

**APPENDIX J: WASTEWATER**  
**UPDATED WASTEWATER DEMAND**

**Daily Wastewater Design Flows**  
**Phase 1 - Residential**  
**Silo Ridge Resort Community**

Project Component	Flow	Unit Quantity	Flow Generation Rate (GPD) <sup>1</sup>	Flow Reduction Credit	Average Daily Flow (GPD)
<b>Phase 1 Residential Summary</b>					
<b>Village Green Condos</b>					
3 BR Condo	3 BR Unit	58	400	20%	18,560
4 BR Condo	4 BR Unit	22	475	20%	8,360
<b>Single Family</b>					
Village Green 5 BR	5 BR Unit	9	550	20%	3,960
Village Green 4 BR	4 BR Unit	17	475	20%	6,460
Golf Villas 5 BR	5 BR Unit	8	550	20%	3,520
Golf Villas 4 BR	4 BR Unit	21	475	20%	7,980
South Lawn 5 BR	5 BR Unit	7	550	20%	3,080
South Lawn 4 BR	4 BR Unit	3	475	20%	1,140
Estate Homesite	5 BR Unit	17	550	20%	7,480
<b>Total</b>					<b>60,540</b>
<b>Sub Total Phase 1 Residential Wastewater Flows = 60,540 G.P.D.</b>					
<b>Phase 1 Non-Residential Summary</b>					
<b>Lodge Clubhouse</b>					
Restaurant	Number of Seats	167	35	20%	4,676
Store / Pro Shop	Employee	4	15	20%	48
Pool	Swimmer	50 <sup>2</sup>	10	20%	400
Sales House - General Store	SF	5,000	0.1	20%	400
<b>Activity Barn</b>					
Bathrooms	Each	2 <sup>2</sup>	400	20%	640
Pool	Swimmer	50 <sup>2</sup>	10	20%	400
<b>Pool Fitness</b>					
Pool	Swimmer	50 <sup>2</sup>	10	20%	400
Bathrooms	Each	2 <sup>2</sup>	400	20%	640
Showers	Each	8 <sup>2</sup>	10	20%	64
Golf Maintenance Building	SF	11,500	0.1	20%	920
Golf Academy	Sudent	40 <sup>2</sup>	10	20%	320
<b>Lake Pavilion</b>					
Bathrooms	Each	2 <sup>2</sup>	400	20%	640
<b>Comfort Stations</b>					
Bathrooms	Each	4 <sup>2</sup>	400	20%	1,280
Snack Seating	Number of Seats	53	35	20%	1,484
<b>Total</b>					<b>12,312</b>
<b>Sub Total Phase 1 Non-Residential Wastewater Flows = 12,312 G.P.D.</b>					
<b>Total Phase 1 Wastewater Flows = 72,852 G.P.D.</b>					

1 - Hydraulic Loading Rates as per NYSDEC Design Standards for Wastewater Treatment Works 1988

2 - Certain assumptions were made regarding daily wastewater flow generation. Prior to final wastewater design uses and anticipated flows shall be confirmed with applicant

**Daily Wastewater Design Flows  
Phase 2  
Silo Ridge Resort Community**

Project Component	Flow	Unit Quantity	Flow Generation Rate (GPD) <sup>1</sup>	Flow Reduction Credit	Average Daily Flow (GPD)
<i>Phase 2 Summary</i>					
<b>Lodge</b>					
Lodge Clubhouse	1 BR Unit	5	150	20%	600
<b>Single Family</b>					
South Lawn 5 BR	5 BR Unit	6	550	20%	2,640
South Lawn 4 BR	4 BR Unit	17	475	20%	6,460
Estate Homesite	5 BR Unit	41	550	20%	18,040
<b>Total</b>					27,740
<b>Sub Total Phase 2 Wastewater Flows = 27,740 G.P.D.</b>					

**Daily Wastewater Design Flows  
Phase 3  
Silo Ridge Resort Community**

Project Component	Flow	Unit Quantity	Flow Generation Rate (GPD) <sup>1</sup>	Flow Reduction Credit	Average Daily Flow (GPD)
<i>Phase 3 Summary</i>					
<b>Winery Building</b>					
Restaurant	Number of Seats	80	35	20%	2,240
Winery	Allowance	1	2000 <sup>2</sup>	20%	1,600
<b>Vineyard Cottages Pool and Cabana</b>					
Pool	Swimmer	50 <sup>2</sup>	10	20%	400
Bathrooms	Each	2 <sup>2</sup>	400	20%	640
<b>Single Family</b>					
Vineyard Cottages	3 BR Unit	19	400	20%	6,080
<b>Total</b>					10,960
<b>Sub Total Phase 3 Wastewater Flows = 10,960 G.P.D.</b>					

<b>Total Phase 2 &amp; 3 Wastewater Flows = 38,700 G.P.D.</b>					
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2 - Certain assumptions were made regarding daily wastewater flow generation. Prior to final wastewater design uses and anticipated flows shall be confirmed with applicant