

MRB|group

Project Title Village of Watkins Glen Comprehensive Water Study
Project No.: 2330.19001
Date: November 19, 2019
Engineer: J. Lang-Bentley

Subject: EDU calculations based on quaterly water use for one year categorized by user.

2018 Use	Total Use (1000 gal)	Residential			Commercial		Institutional		Industrial		Total Connections
		Residential Use (1000 gal)	Conn	Unit Flowrate (gpd/conn)	Commercial Use (1000 gal)	Conn	Institutional Use (1000 gal)	Conn	Industrial Use (1000 gal)	Conn	
Village of Watkins Glen	157,622	82,862	879	262	57,010	47	17,000	13	750	3	942
Town of Dix	11,601	10,351	72		750	5	500	5	0	0	82
Town of Reading	1,544	1,544	38		0	0	0	0	0	0	38
EDU's	1,782		989		603		183		8		1,062

Average Total Use	467,854 gpd										
Unit Use	95,811 gpy/EDU										
Unit Use	262 gpd/EDU										
Actual Sewer Users	1,143										
Total Water Budget	\$ 752,130.00										
Cost per user	\$ 658.03										
Existing Cost per 1000 gal	\$ 6.01										
Total Annual Use (Est.)	170,766,487 gal/year										
1000 gallons	170,766										
Average Annual Revenue	\$ 1,026,306.59										
Estimated Project Cost	\$ 16,000,000.00										
Cost Increase per 1000 gal	\$ 93.70 yr/conn										
	\$ 7.81 mon/conn										
Proposed Annual Cost/year	\$ 1,782,265.00										
Change in cost	\$ 755,958.41										
Cost per connection/year	\$ 802.50										
Rate increase/1000 gallons	13%										

ALL USERS	VILLAGE
water-00	Residential
22,511,250 CCF	879 connections
water-01	100 - 399
108,937 CCF	82,861,979 gal/year
water-02	Commercial
116 CCF	47 connections
22,620,303 CCF	400 - 599
169,222,487 gal/year	57,010,000 gal/year
Village	Institutional
942 users	13 connections
21,069,640 CCF	600 - 699
157,621,979 gal/year	17,000,000 gal/year
800 - 980	Industrial
Dix	700 - 799
201 users	3 connections
(T-accounts)	750,000 gal/year
1,550,663 CCF	
11,600,508 gal/year	TOTAL
Reading	942 connections
86 users	157,621,979 gal/year
206,390 CCF	
1,544,000 gal/year	

*WGI is included in residential calculations