

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

Prepared for

Orange County Water Authority

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McGoey, Hauser and Edsall Consulting Engineers, P.C.
45 Quassaick Avenue
New Windsor, New York 12553

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

EXECUTIVE SUMMARY

The Town of New Windsor operates the Consolidated Water District which supplies water to the residents of the Town within the District. The Consolidated Water District relies on the Catskill Aqueduct for its sole source of water during non-emergency situations. During an emergency, the Town can provide water from interconnections to the Town of Newburgh and City of Newburgh water systems.

The current average daily water demand within the Consolidated Water District is 2.1 million gallons per day. The District experiences peak demands during summer months of 3.5 million gallons per day. This peak demand is in excess of the District's permitted capacity. The Town of New Windsor applied to the New York State Health Department to increase its filter rates to meet the maximum daily demand.

The Town is also proceeding with pilot testing and design of a 1.0 mgd expansion to the Riley Road Filter Plant to meet expected future needs within the Town.

The Town of New Windsor operates the Stewart Water District which provides water to the Stewart International Airport Complex located in the Town. The Stewart Water District also utilizes the Catskill Aqueduct as its sole source of water. The Stewart Water District has an average daily demand of 0.45 mgd. The system contains a 2 million gallon surface reservoir which attenuates any peaks experienced by the system.

The Town of New Windsor has conceptual plans to connect the Stewart Water District to the Consolidated Water District in the future. This will consolidate the Town's water treatment at an expanded Riley Road Treatment Facility.

No prolific ground-water resources were identified within the Town during this study. A review of the Stewart Airport Facilities Environmental Impact Statement did not reveal any significant ground-water resources on Stewart Airport properties.

The Town of New Windsor will proactively respond to increased need for potable water by expanding the existing Riley Road Filter plant in the future, as demand requires.

INTRODUCTION

McGoey, Hauser and Edsall has been retained by the Orange County Water Authority to serve as the community consultant for the Town of New Windsor. The Water Authority is conducting a regional ground-water study in the County. As community consultants, McGoey, Hauser and Edsall Consulting Engineers, P.C. reviewed information regarding the existing water systems in the Town, and reviewed the water supplies with regard to meeting proposed future demands. Mapping was prepared for the Town, identifying land use and known and potential ground-water contamination sites.

The Town of New Windsor operates two separate Water Districts, the Consolidated Water District and the Stewart Water District.

EXISTING WATER SUPPLY SYSTEMS

Consolidated Water District

The Consolidated Water District was formed in May, 1975, and it encompasses all of the previous Water Districts located in the Town of New Windsor. The Consolidated Water District was formed to evenly spread the debt service for the proposed Riley Road Filter Plant. It also allowed the Town to charge equal rates among all users in the Town. The Consolidated Water District utilizes the New York City Catskill Aqueduct as its source of supply.

Well Supply Not In Service

The Town has a standby well located in the former Schoonmaker subdivision. This well is utilized only when water is purchased from the City of Newburgh under emergency conditions. This well supplies the Sunrise Terrace area of the Town when water is purchased from the City of Newburgh. The pressure and velocity of the water entering the Town of New Windsor system is very high, and the water bypasses the Sunrise Terrace distribution system. To supplement the supply to Sunrise Terrace, well water is pumped from the well to the former water plant along Route 9W, where it is disinfected and pumped into the system.

This well has not been operated in several years. The condition of this equipment is, therefore, unknown.

Stewart Field Water System

The Stewart Field Water District serves the Stewart International Airport complex, including the military housing (STAS), the airport facilities, and the Metal Container Corporation.

The Stewart Water District is served solely by surface water obtained from New York City's Catskill Aqueduct. No wells serve the system.

PROPOSED COMMUNITY WATER SUPPLY SYSTEMS

A review of the projects pending before the Town of New Windsor Planning Board did not reveal any new or proposed community water systems. All projects pending are within the existing Water Districts or involve proposed Water District extensions (MH&E, 1993).

WATER SUPPLY DEMAND

Consolidated Water District

The existing Riley Road Water Filter Plant produces sufficient quantities of water to meet or exceed the average daily water demand of 2.1 mgd. The Consolidated Water System experiences peak summer water demand in excess of its permitted capacity. The District has experienced peak demands greater than 3.5 mgd.

The Water District is interconnected to the water systems of both the Town and City of Newburgh. These interconnections are utilized only as emergency water sources, not to supplement peak demands.

The Town has pumped water over land via an emergency above-ground 10" diameter water pipe line from Silver Stream Reservoir (aka Browns Pond) to the Filter Plant during a scheduled Catskill Aqueduct shutdown. The above-ground water pipe line was left in place, and this system can be set up with several days notice for use during an emergency situation.

Stewart Water District

The Stewart Water District has an average daily water demand of 0.45 mgd and receives all of its supply from the NYC Catskill Aqueduct.

The Stewart Water District has experienced a peak maximum daily water demand of 1.17 mgd. The District has a two million gallon surface reservoir, which stores treated water prior to distribution. This

reservoir attenuates the effects of peak demands on the system.

Projected Water Demands

The projected water demands for the Consolidated and Stewart Water Districts are depicted in Table 4. The Town of New Windsor will have sufficient water to meet the projected water demands of the Consolidated Water District until the year 2010. The entire Town will have a surplus until the year 2020; however, the surplus will be in the Stewart Water District, while the Consolidated Water District will have a deficit in the year 2020 (OB&G, 1990). This deficiency could be negated if the Town of New Windsor proceeds with the expansion of the Riley Road Filter Plant and the proposed Water District 9, which will connect the Stewart Water District to the Consolidated Water District. These projects are in the preliminary design/feasibility stage as of this date.

GEOLOGY

No existing or potential prolific sand and gravel aquifers were identified during this study, nor were significant sources of ground-water identified. A review of the Stewart International Airport Properties Draft Federal/State Environmental Impact Statement, prepared by Berger Lehman Associates, P.C., reveals no significant ground-water resource on the airport properties (Berger Lehman Assoc., 1990).

Additional Sand and Gravel Aquifers

The USGS, Frimpter mapping reveals several sand and gravel aquifers which consist of stratified clay and silt, with no sand and gravel at the surface or below the water table and several sand and gravel aquifers which extend above and below the water table. These areas are associated with large NYSDEC regulated wetlands. The wetland areas serve as the recharge areas for the aquifers. A major contribution to the region's topography is the effects of the most recent glacial episode. The Wisconsin ice sheet receded from the area 10,000 - 15,000 years ago. These glaciers resulted in the deposition of unstratified fill deposits, glacial outwash areas and glacial lake deposits (Frimpter, 1972).

BEDROCK GEOLOGY

The majority of the Town of New Windsor is located in the valley and ridge province. These ridges and valleys tend to run north-south. The bedrock geology of the western portion of the Town is predominantly shales, siltstone, and sandstones of the Martinsburg Formation.

The bedrock in the eastern portion of the Town is composed of the Mount Merino (shale) Formation (Fisher, 1970).

The bedrock aquifers are typically suitable for individual homes. The wells will be considered low yield wells providing less than 50 gpm (MH&E, 1993).

LAND USE

There is extensive residential development within the Town, east of the New York State Thruway, with scattered residential development west of the Thruway. The area around Beaver Dam Lake also contains very dense residential development. Strips of commercial development, consisting of stores, food service, and various retail establishments are located along the State highways within the eastern portion of the Town (Space Track, 1993).

WATER QUALITY

The Town's water source, the Catskill Aqueduct, provides water of good quality. The Town, however, has had some problems with filtering high rates during cold weather periods when the influent has high turbidity. This high turbidity is associated with the spring and fall turnover in the NYC reservoirs. However, these high turbidity times coincide with off-peak demand times of the year; so they do not have a significant effect on the system operations (MH&E, 1993).

The water quality of the bedrock aquifers is generally good, however, some wells contain high iron and/or manganese. Isolated portions of the Town have ground-water with odor problems due to a high hydrogen sulfide content.

INVENTORY OF GROUND-WATER CONTAMINATION PROBLEMS

Existing Ground-Water Contamination Problems

The following existing ground-water contamination sites have been identified from the information obtained from NYSDEC by Lawler, Matusky and Skelly Engineers (LMS, 1993).

Weygent Property

This site, located off Bull Road in the Town of New Windsor, near the Blooming Grove Town line, was a disposal site for motor vehicle batteries and construction and demolition debris. No monitoring wells have been installed to date. The site is listed as an inactive hazardous waste site.

ATI - Route 32 Vails Gate

This site, located on the east side of the intersection of NYS 32 and NYS Route 94, was a gas station. The site remediation includes a pump contract system and the removal of contaminated material. A quantity of soil is stockpiled at the site.

Newburgh State Police Barracks - Bruenig Road

The trooper barracks is located along the main entrance to Stewart International Airport. This site was contaminated by a fuel spill from the petroleum bulk storage tanks. This site is being remediated by the New York State Office of Government Services.

Mobil Service Station #06-LY2 - Union Avenue and Route 207

The service station is located in the northwest quadrant of the intersection of Union Avenue and Route 207. This is an active gasoline station. The spill is being remediated; utilizing an air striping system.

Mobil Service Station #06-N2X - Route 32 and Route 94

This service station is located in the southwest quadrant of the intersection of Route 32 and Route 94. A small petroleum spill occurred from a broken pipeline which was repaired.

Town of New Windsor Highway Garage - Union Avenue

The Town of New Windsor Highway Facility is located on the west side of Union Avenue opposite Washington Lake and adjoining the NYS Thruway.

The former petroleum bulk storage tanks on-site were identified as leaking. Tanks were pulled and a large quantity of fuel contaminated soil was removed. The Town maintains a soil gas vapor extraction system to remediate the site.

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).

This section identifies potential ground-water contamination sites within the Town of New Windsor. These sites were identified by LMS Engineer in conjunction with a NYSDEC records search. The following sites were inventoried and are depicted on Plate 1.

Former Town of New Windsor Landfill - Square Hill Road

The former Town landfill occupies a 14 acre site at the end of Square Hill Road. The site has recently been closed under NYSDEC Part 360 Regulations. The site has been reclassified from a 2A inactive hazardous waste site, to a Class 4 closed landfill. A monitoring program is in effect to detect contamination leaving the site.

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 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 Sites

The FOIL request from NYSDEC inventoried the petroleum bulk storage facilities 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

The Town of New Windsor relies on the Catskill Aqueduct for its water supply in both the Consolidated Water District and Stewart Field Water District. The information gathered for this report identifies a shortfall in water supply within the Consolidated Water District in the year 2020, even with the 1.0 mgd expansion of the existing Riley Road Filter Plant. This shortfall could be alleviated by further expanding the Riley Road Filter Plant as demand rises.

The Town has conceptual plans for expanding the existing Riley Road Filter Plant to 6 mgd and eliminating the Stewart Filter Plant by interconnecting the Stewart distribution system to the Consolidated Water District. The Town of New Windsor will proactively respond to water supply issues as demand requires.

No significant sources of ground-water were identified during the course of this study. A review of the Stewart International Airport Properties Draft Federal/State Environmental Impact Statement, prepared by Berger Lehman Associates, P.C., reveals no significant ground-water resources on the airport properties.

REFERENCES

Berger Lehman Associates, 1990, Stewart International Properties Draft Federal/State Environmental Impact Statement.

EA Engineering, April 1990, "RI/FS New Windsor Landfill", New Windsor, New York.

Fisher, Donald, Y.W. Isacksen and L.V. Rickard, 1970, Geologic Map of New York, Lower Hudson Sheet, New York State Museum and Science Service Map and Chart, Series No. 15.

Frimpter, Michael H., 1972, Ground-water Resources of Orange and Ulster Counties, New York, U.S. Geological Survey Water-Supply Paper, 1985.

Lawler, Matusky & Skelly Engineers, October 1993, "Environmental Data Gathering for Community Consultant, Town of New Windsor" File #677-001.

McGoey, Hauser and Edsall, October 1993, Review of Engineering Files.

O'Brien and Gere, January 1990, "High Rate Filtration Study" File 4106.001.

Verbal Communication, September 1993, Steve DiDio, Former Town Water Superintendent.

Space Track, Inc., 1993, "Orange County Landuse Maps."

TABLE 1

TOWN OF NEW WINDSOR

Summary of Available Well Data

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Well ----- Water District	Tax Map Municipality Section ----- Block ----- Lot	Map Location ----- I.D. #	Well Status	Reported Yield (gpm) Original ----- Present	Depth of Well (feet)	Well Diameter (inches)	Length of Casing (feet)	Well Screen Length (feet) ----- Setting Interval (feet)	Aquifer	Date Drilled	Comments

gpm - Gallons per minute.
 NA - Not available.

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

nwtbl/orange

NW-10

Inactive - not equipped
Abandoned

A:\TNWT1&2.MK

TABLE 2

TOWN OF NEW WINDSOR

Summary of Well Yield Capacities

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Well ----- Water District	WSA No. ----- Permitted Yield (gpm)	Average Yield Capacity (gpm) ----- (gpd)	Maximum Yield Caacity (gpm) ----- (gpd)	Comments
TOTALS	(Total Permitted Yield)	(Total Yield Capacity)	(Total Maximum Yield Capacity)	

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

WSA No. - Water Supply Application Number.

TABLE 3

MUNICIPALITY: Town of New Windsor

Summary of Water-Supply Source

The Consolidated Water District and Stewart Water District both receive water from the NYC Catskill Aqueduct System. No ground-water sources are available.

Existing Source

	Surface Water (mgd)	Ground Water (mgd)
Current Average Daily Water Demand	1) CWD 2.1 2) Stewart 0.45 TOTAL 2.55	0
Current Maximum Daily Water Demand	1) CWD 3.5 2) Stewart 1.17 TOTAL 4.67	0
Maximum Yield Capacity	1) CWD 3.0 2) Stewart 1.2 TOTAL 4.2	0
Average Yield Capacity	1) CWD 2.1 2) Stewart .465 TOTAL 2.56	0
Proposed Sources (Average Day)	1) CWD 1	0
*TOTAL MAXIMUM YIELD CAPACITY (MGD) =		4.2 (MGD)
*CURRENT MAXIMUM DAILY USE (MGD) =		4.67 (MGD)

mgd - Million gallons per day.

* Combine surface water and ground-water sources.

COMMENTS

! CWD - Consolidated Water District.

! Due to short falls in the CWD, the Town of New Windsor is proceeding with testing and design of an expansion to the Riley Road Filter Plant. The Town has applied to the NYS Health Department for increased filter rates. Water can be purchased from the Town of Newburgh and City of Newburgh via interconnects during emergencies.

TABLE 4
TOWN OF NEW WINDSOR

Projected Water Demand
1993 - 2020
(mgd)

Water District	Current Maximum Yield Capacity (mgd)	Current and Proposed* Maximum Yield Capacity (mgd)	1993 Projected Water Demand ----- Water-Supply Adequacy**	2000 Projected Water Demand ----- Water-Supply Adequacy** or ***	2010 Projected Water Demand ----- Water-Supply Adequacy** or ***	2020 Projected Water Demand ----- Water-Supply Adequacy** or ***
Consolidated	3.0	4	2.1 ----- +0.9**	3.191 ----- +0.81***	3.676 ----- +0.324***	4.176 ----- -0.176***
Stewart	1.17	1.17	0.45 ----- +0.72**	0.5 ----- +0.67**	0.75 ----- +0.42**	1.0 ----- +0.17**
TOTAL	4.17	5.17	2.55 ----- +1.62**	3.69 ----- +1.48***	4.42 ----- 0.744***	5.176 ----- 0***

mgd - Million gallons per day.

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

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

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

+ Surplus water supply, mgd.

- Water supply deficiency (mgd).

COMMENTS:

! The Town is studying the feasibility of connecting the two water districts in the future and expanding the Riley Road Treatment Plant, to provide for the projected water demands in the Town.

TABLE 5

MUNICIPALITY: Town of New Windsor

PETROLEUM BULK STORAGE

Facility Name	Location	Municipality
317 Route 32	317 Route 32	New Windsor
American Felt & Filter Co.	Walsh Avenue	New Windsor
Arrow Carrier Corp.	Caesars Lane	New Windsor
Bearse Manufacturing Co.	230 MacArthur Avenue	New Windsor
Belcher	Route 207	New Windsor
Big "S" Oil Co Inc	90 River Road	New Windsor
Big Saver	Route 207	New Windsor
Blue Chip Golf	Route 32	New Windsor
Bruno Bros Automotive Techs In	262 Quassaick Avenue	New Windsor
Buckner Waste Oil Svce & Ind	Sloop Hill Road	New Windsor
Crowley Foods Inc-Newburg Sale	Hempstead Road	New Windsor
Cumberland Farms #3123	602 Little Britain Road	New Windsor
Cumberland Farms #3124	204 Quassaick Avenue	New Windsor
Cumberland Farms #3113	405 Blooming Grove Turnpike	New Windsor
Dairy Mart #6666	173 Windsor Highway	New Windsor
Days Inn of Newburgh	845 Union Avenue	New Windsor
Dennison Monarch Sys Inc	Mal Arthur Avenue	New Windsor
Division of Kollmorgen Inst. Corp.	Little Britain Road	New Windsor
Federal Block Corporation	129 Walsh Avenue	New Windsor
Forge Hill Assoc.	226B Forge Hill Road	New Windsor
George Ross	272 Windsor Avenue	New Windsor
Getty 58726	800 Blooming Grove Turnpike	New Windsor
Great Garageman LTD	209 Quassaick Avenue Route 94	New Windsor
Great Garagemen, LTD	209 Quassaick Avenue	New Windsor

**TABLE 5
CONTINUED**

MUNICIPALITY: Town of New Windsor

PETROLEUM BULK STORAGE

Facility Name	Location	Municipality
Hertz Rental Corp.	Bldg. 2300 4 St. Stewart Airt.	New Windsor
Hilta Gibson & Miller Inc.	208 MacArthur Avenue	New Windsor
Kaiser Binding Inc.	MacArthur and Walnut Avenue	New Windsor
Kingswood Gardens Condominiums	114 Kingswood Gardens	New Windsor
Marvin Landman Inc.	111 Windsor Highway	New Windsor
McQuade Foundation	P.O. Box 4064 Route 94	New Windsor
Meadowbrook Lodge Inc	RD 8 Route 94	New Windsor
Mid-Hudson Oxygen Co Inc	133 Walsh Avenue	New Windsor
Mobil S/S 06-LY2	801-803 Union Avenue	New Windsor
Mt. Ellis Paper Co. Inc.	214 MacArthur Avenue	New Windsor
New England Motor Freight Inc.	MacArthur Avenue	New Windsor
New Windsor A.T.I. #312	325 Route 94 and 9W	New Windsor
New Windsor Auto Repair	363 Windsor Highway	New Windsor
New Windsor Crestview Lake	Drury Lane	New Windsor
New Windsor Garage	NYS Route 300 Union Avenue	New Windsor
New Windsor Highway Department	875 881 Union Avenue	New Windsor
New Windsor Recreation Dept.	244 Union Avenue	New Windsor
New Windsor Sewage Treatment Plant	Caesars Lane	New Windsor
New Windsor Water Department	43 49 Route 9L1	New Windsor
New Windsor Water Filtration Plant	233 Riley Road	New Windsor
Newburgh Packing	439 Little Britain Road	New Windsor
Orange County Rehab Cntr-Occupat	67 Windsor Highway Route 32	New Windsor
Patterson Materials Corp	Walsh Road Box 4074	New Windsor
Plaza Materials Concrete Plant	Ruscitti Road	New Windsor
Plaza Materials Newburgh Asph	Ruscitti Road	New Windsor

**TABLE 5
CONTINUED**

MUNICIPALITY: Town of New Windsor

PETROLEUM BULK STORAGE

Facility Name	Location	Municipality
Roadway Express Inc.	308 Windsor Highway	New Windsor
Rosenbaum Industries Inc.	389 Windsor Highway P.O. Box 42B	New Windsor
S & K Service Center Inc.	412 Blooming Grove Turnpike	New Windsor
Sewage Treatment Plant	555 Union Avenue	New Windsor
Squire Village Condos	C/O Emerald Management	New Windsor
Stewart Field II ATI #327	635 Little Britain Road	New Windsor
Stewart Liner Transportation C	Union Ave & Liner Rd P.O. Box 2718	New Windsor
T.F. Prendergast Fuels Inc.	645 Little Britain Road	New Windsor
The Coca Cola Bottling Co.	10 Hemstead Road	New Windsor
Town of New Windsor Filtration Plant	233 Riley Road	New Windsor
Triangle Pacific Corp	55 Windsor Highway P.O. Box 4265	New Windsor
United Parcel Service	Route 300 Gateway International	New Windsor
Vails Gate Fire Co. Station #1	North West Side	New Windsor
Vails Gate School	320 Old Forge Hill Road	New Windsor
Water Filtration Plant	Little Britain Road	New Windsor
Windsor Electric Co., Inc.	487 Union Avenue	New Windsor
Yonnone's Auto Repair	64 Route 9W	New Windsor
Brittany Terrace Inc.	Station Road	Rock Tavern
Quickway Metal Fabricators Inc.	Route 17K	Rock Tavern
Ryder Truck Rental Inc.	RD 119 Stone Castle Road	Rock Tavern
Smiths Transfer Corp.	Stone Castle Road	Rock Tavern
St. Johnsbury Trucking Co., Inc.	Stone Castle Road	Rock Tavern
TNT Red Star Express	54 Stone Castle Road	Rock Tavern
USDA Aphis Vs	NY Animal Import Center	Rock Tavern

**TABLE 5
CONTINUED**

MUNICIPALITY: Town of New Windsor

PETROLEUM BULK STORAGE

Facility Name	Location	Municipality
Dairy Mart #6668	Route 32 and 94	Vails Gate
Hess Station 32430	Route 32 and Temple Hill	Vails Gate
Mickey Biggs Quality Auto Body	P.O. Box 181 Route 32	Vails Gate
Mobil S/S 06-N2X McConnell's S	Route 32 and 94	Vails Gate
New Windsor Cantonment	Temple Hill Road	Vails Gate
Stewarts Shop #330	Old Temple Hill Road	Vails Gate
Strober King Building Supply	125 Temple Hill Road Box 726	Vails Gate
Tarkett	Route 94 Box 128	Vails Gate
Vails Gate ATI #326	Route 32 and 94	Vails Gate
West Point Tours	P.O. Box 125 Route #94	Vails Gate
Windsor Metal Fabrications LTD	Temple Hill Road P.O. Box 575	Vails Gate

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