

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) ¹	Flow Reduction Credit	Average Daily Flow (GPD)
Phase 1 Residential Summary					
Village Green Condos					
3 BR Condo	3 BR Unit	58	400	20%	18,560
4 BR Condo	4 BR Unit	22	475	20%	8,360
Single Family					
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
Total					60,540
Sub Total Phase 1 Residential Wastewater Flows = 60,540 G.P.D.					
Phase 1 Non-Residential Summary					
Lodge Clubhouse					
Restaurant	Number of Seats	167	35	20%	4,676
Store / Pro Shop	Employee	4	15	20%	48
Pool	Swimmer	50 ²	10	20%	400
Sales House - General Store	SF	5,000	0.1	20%	400
Activity Barn					
Bathrooms	Each	2 ²	400	20%	640
Pool	Swimmer	50 ²	10	20%	400
Pool Fitness					
Pool	Swimmer	50 ²	10	20%	400
Bathrooms	Each	2 ²	400	20%	640
Showers	Each	8 ²	10	20%	64
Golf Maintenance Building	SF	11,500	0.1	20%	920
Golf Academy	Sudent	40 ²	10	20%	320
Lake Pavilion					
Bathrooms	Each	2 ²	400	20%	640
Comfort Stations					
Bathrooms	Each	4 ²	400	20%	1,280
Snack Seating	Number of Seats	53	35	20%	1,484
Total					12,312
Sub Total Phase 1 Non-Residential Wastewater Flows = 12,312 G.P.D.					
Total Phase 1 Wastewater Flows = 72,852 G.P.D.					

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) ¹	Flow Reduction Credit	Average Daily Flow (GPD)
<i>Phase 2 Summary</i>					
Lodge					
Lodge Clubhouse	1 BR Unit	5	150	20%	600
Single Family					
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
Total					27,740
Sub Total Phase 2 Wastewater Flows = 27,740 G.P.D.					

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

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

Total Phase 2 & 3 Wastewater Flows = 38,700 G.P.D.					
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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