadia Hills                 | Goshen<br>11<br>----<br>1<br>----<br>67   | Goshen<br>----<br>GT-15                      | In Service<br>-----<br>Active                    | 88<br>-----<br>56 (1974)   | 490                                 | 6                                     | 60                                       |  | Bedrock<br><br>On | N/A                 | 40' to stream                      |

**TABLE 1  
(continued)**

**TOWN OF GOSHEN**

**Summary of Available Well Data**

| <b>Well<br/>-----<br/>Water<br/>District</b> | <b>Tax Map<br/>Municipality<br/>-----<br/>Section<br/>-----<br/>Block<br/>-----<br/>Lot</b> | <b>Map<br/>Location<br/>-----<br/>I.D. #</b> | <b>Well Status</b>            | <b>Reported Yield<br/>(gpm)<br/>Original<br/>-----<br/>Present</b> | <b>Depth of<br/>Well<br/>(feet)</b> | <b>Well<br/>Diameter<br/>(inches)</b> | <b>Length of<br/>Casing<br/>(inches)</b> | <b>Well Screen<br/>Length<br/>(feet)<br/>-----<br/>Setting<br/>Interval<br/>(feet)</b> | <b>Aquifer</b>    | <b>Date Drilled</b> | <b>Comments</b>                 |
|--|---|--|-------------------------------|--|-------------------------------------|---------------------------------------|--|--|-------------------|---------------------|---------------------------------|
| Well 1<br>-----<br>NYS Training<br>School    | Goshen<br>19<br>----<br>1<br>----<br>66   | Goshen<br>----<br>GT-16                      | Active<br>-----<br>In Service | 30<br>-----<br>N/A   | 55                                  | 6                                     | 45                                       | N/A<br>----<br>N/A   | Gravel<br>Packed  | N/A                 | 35' from<br>irrigation<br>ditch |
| Well 2<br>-----<br>NYS Training<br>School    | Goshen<br>19<br>----<br>1<br>----<br>66   | Goshen<br>----<br>GT-17                      | Active<br>-----<br>Unequipped | N/A<br>-----<br>N/A  | 34                                  | 6                                     | N/A                                      | N/A<br>----<br>N/A   | Gravel<br>Packed  | N/A                 | 25' from<br>irrigation<br>ditch |
| Well 1<br>-----<br>Psych Center              | Goshen<br>16<br>----<br>1<br>----<br>9.2  | Goshen<br>----<br>GT-18                      | Inactive<br>-----<br>Equipped | < 20<br>-----<br>N/A   | 410                                 | N/A                                   | N/A                                      |  | Bedrock<br><br>On | N/A                 | Top casing<br>El: 385.35        |
| Well 2<br>-----<br>Psych Center              | Goshen<br>16<br>----<br>1<br>----<br>9.2  | Goshen<br>----<br>GT-19                      | In Service<br>-----<br>Active | 80<br>-----<br>30-40   | 110                                 | N/A                                   | N/A                                      |  | Bedrock<br><br>On | N/A                 | Top casing<br>El: 385.56        |
| Well 3<br>-----<br>Psych Center              | Goshen<br>16<br>----<br>1<br>----<br>9.2  | Goshen<br>----<br>GT-20                      | In Service<br>-----<br>Active | 30<br>-----<br>25  | 480                                 | 6                                     | 110                                      |  | Bedrock<br><br>On | 11/89               |                                 |

**TABLE 1  
(continued)**

**TOWN OF GOSHEN**

**Summary of Available Well Data**

| Well<br>-----<br>Water<br>District | Tax Map<br>Municipality<br>-----<br>Section<br>-----<br>Block<br>-----<br>Lot | Map<br>Location<br>-----<br>I.D. # | Well Status                    | Reported Yield<br>(gpm)<br>Original<br>-----<br>Present | Depth of<br>Well<br>(feet) | Well<br>Diameter<br>(inches) | Length of<br>Casing<br>(inches) | Well Screen<br>Length<br>(feet)<br>-----<br>Setting<br>Interval<br>(feet) | Aquifer            | Date Drilled | Comments             |
|------------------------------------|---|------------------------------------|--------------------------------|---|----------------------------|------------------------------|---------------------------------|---|--------------------|--------------|----------------------|
| Well 4<br>-----<br>Psych Center    | Goshen<br>16<br>----<br>1<br>----<br>9.2                                      | Goshen<br>----<br>GT-21            | Inactive<br>-----<br>Equipped  | N/A<br>-----<br>N/A                                     | 400                        | 6                            | 125                             |   | Bedrock<br><br>On  | 1992         |                      |
| Well 1<br>-----<br>OCHI 1          | Goshen<br>20<br>----<br>1<br>----<br>10                                       | Goshen<br>----<br>GT-22            | In Service<br>-----<br>Standby | 75<br>-----<br>50                                       | 300                        | 6                            | 41                              |   | Bedrock<br><br>Oew | 6/88         | Standby              |
| Well 2<br>-----<br>OCHI 1          | Goshen<br>20<br>----<br>1<br>----<br>10                                       | Goshen<br>----<br>GT-23            | N/A<br>-----<br>N/A            | N/A<br>-----<br>N/A                                     | N/A<br>-----<br>N/A        | N/A<br>-----<br>N/A          | N/A<br>-----<br>N/A             | N/A<br>-----<br>N/A   | N/A                | N/A          | Abandoned            |
| Well 3<br>-----<br>OCHI 1          | Goshen<br>20<br>----<br>1<br>----<br>10                                       | Goshen<br>----<br>GT-24            | In Service<br>-----<br>Active  | 90<br>-----<br>45                                       | 325                        | 8<br>-----<br>6              | 89-1/2<br>-----<br>145          |   | Bedrock<br><br>Oew | N/A          |                      |
| Well 4<br>-----<br>OCHI 1          | N/A   | N/A                                | N/A                            | N/A   | N/A                        | N/A                          | N/A                             | N/A   | N/A                | N/A          | Well being developed |

**TABLE 1  
(continued)**

**TOWN OF GOSHEN**

**Summary of Available Well Data**

| <b>Well<br/>-----<br/>Water<br/>District</b> | <b>Tax Map<br/>Municipality<br/>-----<br/>Section<br/>-----<br/>Block<br/>-----<br/>Lot</b> | <b>Map<br/>Location<br/>-----<br/>I.D. #</b> | <b>Well Status</b>              | <b>Reported Yield<br/>(gpm)<br/>Original<br/>-----<br/>Present</b> | <b>Depth of<br/>Well<br/>(feet)</b> | <b>Well<br/>Diameter<br/>(inches)</b> | <b>Length of<br/>Casing<br/>(inches)</b> | <b>Well Screen<br/>Length<br/>(feet)<br/>-----<br/>Setting<br/>Interval<br/>(feet)</b> | <b>Aquifer</b> | <b>Date Drilled</b> | <b>Comments</b>      |
|--|---|--|---------------------------------|--|-------------------------------------|---------------------------------------|--|--|----------------|---------------------|----------------------|
| Well 1<br>-----<br>Scotchtown Park           | Goshen<br>1<br>----<br>3<br>----<br>8   | Goshen<br>----<br>GT-25                      | In Service<br>-----<br>Active   | 60<br>-----<br>N/A   | 100                                 | 8                                     | 13                                       |  | Bedrock<br>On  | 1959                | Inside<br>Building   |
| Well 2<br>-----<br>Scotchtown Park           | Goshen<br>1<br>----<br>3<br>----<br>8   | Goshen<br>----<br>GT-26                      | In Service<br>-----<br>Active   | N/A<br>-----<br>N/A  | N/A                                 | N/A                                   | N/A                                      | N/A<br>-----<br>N/A  | N/A            | N/A                 |                      |
| Well 1<br>-----<br>Stone Hedge               | Goshen<br>9<br>----<br>1<br>----<br>1.23  | Goshen<br>----<br>GT-27                      | In Service<br>-----<br>Active   | 30<br>-----<br>N/A   | 320                                 | 6                                     | 50                                       |  | Bedrock<br>On  | N/A                 | In<br>pumphouse      |
| Well 2<br>-----<br>Stone Hedge               | Goshen<br>9<br>----<br>1<br>----<br>1.23  | Goshen<br>----<br>GT-28                      | In Service<br>-----<br>Active   | N/A<br>-----<br>N/A  | 260                                 | N/A                                   | N/A                                      |  | Bedrock<br>On  | N/A                 | Outside<br>Pumphouse |
| Well 1<br>-----<br>Sorrento Cheese           | Goshen<br>122<br>----<br>1<br>----<br>1.2   | Goshen<br>----<br>GT-29                      | Inactive<br>-----<br>Unequipped | 82<br>-----<br>N/A   | 500                                 | 8                                     | 45                                       | N/A<br>-----<br>N/A  | Bedrock<br>On  | 1984                |                      |

**TABLE 1  
(continued)**

**TOWN OF GOSHEN**

**Summary of Available Well Data**

| <b>Well<br/>-----<br/>Water<br/>District</b> | <b>Tax Map<br/>Municipality<br/>-----<br/>Section<br/>-----<br/>Block<br/>-----<br/>Lot</b> | <b>Map<br/>Location<br/>-----<br/>I.D. #</b> | <b>Well Status<br/>-----</b>  | <b>Reported Yield<br/>(gpm)<br/>Original<br/>-----<br/>Present</b> | <b>Depth of<br/>Well<br/>(feet)</b> | <b>Well<br/>Diameter<br/>(inches)</b> | <b>Length of<br/>Casing<br/>(inches)</b> | <b>Well Screen<br/>Length<br/>(feet)<br/>-----<br/>Setting<br/>Interval<br/>(feet)</b> | <b>Aquifer</b>    | <b>Date Drilled</b> | <b>Comments</b> |
|--|---|--|-------------------------------|--|-------------------------------------|---------------------------------------|--|--|-------------------|---------------------|-----------------|
| Well 2<br>-----<br>Sorrento Cheese           | Goshen<br>122<br>----<br>1<br>----<br>1.2   | Goshen<br>----<br>GT-30                      | In Service<br>-----<br>Active | 102<br>-----<br>75   | 550                                 | 8                                     | N/A                                      |  | Bedrock<br><br>On | N/A                 |                 |
| Well 1<br>-----<br>Mack Brothers             | Goshen<br>12<br>----<br>1<br>----<br>13.2   | Goshen<br>----<br>GT-31                      | In Service<br>-----<br>Active | 22<br>-----<br>N/A   | 800                                 | 6                                     | 70-80                                    |  | Bedrock<br><br>On | N/A                 |                 |
| Well 2<br>-----<br>Mack Brothers             | Goshen<br>12<br>----<br>1<br>----<br>13.2   | Goshen<br>----<br>GT-32                      | In Service<br>-----<br>Active | 5<br>-----<br>N/A  | 285                                 | 6                                     | 80                                       |  | Bedrock<br><br>On | N/A                 |                 |
| Well 3<br>-----<br>Mack Brothers             | Goshen<br>12<br>----<br>1<br>----<br>13.2   | Goshen<br>----<br>GT-33                      | In Service<br>-----<br>Active | N/A<br>-----<br>N/A  | 150                                 | N/A                                   | N/A                                      |  | Bedrock<br><br>On | N/A                 |                 |
| Well 4<br>-----<br>Mack Brothers             | Goshen<br>12<br>----<br>1<br>----<br>13.2   | Goshen<br>-----<br>GT-34                     | In Service<br>-----<br>Active | 15<br>-----<br>N/A   | 650                                 | 6                                     | 80                                       |  | Bedrock<br><br>On | N/A                 |                 |





**TABLE 1  
(continued)**

**TOWN OF GOSHEN**

**Summary of Available Well Data**

| Well<br>-----<br>Water<br>District | Tax Map<br>Municipality<br>-----<br>Section<br>-----<br>Block<br>-----<br>Lot | Map<br>Location<br>-----<br>I.D. # | Well Status                     | Reported Yield<br>(gpm)<br>Original<br>-----<br>Present | Depth of<br>Well<br>(feet) | Well<br>Diameter<br>(inches) | Length of<br>Casing<br>(inches) | Well Screen<br>Length<br>(feet)<br>-----<br>Setting<br>Interval<br>(feet) | Aquifer             | Date Drilled | Comments                             |
|------------------------------------|---|------------------------------------|---------------------------------|---|----------------------------|------------------------------|---------------------------------|---|---------------------|--------------|--------------------------------------|
| Well 5<br>-----<br>Mack Brothers   | Goshen<br>12<br>----<br>1<br>----<br>13.2                                     | Goshen<br>----<br>GT-35            | In Service<br>-----<br>Active   | 20-25<br>-----<br>N/A                                   | 540                        | 6                            | 80                              |   | Bedrock<br><br>On   | N/A          |                                      |
| Well 1<br>-----<br>Echo Lake       | Goshen<br>12<br>----<br>1<br>----<br>24.2                                     | Goshen<br>----<br>GT-36            | Inactive<br>-----<br>Unequipped | 370<br>-----<br>N/A                                     | 82.5                       | 16                           | 70                              | 12.5<br>----<br>70-82.5   | Uncon-<br>solidated | 1989         |                                      |
| Well 2<br>-----<br>Echo Lake       | Goshen<br>12<br>----<br>1<br>----<br>24.2                                     | Goshen<br>----<br>GT-37            | Inactive<br>-----<br>Unequipped | 115<br>-----<br>N/A                                     | 42                         | 8                            | 34                              | 8<br>----<br>34-42  | Uncon-<br>solidated | 1989         | Water<br>Taking<br>Permit<br>Pending |
| TW-1<br>-----<br>Houston Farm      | Goshen<br>17<br>----<br>1<br>----<br>5.2                                      | Goshen<br>-----<br>GT-38           | Inactive<br>-----<br>Unequipped | 60<br>-----<br>N/A                                      | 350                        | 6                            | 40                              |   | Bedrock<br><br>Oew  | 1988         |                                      |
| TW-2<br>-----<br>Houston Farm      | Goshen<br>17<br>----<br>1<br>----<br>5.2                                      | Goshen<br>----<br>GT-39            | Inactive<br>-----<br>Unequipped | 87<br>-----<br>N/A                                      | 375                        | 6                            | 50                              |   | Bedrock<br><br>Oew  | 1988         |                                      |

**TABLE 1  
(continued)**

**TOWN OF GOSHEN**

**Summary of Available Well Data**

| <b>Well<br/>-----<br/>Water<br/>District</b> | <b>Tax Map<br/>Municipality<br/>-----<br/>Section<br/>-----<br/>Block<br/>-----<br/>Lot</b> | <b>Map<br/>Location<br/>-----<br/>I.D. #</b> | <b>Well Status</b>       | <b>Reported Yield<br/>(gpm)<br/>Original<br/>-----<br/>Present</b> | <b>Depth of<br/>Well<br/>(feet)</b> | <b>Well<br/>Diameter<br/>(inches)</b> | <b>Length of<br/>Casing<br/>(inches)</b> | <b>Well Screen<br/>Length<br/>(feet)<br/>-----<br/>Setting<br/>Interval<br/>(feet)</b> | <b>Aquifer</b> | <b>Date Drilled</b> | <b>Comments</b> |
|--|---|--|--------------------------|--|-------------------------------------|---------------------------------------|--|--|----------------|---------------------|-----------------|
| Well 1<br>-----<br>Astro                     | Goshen<br>12<br>----<br>1<br>----<br>1.7  | Goshen<br>----<br>GT-40                      | Inactive<br>-----<br>N/A | 620<br>-----<br>N/A  | N/A                                 | 8                                     | 3  | 10<br>----<br>N/A  | Gravel         | N/A                 |                 |
| Well 2<br>-----<br>Astro                     | Goshen<br>12<br>----<br>1<br>----<br>1.7  | Goshen<br>----<br>GT-41                      | Inactive<br>-----<br>N/A | 350<br>-----<br>N/A  | N/A                                 | 12                                    | 36                                       | 10<br>----<br>N/A  | Gravel         | N/A                 |                 |
| Well 3<br>-----<br>Astro                     | Goshen<br>12<br>----<br>1<br>----<br>1.7  | Goshen<br>----<br>GT-42                      | Inactive<br>-----<br>N/A | 900<br>-----<br>N/A  | N/A                                 | 12                                    | 39                                       | 10<br>----<br>N/A  | Gravel         | N/A                 |                 |

**TABLE 1  
(continued)**

**VILLAGE OF GOSHEN**

**Summary of Available Well Data**

| <b>Well<br/>-----<br/>Water<br/>District</b> | <b>Tax Map<br/>Municipality<br/>-----<br/>Section<br/>-----<br/>Block<br/>-----<br/>Lot</b> | <b>Map<br/>Location<br/>-----<br/>I.D. #</b> | <b>Well Status</b>              | <b>Reported Yield<br/>(gpm)<br/>Original<br/>-----<br/>Present</b> | <b>Depth of<br/>Well<br/>(feet)</b> | <b>Well<br/>Diameter<br/>(inches)</b> | <b>Length of<br/>Casing<br/>(inches)</b> | <b>Well Screen<br/>Length<br/>(feet)<br/>-----<br/>Setting<br/>Interval<br/>(feet)</b> | <b>Aquifer</b>     | <b>Date Drilled</b> | <b>Comments</b>                             |
|--|---|--|---------------------------------|--|-------------------------------------|---------------------------------------|--|--|--------------------|---------------------|---|
| Greenhill 1<br>-----<br>V. Goshen            | V. Goshen<br>15<br>-----<br>1<br>-----<br>50  | Goshen<br>-----<br>GT-43                     | In Service<br>-----<br>Active   | 285<br>-----<br>220  | 300                                 | 6<br>-----<br>8                       | 12 3/4-270<br>-----<br>40                |  | Bedrock<br><br>Oew | N/A                 |   |
| Greenhill 2<br>-----<br>V. Goshen            | V. Goshen<br>15<br>-----<br>1<br>-----<br>50  | Goshen<br>-----<br>GT-44                     | In Service<br>-----<br>Active   | N/A<br>-----<br>N/A  | 400                                 | 6<br>-----<br>8                       | 12 3/4-265<br>-----<br>40                |  | Bedrock<br><br>Oew | N/A                 |   |
| Co. Civ. Def.<br>-----<br>V. Goshen          | V. Goshen<br>106<br>-----<br>3<br>-----<br>14   | Goshen<br>-----<br>GT-45                     | In Service<br>-----<br>Standby  | 125<br>-----<br>100  | 355                                 | 6                                     | N/A                                      |  | Bedrock<br><br>On  | 1960                | Needs Work                                  |
| High School<br>-----<br>V. Goshen            | V. Goshen<br>103<br>-----<br>3<br>-----<br>2  | Goshen<br>-----<br>GT-46                     | Inactive<br>-----<br>Unequipped | 190<br>-----<br>145  | 297                                 | 8                                     | 21                                       |  | Bedrock<br><br>On  | 1984                | Expected to<br>be in service<br>Spring 1995 |
| Well 1A<br>-----<br>Harness Estates          | V. Goshen<br>127<br>-----<br>1<br>-----<br>141  | Goshen<br>-----<br>GT-47                     | Inactive<br>-----<br>Unequipped | 175<br>-----<br>N/A  | 304                                 | 8                                     | N/A                                      |  | Bedrock<br><br>On  | 1988                |   |

**TABLE 1  
(continued)**

**VILLAGE OF GOSHEN**

**Summary of Available Well Data**

| Well<br>-----<br>Water<br>District    | Tax Map<br>Municipality<br>-----<br>Section<br>-----<br>Block<br>-----<br>Lot | Map<br>Location<br>-----<br>I.D. # | Well Status                     | Reported Yield<br>(gpm)<br>Original<br>-----<br>Present | Depth of<br>Well<br>(feet) | Well<br>Diameter<br>(inches) | Length of<br>Casing<br>(inches) | Well Screen<br>Length<br>(feet)<br>-----<br>Setting<br>Interval<br>(feet) | Aquifer           | Date Drilled | Comments     |
|---------------------------------------|---|------------------------------------|---------------------------------|---|----------------------------|------------------------------|---------------------------------|---|-------------------|--------------|--------------|
| Well 3<br>-----<br>Harness Estates    | V. Goshen<br>127<br>-----<br>1<br>-----<br>141                                | Goshen<br>-----<br>GT-48           | Inactive<br>-----<br>Unequipped | 200<br>-----<br>180                                     | 304                        | 14<br>-----<br>8             | 18<br>-----<br>40               |   | Bedrock<br><br>On | 1988         |              |
| Well 1<br>-----<br>Harness Estates    | V. Goshen<br>127<br>-----<br>1<br>-----<br>141                                | Goshen<br>-----<br>GT-49           | Abandoned                       | N/A   | N/A                        | 6                            | N/A                             | N/A   | N/A               | N/A          |              |
| Well 2<br>-----<br>Harness Estates    | V. Goshen<br>127<br>-----<br>1<br>-----<br>138                                | Goshen<br>-----<br>GT-50           | Abandoned                       | N/A   | N/A                        | 6                            | N/A                             | N/A   | N/A               | N/A          |              |
| Farm Well<br>-----<br>Harness Estates | V. Goshen<br>127<br>-----<br>1<br>-----<br>139                                | Goshen<br>-----<br>GT-51           | Abandoned                       | N/A<br>-----<br>N/A                                     | N/A                        | N/A                          | N/A                             | N/A<br>-----<br>N/A   | N/A               | N/A          | Shallow well |
| Maple Avenue<br>-----<br>Well         | V. Goshen<br>12<br>-----<br>1<br>-----<br>62                                  | Goshen<br>-----<br>GT-52           | N/A<br>-----<br>N/A             | 200<br>-----  | 280                        | N/A                          | N/A                             | N/A<br>-----<br>N/A   | Bedrock           | N/A          |              |

**TABLE 1  
(continued)**

**VILLAGE OF GOSHEN**

**Summary of Available Well Data**

| Well<br>-----<br>Water<br>District        | Tax Map<br>Municipality<br>-----<br>Section<br>-----<br>Block<br>-----<br>Lot | Map<br>Location<br>-----<br>I.D. # | Well Status<br>-----            | Reported Yield<br>(gpm)<br>Original<br>-----<br>Present | Depth of<br>Well<br>(feet) | Well<br>Diameter<br>(inches) | Length of<br>Casing<br>(inches) | Well Screen<br>Length<br>(feet)<br>-----<br>Setting<br>Interval<br>(feet) | Aquifer            | Date Drilled | Comments |
|---|---|------------------------------------|---------------------------------|---|----------------------------|------------------------------|---------------------------------|---|--------------------|--------------|----------|
| Well 3<br>-----<br>NYS Training<br>School | V. Goshen<br>-----<br>19<br>-----<br>1<br>-----<br>66                         | Goshen<br>-----<br>GT-53           | Inactive<br>-----<br>Unequipped | N/A<br>-----<br>N/A                                     | 120                        | 8                            | N/A                             |   | Bedrock<br><br>Oew | 1993         |          |
| Well 1<br>-----<br>Serdarevic             | T. Goshen<br>11<br>--<br>1<br>--<br>46  | Goshen<br>-----<br>GT-54           | Inactive<br>-----<br>Unequipped | N/A<br>-----<br>N/A                                     | N/A                        | N/A                          | N/A                             | N/A<br>-----<br>N/A   | Bedrock<br><br>On  | N/A          |          |
| Well 3<br>-----<br>Serdarevic             | T. Goshen<br>11<br>--<br>1<br>--<br>46  | Goshen<br>-----<br>GT-55           | Inactive<br>-----<br>Unequipped | N/A<br>-----<br>N/A                                     | N/A                        | N/A                          | N/A                             | N/A<br>-----<br>N/A   | Bedrock<br><br>On  | N/A          |          |
| Well 3<br>-----<br>Serdarevic             | T. Goshen<br>15<br>--<br>1<br>--<br>59  | Goshen<br>-----<br>GT-56           | Inactive<br>-----<br>Unequipped | N/A<br>-----<br>N/A                                     | N/A                        | N/A                          | N/A                             | N/A<br>-----<br>N/A   | Bedrock<br><br>On  | N/A          |          |
| Well 4<br>-----<br>Serdarevic             | T. Goshen<br>15<br>--<br>1<br>--<br>58  | Goshen<br>-----<br>GT-57           | Inactive<br>-----<br>Unequipped | N/A<br>-----<br>N/A                                     | N/A                        | N/A                          | N/A                             | N/A<br>-----<br>N/A   | Bedrock<br><br>On  | N/A          |          |

**TABLE 1  
(continued)**

**VILLAGE OF GOSHEN**

**Summary of Available Well Data**

| <b>Well<br/>-----<br/>Water<br/>District</b> | <b>Tax Map<br/>Municipality<br/>-----<br/>Section<br/>-----<br/>Block<br/>-----<br/>Lot</b> | <b>Map<br/>Location<br/>-----<br/>I.D. #</b> | <b>Well Status<br/>-----<br/>-----<br/>-----</b> | <b>Reported Yield<br/>(gpm)<br/>Original<br/>-----<br/>Present</b> | <b>Depth of<br/>Well<br/>(feet)</b> | <b>Well<br/>Diameter<br/>(inches)</b> | <b>Length of<br/>Casing<br/>(inches)</b> | <b>Well Screen<br/>Length<br/>(feet)<br/>-----<br/>Setting<br/>Interval<br/>(feet)</b> | <b>Aquifer</b>    | <b>Date Drilled</b> | <b>Comments</b> |
|--|---|--|--|--|-------------------------------------|---------------------------------------|--|--|-------------------|---------------------|-----------------|
| Well 5<br>-----<br>Serdarevic                | T. Goshen<br>15<br>--<br>1<br>--<br>4.1   | Goshen<br>-----<br>GT-58                     | Inactive<br>-----<br>Unequipped                  | N/A<br>-----<br>N/A  | N/A                                 | N/A                                   | N/A                                      | N/A<br>-----<br>N/A  | Bedrock<br><br>On | N/A                 |                 |
| Well 2<br>-----<br>Good Time Park            | V. Goshen<br>115<br>---<br>1<br>---<br>5  | Goshen<br>-----<br>GT-59                     | Inactive<br>-----<br>Unequipped                  | 60<br>-----<br>N/A   | N/A                                 | 8                                     | N/A                                      | N/A<br>---<br>N/A  | Sand &<br>Gravel  | N/A                 |                 |
| Well 3<br>-----<br>Good Time Park            | V. Goshen<br>115<br>---<br>1<br>---<br>5  | Goshen<br>-----<br>GT-60                     | Inactive<br>-----<br>Unequipped                  | 186<br>-----<br>N/A  | N/A                                 | 8                                     | N/A                                      |  | Bedrock<br><br>On | N/A                 |                 |
| 1<br>-----<br>Goshen Corp.                   | V. Goshen<br>5<br>---<br>1<br>---<br>64   | Goshen<br>-----<br>GT-61                     | Inactive<br>-----<br>Unequipped                  | 90<br>-----<br>N/A   | 180                                 | N/A                                   | N/A                                      |  | Bedrock<br><br>On | N/A                 |                 |
| 2<br>-----<br>Goshen Corp.                   | V. Goshen<br>5<br>---<br>1<br>---<br>64   | Goshen<br>-----<br>GT-62                     | Inactive<br>-----<br>Unequipped                  | 40<br>-----<br>N/A   | 200                                 | N/A                                   | N/A                                      |  | Bedrock<br><br>On | N/A                 |                 |

**TABLE 1  
(continued)**

**VILLAGE OF GOSHEN**

**Summary of Available Well Data**

| Well<br>-----<br>Water<br>District | Tax Map<br>Municipality<br>-----<br>Section<br>-----<br>Block<br>-----<br>Lot | Map<br>Location<br>-----<br>I.D. # | Well Status                 | Reported Yield<br>(gpm)<br>Original<br>-----<br>Present | Depth of<br>Well<br>(feet) | Well<br>Diameter<br>(inches) | Length of<br>Casing<br>(inches) | Well Screen<br>Length<br>(feet)<br>-----<br>Setting<br>Interval<br>(feet) | Aquifer           | Date Drilled | Comments |
|------------------------------------|---|------------------------------------|-----------------------------|---|----------------------------|------------------------------|---------------------------------|---|-------------------|--------------|----------|
| 3<br>-----<br>Goshen Corp.         | V. Goshen<br>-----<br>5<br>-----<br>1<br>-----<br>64                          | Goshen<br>-----<br>GT-63           | Active<br>-----<br>Equipped | 13<br>-----<br>N/A                                      | 135*                       | N/A                          | N/A                             |   | Bedrock<br><br>On | N/A          |          |
| 4<br>-----<br>Goshen Corp.         | V. Goshen<br>-----<br>5<br>-----<br>1<br>-----<br>64                          | Goshen<br>-----<br>GT-64           | Active<br>-----<br>Equipped | 3<br>-----<br>N/A                                       | N/A                        | N/A                          | N/A                             |   | Bedrock<br><br>On | N/A          |          |

gpm - Gallons per minute.  
N/A - Not available.

Well Status: In service-active; In service-stand by; Inactive-equipped; Inactive-not equipped; Abandoned

\*Estimate

gttable1/oragne



**TABLE 2-A  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| <b>Well<br/>-----<br/>Water District</b> | <b>WSA No.<br/>-----<br/>Permitted Yield<br/>(gpm)</b> | <b>Average Yield Capacity<br/>(gpm)<br/>-----<br/>(gpd)</b> | <b>Maximum Yield Capacity<br/>(gpm)<br/>-----<br/>(gpd)</b>        | <b>Comments</b> |
|--|--|---|--|-----------------|
| 1<br>-----<br>Hambletonian Park WD1      | 3,496<br>-----<br>150                                  | 10<br>-----<br>10,000                                       | 20<br>-----<br>28,800  | Artesian        |
| A<br>-----<br>Hambletonian Park WD 1     | 3,496<br>-----<br>150                                  | 10<br>-----<br>10,000                                       | 18<br>-----<br>25,920  |                 |
| 4<br>-----<br>Hambletonian Park WD 1     | 7,526<br>-----<br>62                                   | 32<br>-----<br>32,256                                       | 32<br>-----<br>46,080  |                 |
| 5<br>-----<br>Hambletonian Park WD 1     | 3,496<br>-----<br>150                                  | 19<br>-----<br>19,152                                       | 19<br>-----<br>27,360  |                 |
| <b>TOTALS</b>                            | <b>(Total Permitted Yield)<br/><br/>212 gpm*</b>       | <b>(Total Yield Capacity)<br/>71<br/>-----<br/>71,408</b>   | <b>(Total Maximum Yield Capacity)<br/>89<br/>-----<br/>128,160</b> |                 |

gpm - Gallons per minute.  
gpd - Gallons per day.

WSA No. - Water Supply Application Number.

\* Total Withdrawal Permitted

**TABLE 2-B  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District  | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Comments |
|----------------------------------|--|---|---|----------|
| 1<br>-----<br>Arcadia Hills WD 2 | 6,389<br>-----<br>N/A                        | N/A<br>-----<br>N/A                               | N/A<br>-----<br>N/A                               |          |
| 2<br>-----<br>Arcadia Hills WD 2 | 6,389<br>-----<br>N/A                        | 15<br>-----<br>15,120                             | 45<br>-----<br>64,800                             |          |
| 3<br>-----<br>Arcadia Hills WD 2 | 6,389<br>-----<br>N/A                        | 20<br>-----<br>20,160                             | 20<br>-----<br>28,800                             |          |
| 8<br>-----<br>Arcadia Hills WD 2 | 6,389<br>-----<br>N/A                        | 5<br>-----<br>5,040                               | 10.5<br>-----<br>15,120                           |          |

g p m - Gallons per minute.  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

**TABLE 2-B (Page 2)**  
**TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District   | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Comments |
|-----------------------------------|--|---|---|----------|
| 8A<br>-----<br>Arcadia Hills WD 2 | 6,389<br>-----<br>N/A                        | 7<br>-----<br>7,056                               | 21<br>-----<br>30,240                             |          |
| 1<br>-----<br>Arcadia Hills WD 2  | 6,389<br>-----<br>N/A                        | 15<br>-----<br>15,120                             | 73<br>-----<br>105,120                            |          |
| 21<br>-----<br>Arcadia Hills WD 2 | 6,389<br>-----<br>N/A                        | 4<br>-----<br>4,032                               | 25<br>-----<br>36,000                             |          |
| 22<br>-----<br>Arcadia Hills WD 2 | 6,389<br>-----<br>N/A                        | 18<br>-----<br>18,144                             | 33<br>-----<br>47,520                             |          |

g p m - Gallons per minute.  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

**TABLE 2-B (Page 3)**  
**TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District   | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)         | Comments |
|-----------------------------------|--|---|---|----------|
| 23<br>-----<br>Arcadia Hills WD 2 | 6,389<br>-----<br>N/A                        | 12<br>-----<br>12,096                             | 25<br>-----<br>36,000                                     |          |
| 51<br>-----<br>Arcadia Hills WD 2 | 6,389<br>-----<br>N/A                        | 62<br>-----<br>62,496                             | 80<br>-----<br>115,200                                    |          |
| 52<br>-----<br>Arcadia Hills WD 2 | 7,542<br>-----<br>N/A                        | 56<br>-----<br>56,448                             | 80<br>-----<br>12,670                                     |          |
| TOTALS                            | (Total Permitted Yield)<br>-----<br>N/A      | (Total Yield Capacity)<br>175<br>-----<br>176,400 | (Total Maximum Yield Capacity)<br>300<br>-----<br>304,990 |          |

g p m - Gallons p e r m i n u t e .  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

**TABLE 2-C  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District        | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield<br>Capacity<br>(gpm)<br>-----<br>(gpd)    | Comments |
|--|--|---|---|----------|
| Well 1<br>-----<br>NYS Training School | N/A<br>-----<br>N/A                          | 30<br>-----<br>30,240                             | 30<br>-----<br>43,200                                   |          |
| TOTALS                                 | (Total Permitted Yield)<br><br>N/A           | (Total Yield Capacity)<br>30<br>-----<br>30,240   | (Total Maximum Yield Capacity)<br>30<br>-----<br>43,200 |          |

g p m - G a l l o n s p e r m i n u t e .  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

**TABLE 2-D  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District       | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd)  | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)         | Comments |
|---------------------------------------|--|--|---|----------|
| 1<br>-----<br>Mid-Hudson Psych Center | N/A<br>-----<br>N/A                          | < 20<br>-----<br>0                                 | < 20<br>-----<br>0  |          |
| 2<br>-----<br>Mid-Hudson Psych Center | N/A<br>-----<br>N/A                          | 30-40<br>-----<br>40,320                           | 80<br>-----<br>115,200                                    |          |
| 3<br>-----<br>Mid-Hudson Psych Center | N/A<br>-----<br>N/A                          | 25<br>-----<br>25,200                              | 30<br>-----<br>43,200                                     |          |
| 4<br>-----<br>Mid-Hudson Psych Center | N/A<br>-----<br>N/A                          | N/A  | N/A   |          |
| TOTALS                                | (Total Permitted Yield)<br><br>N/A           | (Total Yield Capacity)<br>55-65<br>-----<br>65,520 | (Total Maximum Yield Capacity)<br>110<br>-----<br>158,400 |          |

g p m - G a l l o n s p e r m i n u t e .  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

**TABLE 2-E  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)         | Comments |
|---------------------------------|--|---|---|----------|
| 1<br>-----<br>OCHI              | N/A<br>-----<br>N/A                          | 50<br>-----<br>50,400                             | 75<br>-----<br>108,000                                    |          |
| 3<br>-----<br>OCHI              | N/A<br>-----<br>N/A                          | 45<br>-----<br>45,360                             | 90<br>-----<br>129,600                                    |          |
| TOTALS                          | (Total Permitted Yield)<br><br>N/A           | (Total Yield Capacity)<br>95<br>-----<br>95,760   | (Total Maximum Yield Capacity)<br>165<br>-----<br>237,600 |          |

g p m - Gallons per minute.  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

**TABLE 2-F  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)         | Comments |
|---------------------------------|--|---|---|----------|
| 1<br>-----<br>Scotchtown Park   | N/A<br>-----<br>N/A                          | 60<br>-----<br>60,480                             | 60<br>-----<br>86,400                                     |          |
| 2<br>-----<br>Scotchtown Park   | N/A<br>-----<br>N/A                          | N/A<br>-----<br>N/A                               | N/A<br>-----<br>N/A                                       |          |
| TOTALS                          | (Total Permitted Yield)<br><br>N/A           | (Total Yield Capacity)<br>> 60<br>-----<br>60,480 | (Total Maximum Yield Capacity)<br>> 60<br>-----<br>86,400 |          |

g p m - Gallons per minute.  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.



**TABLE 2-G  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd)   | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)           | Comments |
|---------------------------------|--|---|---|----------|
| 1<br>-----<br>Stone Hedge       | 7,185<br>-----<br>60                         | 30<br>-----<br>30,240                               | 30<br>-----<br>43,200                                       |          |
| 2<br>-----<br>Stone Hedge       | 7,185<br>-----<br>60                         | N/A<br>-----<br>N/A                                 | N/A<br>-----<br>N/A   |          |
| TOTALS                          | (Total Permitted Yield)<br><br>60            | (Total Yield Capacity)<br>> 30<br>-----<br>> 30,240 | (Total Maximum Yield Capacity)<br>> 30<br>-----<br>> 43,200 |          |

g p m - G a l l o n s p e r m i n u t e .  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

**TABLE 2-H  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District   | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)         | Comments |
|-----------------------------------|--|---|---|----------|
| 1<br>-----<br>Sorrento Cheese Co. | N/A<br>-----<br>N/A                          | 82<br>-----<br>82,650                             | 82<br>-----<br>118,000                                    |          |
| 2<br>-----<br>Sorrento Cheese Co. | N/A<br>-----<br>N/A                          | 75<br>-----<br>75,600                             | 102<br>-----<br>146,880                                   |          |
| TOTALS                            | (Total Permitted Yield)<br><br>N/A           | (Total Yield Capacity)<br>75<br>-----<br>75,600   | (Total Maximum Yield Capacity)<br>102<br>-----<br>146,880 |          |

g p m - Gallons per minute.  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

**TABLE 2-I  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Comments |
|---------------------------------|--|---|---|----------|
| 1<br>-----<br>Mack Brothers     | N/A<br>-----<br>N/A                          | 22<br>-----<br>22,176                             | 22<br>-----<br>31,680                             |          |
| 2<br>-----<br>Mack Brothers     | N/A<br>-----<br>N/A                          | 5<br>-----<br>5,040                               | 5<br>-----<br>7,200                               |          |
| 3<br>-----<br>Mack Brothers     | N/A<br>-----<br>N/A                          | N/A<br>-----<br>N/A                               | N/A<br>-----<br>N/A                               |          |
| 4<br>-----<br>Mack Brothers     | N/A<br>-----<br>N/A                          | 15<br>-----<br>15,120                             | 15<br>-----<br>21,600                             |          |

g p m - Gallons per minute.  
WSA No. - Water Supply Application Number.  
gpd - Gallons per day.

**TABLE 2-I (Page 2)**  
**TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)       | Comments |
|---------------------------------|--|---|---|----------|
| 5<br>-----<br>Mack Brothers     | N/A<br>-----<br>N/A                          | 20<br>-----<br>20,160                             | 25<br>-----<br>36,000                                   |          |
| TOTALS                          | (Total Permitted Yield)<br><br>N/A           | (Total Yield Capacity)<br>62<br>-----<br>62,500   | (Total Maximum Yield Capacity)<br>67<br>-----<br>96,500 |          |

g p m - G a l l o n s p e r m i n u t e .  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

**TABLE 2-J  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Comments |
|---------------------------------|--|---|---|----------|
| 1<br>-----<br>Echo Lake         | N/A<br>-----<br>N/A                          | 370<br>-----<br>N/A                               | 370<br>-----<br>N/A                               |          |
| 2<br>-----<br>Echo Lake         | N/A<br>-----<br>N/A                          | 115<br>-----<br>N/A                               | 115<br>-----<br>N/A                               |          |
| TOTALS                          | (Total Permitted Yield)<br><br>N/A           | (Total Yield Capacity)<br><br>N/A*                | (Total Maximum Yield Capacity)<br><br>N/A*        |          |

g p m - G a l l o n s p e r m i n u t e .  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

\* Further well testing required.

**TABLE 2-K  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)     | Comments |
|---------------------------------|--|---|---|----------|
| Tw-1<br>-----<br>Houston Farm   | N/A<br>-----<br>N/A                          | 60<br>-----<br>N/A                                | 60<br>-----<br>N/A                                    |          |
| TW-2<br>-----<br>Houston Farm   | N/A<br>-----<br>N/A                          | 87<br>-----<br>N/A                                | 87<br>-----<br>N/A                                    |          |
| TOTALS                          | (Total Permitted Yield)<br><br>N/A           | (Total Yield Capacity)<br>147<br>-----<br>N/A     | (Total Maximum Yield Capacity)<br>147<br>-----<br>N/A |          |

g p m - G a l l o n s p e r m i n u t e .  
WSA No. - Water Supply Application Number.  
gpd - Gallons per day.

**TABLE 2-L  
TOWN OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District  | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)        | Comments |
|----------------------------------|--|---|--|----------|
| 1<br>-----<br>Astro Water Supply | N/A<br>----<br>N/A                           | 620<br>----<br>N/A                                | 620<br>----<br>N/A                                       |          |
| 2<br>-----<br>Astro Water Supply | N/A<br>----<br>N/A                           | 350<br>----<br>N/A                                | 350<br>----<br>N/A                                       |          |
| 3<br>-----<br>Astro Water Supply | N/A<br>----<br>N/A                           | 900<br>----<br>N/A                                | 900<br>----<br>N/A                                       |          |
| TOTALS                           | (Total Permitted Yield)<br><br>N/A           | (Total Yield Capacity)<br>900*<br>-----<br>N/A    | (Total Maximum Yield Capacity)<br>1,400*<br>-----<br>N/A |          |

g p m - G a l l o n s p e r m i n u t e .  
WSA No. - Water Supply Application Number.  
gpd - Gallons per day.

\* Further well testing required.

**TABLE 2-M  
VILLAGE OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District                  | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)         | Comments   |
|--|--|---|---|--|
| Greenhill 1<br>-----<br>Village of Goshen        | 7,615<br>-----<br>285                        | 220<br>-----<br>103,774                           | 220<br>-----<br>124,528                                   | Flows directly into reservoir<br>Yield capacity added to reservoir |
| Greenhill 2<br>-----<br>Village of Goshen        | 7,615<br>-----<br>285                        | N/A<br>-----<br>N/A                               | N/A<br>-----<br>N/A                                       | Flows directly into reservoir<br>Yield capacity added to reservoir |
| Co. Civ. Def. Well<br>-----<br>Village of Goshen | 6,938<br>-----<br>100                        | 100<br>-----<br>47,170                            | 100<br>-----<br>56,604                                    | Not in service   |
| High School Well<br>-----<br>Village of Goshen   | 8,906<br>-----<br>145                        | 145<br>-----<br>68,396                            | 145<br>-----<br>82,075                                    | Not in service<br>Scheduled to be in service Spring<br>1995        |
| TOTALS   | (Total Permitted Yield)<br><br>530           | (Total Yield Capacity)<br>530<br>-----<br>250,000 | (Total Maximum Yield Capacity)<br>530<br>-----<br>300,000 |  |

g p m - G a l l o n s p e r m i n u t e .  
WSA No. - Water Supply Application Number. gpd - Gallons per day.



**TABLE 2-N  
VILLAGE OF GOSHEN**

**Summary of Well Yield Capacities**

| Well<br>-----<br>Water District | WSA No.<br>-----<br>Permitted Yield<br>(gpm) | Average Yield Capacity<br>(gpm)<br>-----<br>(gpd) | Maximum Yield Capacity<br>(gpm)<br>-----<br>(gpd)         | Comments |
|---------------------------------|--|---|---|----------|
| 1A<br>-----<br>Harness Estates  | 6,285<br>-----<br>70                         | 175<br>-----<br>176,400                           | 175<br>-----<br>252,000                                   |          |
| 3<br>-----<br>Harness Estates   | 6,285<br>-----<br>70                         | 180<br>-----<br>181,440                           | 200<br>-----<br>288,000                                   |          |
| TOTALS                          | (Total Permitted Yield)<br><br>70            | (Total Yield Capacity)<br>180<br>-----<br>259,200 | (Total Maximum Yield Capacity)<br>200<br>-----<br>288,000 |          |

g p m - G a l l o n s p e r m i n u t e .  
 WSA No. - Water Supply Application Number.  
 gpd - Gallons per day.

**TABLE 3-A  
TOWN OF GOSHEN**

**Summary of Water-Supply Sources  
Existing Sources**

| Existing Source                    | Water District                      | Ground Water<br>(mgd) |
|------------------------------------|-------------------------------------|-----------------------|
| Current Average Daily Water Demand | Hambletonian Park Water District #1 | 0.035                 |
|                                    | Arcadia Hills Water District #2     | 0.070                 |
|                                    | NYS Training School                 | 0.018                 |
|                                    | Mid-Hudson Psychiatric Center       | 0.040                 |
|                                    | Orange County Home & Infirmary      | 0.052                 |
|                                    | Scotchtown Park                     | 0.015                 |
|                                    | Stone Hedge                         | 0.018                 |
|                                    | Sorrento Cheese Company             | 0.090                 |
|                                    | Mack Brothers                       | <u>0.045</u>          |
|                                    | TOTAL:                              | 0.381                 |
| Current Maximum Daily Water Demand | Hambletonian Park Water District #1 | 0.090                 |
|                                    | Arcadia Hills Water District #2     | 0.129                 |
|                                    | NYS Training School                 | 0.050                 |
|                                    | Mid-Hudson Psychiatric Center       | 0.120                 |
|                                    | Orange County Home & Infirmary      | 0.140                 |
|                                    | Scotchtown Park                     | 0.030                 |
|                                    | Stone Hedge                         | 0.036                 |
|                                    | Sorrento Cheese Company             | 0.090                 |
|                                    | Mack Brothers                       | <u>0.082</u>          |
|                                    | TOTAL:                              | 0.765                 |
| Maximum Yield Capacity             | Hambletonian Park Water District #1 | 0.128                 |
|                                    | Arcadia Hills Water District #2     | 0.305                 |
|                                    | NYS Training School                 | 0.043                 |
|                                    | Mid-Hudson Psychiatric Center       | 0.158                 |
|                                    | Orange County Home & Infirmary      | 0.237                 |
|                                    | Scotchtown Park                     | 0.086                 |
|                                    | Stone Hedge                         | 0.043                 |
|                                    | Sorrento Cheese Company             | 0.147                 |
|                                    | Mack Brothers                       | <u>0.096</u>          |
|                                    | TOTAL:                              | 1.243                 |

mgd - Million gallons per day.

**COMMENTS:**

- ! Proposed Water Sources include Echo Lake Site, Houston Farm, Astro Water Supply Corporation, Maple Avenue Site, Good Time Park, and Goshen Golf Club.

**TABLE 3-A (Page 2)**

**TOWN OF GOSHEN**

**Summary of Water-Supply Sources**

**Existing Sources**

|   |  |  |
|---|--|--|
| <p><b>Average Yield Capacity</b></p>  | <p>Hambletonian Park Water District #1<br/>                     Arcadia Hills Water District #2<br/>                     NYS Training School<br/>                     Mid-Hudson Psychiatric Center<br/>                     Orange County Home &amp; Infirmary<br/>                     Scotchtown Park<br/>                     Stone Hedge<br/>                     Sorrento Cheese Company<br/>                     Mack Brothers</p> <p style="text-align: right;">TOTAL:</p> | <p>0.071<br/>                     0.175<br/>                     0.030<br/>                     0.066<br/>                     0.096<br/>                     0.060<br/>                     0.030<br/>                     0.076<br/> <u>0.062</u><br/>                     0.666</p> |
| <p><b>Proposed Sources (Average Day)</b></p>  |  | <p><b>2.0</b></p>  |
| <p><b>TOTAL MAXIMUM YIELD CAPACITY<br/>                     (MGD) =</b><br/>                     -----<br/> <b>CURRENT MAXIMUM DAILY USE (MGD)=</b></p> |  | <p><b>1.243</b><br/>                     -----<br/> <b>0.765</b></p>   |

mgd - Million gallons per day.

**COMMENTS:**

- ! Proposed Water Sources include Echo Lake Site, Houston Farm, Astro Water Supply Corporation, Maple Avenue Site, Good Time Park, and Goshen Golf Club.

**TABLE 3-B**  
**VILLAGE OF GOSHEN**

**Summary of Water-Supply Sources**

The Village of Goshen's current maximum daily usage exceeds the total maximum yield capacity by 0.365 mgd.

The Village's major sources of water are the Prospect and Greenhill Reservoirs, which will be supplemented by the High School well, which is scheduled to be placed in service in January 1995.

**Existing Source**

|  | <b>Surface Water (mgd)</b> | <b>Ground Water (mgd)</b> |
|--|----------------------------|---------------------------|
| Annual Average Daily Water Demand                    | 0.83 <sup>1/</sup>         | 0.0                       |
| Current Maximum Daily Water Demand                   | 1.1                        | 0.0                       |
| Maximum Yield Capacity                               | 0.625 <sup>2/</sup>        | 0.11 <sup>3/</sup>        |
| Average Yield Capacity                               | 0.625 <sup>2/</sup>        | 0.11 <sup>3/</sup>        |
| <b>Proposed Sources (Average Day)</b>                | <b>0</b>                   | <b>0.25<sup>4/</sup></b>  |
| <b>TOTAL MAXIMUM YIELD CAPACITY (MGD) =</b><br>----- |                            | <b>0.735</b><br>-----     |
| <b>CURRENT MAXIMUM DAILY USE (MGD) =</b>             |                            | <b>1.100</b>              |

mgd - Million gallons per day.

**COMMENTS:**

1/ Average daily water demand, June 1993-May 1994.

2/ Yield capacity values based on previous studies (CDM, 1982), (Pirnie, 1987), and (Corless, 1977).

3/ Proposed water source is the High School well, which is scheduled to be placed in service in Spring 1995. The well yield is less than the reported well yield because the well will only be pumped 14 hours per day. At present, the Village does not obtain any water from sources considered to be "groundwater".

4/ Proposed source of water is Harness Estates. The time frame for Harness Estates to start producing water is not known at present.

**TABLE 4-A**

**TOWN OF GOSHEN**

**Projected Water Demand  
1993 - 2020  
(mgd)**

| Water District | Current Maximum Yield Capacity (mgd) | Current and Proposed* Maximum Yield Capacity (mgd) | 1993 Projected Water Demand<br>-----<br>Water-Supply Adequacy | 2000 Projected Water Demand<br>-----<br>Water-Supply Adequacy | 2010 Projected Water Demand<br>-----<br>Water-Supply Adequacy | 2020 Projected Water Demand<br>-----<br>Water-Supply Adequacy |
|----------------|--------------------------------------|--|---|---|---|---|
| Town of Goshen | 1.243                                | 3.243  | 0.765<br>-----<br>+ 0.48**                                    | 1.233<br>-----<br>+ 2.478***                                  | 1.328<br>-----<br>+ 1.915***                                  | 1.467<br>-----<br>+1.776***                                   |
| <b>TOTAL</b>   | 1.243                                | 3.243  | 0.765<br>-----<br>+0.48**                                     | 1.233<br>-----<br>+2.478***                                   | 1.328<br>-----<br>+1.915***                                   | 1.467<br>-----<br>+1.776***                                   |

mgd - Million gallons per day.

+ Surplus water supply, mgd.

\* Combined yield capacity of both current and proposed water supply(s).

- Water supply deficiency (mgd).

\*\*Calculated by current maximum yield capacity minus projected water demands.

\*\*\*Calculated by current and proposed maximum yield capacity minus projected water demands.

**COMMENTS:**

- C Proposed sources are Echo Lake Site, Houston Farm, Astro Water Supply Corporation, Maple Avenue Site, Good Time Park, and LADS Development Corporation (Goshen Golf Club). Proposed yield capacity based on 18-hour pump rate.

**TABLE 4-B**  
**VILLAGE OF GOSHEN**

**Projected Water Demand**  
**1993 - 2020**  
**(mgd)**

| Water District    | Current Maximum Yield Capacity (mgd) | Current and Proposed* Maximum Yield Capacity (mgd) | 1993 Projected Water Demand<br>-----<br>Water-Supply Adequacy | 2000 Projected Water Demand<br>-----<br>Water-Supply Adequacy | 2010 Projected Water Demand<br>-----<br>Water-Supply Adequacy | 2020 Projected Water Demand<br>-----<br>Water-Supply Adequacy |
|-------------------|--------------------------------------|--|---|---|---|---|
| Village of Goshen | 0.73                                 | 0.73   | 1.1<br>-----<br>- 0.37***                                     | 1.52<br>-----<br>- 0.79***                                    | 1.57<br>-----<br>- 0.84***                                    | 1.64<br>-----<br>- 0.91***                                    |
| <b>TOTAL</b>      | 1.05                                 | 1.30   | 1.1<br>-----<br>- 0.37***                                     | 1.52<br>-----<br>- 0.79***                                    | 1.57<br>-----<br>- 0.84***                                    | 1.64<br>-----<br>- 0.91***                                    |

mgd - Million gallons per day.

+ Surplus water supply, mgd.

\* Combined yield capacity of both current and proposed water supply(s).

- Water supply deficiency (mgd).

\*\*Calculated by current maximum yield capacity minus projected water demands.

\*\*\*Calculated by current and proposed maximum yield capacity minus projected water demands.

**COMMENTS:**

C Proposed source of water is Harness Estates.

C Proposed yield capacity based on 18-hour pump rate.

TABLE 5

**TOWN OF GOSHEN  
ORANGE COUNTY, NEW YORK**

**Petroleum Bulk Storage Facilities**

| FACILITY NAME                      | LOCATION                    | MUNICIPALITY |
|------------------------------------|-----------------------------|--------------|
| G & U Inc.                         | RD 2                        | Goshen       |
| Goshen Central Schools             | Main Street                 | Goshen       |
| Goshen Central Schools             | Lincoln Avenue              | Goshen       |
| Goshen Central Schools             | HS is SAS BG off Scotchtown | Goshen       |
| Goshen Post Office                 | 20 Grand Street             | Goshen       |
| Goshen Sunoco Service Inc.         | Greenwich Green Streets     | Goshen       |
| HL & F McBride Inc.                | 289 W. Main Street          | Goshen       |
| Holland Electric Co., Inc.         | Rte 17M, Box 298            | Goshen       |
| John S. Burke H.S.                 | Fletcher Street             | Goshen       |
| Lloyds Gas & Service               | Greenwich Avenue            | Goshen       |
| Mobil S/S 06KF6                    | Greenwich Avenue & Rte 17   | Goshen       |
| Myruski Farms Inc.                 | RD 2, Box 187A              | Goshen       |
| NYS Div. Youth Goshen Secure CE    | Drawer 90, Cross Road       | Goshen       |
| O.C. 1887 Building                 | Main Street                 | Goshen       |
| O.C. Board of Elections            | Webster Avenue              | Goshen       |
| O.C. Department of Social Services | Quarry Road                 | Goshen       |
| Orange & Ulster Vaccum Cool In     | 127 Maple Avenue            | Goshen       |
| O.C. Landfill                      | Route 17M                   | Goshen       |
| O.C. Government Center             | Main Street                 | Goshen       |
| O.C. Home & Infirmary              | Quarry Road                 | Goshen       |

TABLE 5 (Page 2)

**TOWN OF GOSHEN  
ORANGE COUNTY, NEW YORK**

**Petroleum Bulk Storage Facilities**

| FACILITY NAME                     | LOCATION                   | MUNICIPALITY |
|-----------------------------------|----------------------------|--------------|
| Orange-Ulster BOCES               | RD 2, Gibson Road          | Goshen       |
| Presentation Sisters              | Fletcher Street            | Goshen       |
| Richard Pawelski Farms            | RD 2 Box 290               | Goshen       |
| Shuback Farms Inc.                | RD 2 Mt. Eve Road          | Goshen       |
| Sorrento Cheese Company           | Rte 17A                    | Goshen       |
| Stewart's Shop #323               | Rte 17 at Maple Avenue     | Goshen       |
| Town of Goshen Highway Department | Maple Avenue Extension     | Goshen       |
| Village of Goshen DPW Garage      | N. Church Street           | Goshen       |
| Healey Chevrolet                  | 183 Greenwich Avenue       | Goshen       |
| Ward Pavements Inc.               | Rte 17M                    | Goshen       |
| Airspray Inc.                     | Pulaski Highway            | Goshen       |
| Al Turi Landfill                  | Hartley Road & NYS Rte 17M | Goshen       |
| Al Turi Landfill #2               | RD 1 Box 12D               | Goshen       |
| All Waste Systems Inc.            | Hartley Road               | Goshen       |
| Arden Hill Hospital               | Harriman Drive             | Goshen       |
| Carriage Hill Apartments          | Woodhills Drive            | Goshen       |
| St. John's Church                 | 71 Murray Avenue           | Goshen       |
| Cloverleaf Exxon #1977            | Rte 17A & Matthews Street  | Goshen       |
| DPW Main Garage                   | Rte 17M                    | Goshen       |
| Dutchess Quarry & Supply          | Rte 17A                    | Goshen       |