

APPENDIX D

Annual Water Balance Spreadsheet

**Water Balance-Limited DWTP Percolation+IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2008 w/Sunnyslope**

AAF in Year 2008 (MGD): 2.97
 Irrigation Type: Pasture 54 Turf 90 Total 144.3
 Recycled Water Acreage (ac): 654
 Reservoir Volume (AF): 16
 Reservoir Depth (ft): 41
 Reservoir Surface Area (ac):

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	Monthly Precipitation (AF)	Monthly Percolation DWTP (AF)	Monthly Evaporation (AF)	Monthly Percolation IWTP (AF)	Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	2.97	89.08	273	20.2	-194.27	-1.6	-19.10	0.0	79	139
December	3.04	94.29	289	26.4	-35.20	-2.1	-103.79	0.0	175	314
January	3.04	94.29	289	33.2	-35.20	-2.9	-101.37	0.0	183	497
February	3.04	85.17	261	26.9	-31.80	-5.3	-93.94	0.0	157	654
March	3.04	94.29	289	23.8	-199.80	-8.9	-143.00	0.0	-39	616
April	3.04	91.25	280	14.0	-194.27	-10.7	-142.49	-32.8	-86	530
May	2.97	92.05	283	8.3	-200.75	-11.9	-151.48	-61.9	-135	394
June	2.90	86.91	267	2.4	-300.16	-11.0	-10.96	-80.3	-133	261
July	2.90	89.80	276	3.3	-310.16	-6.2	-12.17	-86.8	-136	125
August	2.90	89.80	276	3.3	-310.16	-2.8	-11.03	-79.9	-125	0
September	2.90	86.91	267	12.7	-194.27	-0.1	-25.78	-36.3	23	23
October	2.90	89.80	276	10.2	-200.75	-1.2	-25.29	-20.8	38	61
TOTAL		1,084	3,326	185	-2,207	-65	-840	-399	0	

**Water Balance-Limited DWTP Percolation+IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2009 w/Sunnyslope**

AAF in 2009 (MGD): 3.05 **Irrigation Type:**
Recycled Water Acreage (ac): 80 **Pasture** 80 **Iurf** 90 **Total** 169.5
Reservoir Volume (AF): 684
Reservoir Depth (ft): 16
Reservoir Surface Area (ac): 43

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	Monthly Precipitation (+) (AF)	Monthly Percolation DWTP (AF) (-)	Monthly Evaporation (AF) (-)	Monthly Percolation IWTP (AF) (-)	Monthly Irrigation (AF) (-)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	3.05	91.48	281	20.2	-194.27	-1.7	-19.10	0.0	86	147
December	3.12	96.84	297	26.4	-35.20	-2.2	-103.79	0.0	182	329
January	3.12	96.84	297	33.2	-35.20	-3.0	-101.37	0.0	191	520
February	3.12	87.47	268	26.9	-31.80	-5.6	-93.94	0.0	164	684
March	3.12	96.84	297	23.8	-199.80	-9.4	-143.00	0.0	-31	653
April	3.12	93.72	288	14.0	-194.27	-11.2	-142.49	-39.3	-86	568
May	3.05	94.53	290	8.3	-200.75	-12.4	-151.48	-74.3	-140	427
June	2.98	89.25	274	2.4	-300.16	-11.5	-10.96	-97.7	-144	283
July	2.98	92.23	283	3.3	-310.16	-6.5	-12.17	-105.5	-148	135
August	2.98	92.23	283	3.3	-310.16	-3.0	-11.03	-97.1	-135	0
September	2.98	89.25	274	12.7	-194.27	-0.2	-25.78	-45.1	21	21
October	2.98	92.23	283	10.2	-200.75	-1.2	-25.29	-26.2	40	61
TOTAL		1,113	3,416	185	-2,207	-68	-840	-485	0	0

**Water Balance-Limited DWTP Percolation+IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2010 w/Sunnyslope**

Irrigation Type:
Recycled Water Acreage (ac): 108
Reservoir Volume (AF): 718
Reservoir Depth (ft): 16
Reservoir Surface Area (ac): 45

Pasture 108
Turf 90
Total 198

AAF in 2010 (MGD): 3.14

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	3.14	94.20	289	20.2	-194.27	-1.7	-19.10	0.0	94	156
December	3.22	99.71	306	26.4	-35.20	-2.4	-103.79	0.0	191	347
January	3.22	99.71	306	33.2	-35.20	-3.2	-101.37	0.0	199	546
February	3.22	90.06	276	26.9	-31.80	-5.8	-93.94	0.0	172	718
March	3.22	99.71	306	23.8	-199.80	-9.8	-143.00	0.0	-23	695
April	3.22	96.50	296	14.0	-194.27	-11.8	-142.49	-46.7	-85	610
May	3.14	97.34	299	8.3	-200.75	-13.0	-151.48	-88.4	-147	464
June	3.06	91.90	282	2.4	-300.16	-12.1	-10.96	-117.5	-156	307
July	3.06	94.96	291	3.3	-310.16	-6.8	-12.17	-126.6	-161	146
August	3.06	94.96	291	3.3	-310.16	-3.1	-11.03	-116.6	-146	0
September	3.06	91.90	282	12.7	-194.27	-0.2	-25.78	-55.1	20	20
October	3.06	94.96	291	10.2	-200.75	-1.3	-25.29	-32.4	42	61
TOTAL		1,146	3,517	185	-2,207	-71	-840	-583	0	

**Water Balance-Limited DWTP Percolation+IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2011 w/Sunnyslope**

AAF in 2011 (MGD): 3.22 Irrigation Type: Pasture Turf Total
 Recycled Water Acreage (ac): 133 Reservoir Water Acreage (ac): 747 90 223
 Reservoir Volume (AF): 747 Reservoir Depth (ft): 16
 Reservoir Surface Area (ac): 47

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	3.22	96.58	296	20.2	-194.27	-1.8	-19.10	0.0	101	163
December	3.30	102.23	314	26.4	-35.20	-2.5	-103.79	0.0	199	362
January	3.30	102.23	314	33.2	-35.20	-3.3	-101.37	0.0	207	569
February	3.30	92.34	283	26.9	-31.80	-6.1	-93.94	0.0	179	747
March	3.30	102.23	314	23.8	-199.80	-10.2	-143.00	0.0	-15	732
April	3.30	98.93	304	14.0	-194.27	-12.3	-142.49	-53.1	-84	647
May	3.22	99.80	306	8.3	-200.75	-13.5	-151.48	-100.6	-152	496
June	3.14	94.22	289	2.4	-300.16	-12.6	-10.96	-134.7	-167	329
July	3.14	97.36	299	3.3	-310.16	-7.1	-12.17	-145.1	-172	156
August	3.14	97.36	299	3.3	-310.16	-3.2	-11.03	-133.6	-156	0
September	3.14	94.22	289	12.7	-194.27	-0.2	-25.78	-63.8	18	18
October	3.14	97.36	299	10.2	-200.75	-1.3	-25.29	-37.8	44	62
TOTAL		1,175	3,606	185	-2,207	-74	-840	-669	0	

**Water Balance-Limited DWTP Percolation+IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2012 w/Sunnyslope**

AAF in 2012 (MGD): 3.31
 Irrigation Type: Pasture 162 Turf 90 Total 252
 Recycled Water Acreage (ac): 781
 Reservoir Volume (AF): 16
 Reservoir Depth (ft): 49
 Reservoir Surface Area (ac): 49

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	3.31	99.29	305	20.2	-194.27	-1.9	-19.10	0.0	110	171
December	3.39	105.10	323	26.4	-35.20	-2.6	-103.79	0.0	207	379
January	3.39	105.10	323	33.2	-35.20	-3.5	-101.37	0.0	216	594
February	3.39	94.93	291	26.9	-31.80	-6.3	-93.94	0.0	186	781
March	3.39	105.10	323	23.8	-199.80	-10.7	-143.00	0.0	-7	774
April	3.39	101.71	312	14.0	-194.27	-12.8	-142.49	-60.6	-84	690
May	3.31	102.60	315	8.3	-200.75	-14.2	-151.48	-114.9	-158	532
June	3.23	96.87	297	2.4	-300.16	-13.2	-10.96	-154.8	-179	352
July	3.23	100.10	307	3.3	-310.16	-7.4	-12.17	-166.7	-186	166
August	3.23	100.10	307	3.3	-310.16	-3.4	-11.03	-153.5	-168	0
September	3.23	96.87	297	12.7	-194.27	-0.2	-25.78	-74.0	16	16
October	3.23	100.10	307	10.2	-200.75	-1.4	-25.29	-44.1	46	62
TOTAL		1,208	3,707	185	-2,207	-77	-840	-768	-1	

**Water Balance-Limited DWTP Percolation+IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2013 w/Sunnyslope**

AAF in 2013 (MGD): 3.41
 Irrigation Type: Pasture 193 Turf 90 Total 283
 Recycled Water Acreage (ac):
 Reservoir Volume (AF): 820
 Reservoir Depth (ft): 16
 Reservoir Surface Area (ac): 51

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	3.41	102.29	314	20.2	-194.27	-2.0	-19.10	0.0	119	181
December	3.49	108.27	332	26.4	-35.20	-2.7	-103.79	0.0	217	398
January	3.49	108.27	332	33.2	-35.20	-3.7	-101.37	0.0	225	623
February	3.49	97.80	300	26.9	-31.80	-6.7	-93.94	0.0	195	818
March	3.49	108.27	332	23.8	-199.80	-11.2	-143.00	0.0	2	820
April	3.49	104.78	322	14.0	-194.27	-13.5	-142.49	-68.6	-83	737
May	3.41	105.70	324	8.3	-200.75	-14.9	-151.48	-130.1	-165	572
June	3.33	99.79	306	2.4	-300.16	-13.8	-10.96	-176.2	-193	380
July	3.33	103.12	316	3.3	-310.16	-7.8	-12.17	-189.6	-200	180
August	3.33	103.12	316	3.3	-310.16	-3.6	-11.03	-174.6	-180	0
September	3.33	99.79	306	12.7	-194.27	-0.2	-25.78	-84.8	14	14
October	3.33	103.12	316	10.2	-200.75	-1.5	-25.29	-50.8	48	62
TOTAL		1,244	3,819	185	-2,207	-81	-840	-875	0	

**Water Balance-Limited DWTP Percolation+IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2014 w/Sunnyslope**

AAF in 2014 (MGD): 3.51
 Irrigation Type: Pasture 225 Turf 90 Total 315
 Recycled Water Acreage (ac): 866
 Reservoir Volume (AF): 16
 Reservoir Depth (ft): 54
 Reservoir Surface Area (ac): 54

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	Monthly Precipitation (+) (AF)	Monthly Percolation DWTP (AF) (-)	Monthly Evaporation (-) (AF)	Monthly Percolation IWTP (AF) (-)	Monthly Irrigation (-) (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	3.51	105.28	323	20.2	-194.27	-2.1	-19.10	0.0	128	190
December	3.59	111.44	342	26.4	-35.20	-2.8	-103.79	0.0	227	417
January	3.59	111.44	342	33.2	-35.20	-3.9	-101.37	0.0	235	652
February	3.59	100.66	309	26.9	-31.80	-7.0	-93.94	0.0	203	855
March	3.59	111.44	342	23.8	-199.80	-11.8	-143.00	0.0	11	866
April	3.59	107.85	331	14.0	-194.27	-14.2	-142.49	-76.9	-83	783
May	3.51	108.79	334	8.3	-200.75	-15.7	-151.48	-145.9	-172	611
June	3.42	102.71	315	2.4	-300.16	-14.6	-10.96	-198.4	-206	405
July	3.42	106.14	326	3.3	-310.16	-8.2	-12.17	-213.4	-215	190
August	3.42	106.14	326	3.3	-310.16	-3.8	-11.03	-196.5	-192	0
September	3.42	102.71	315	12.7	-194.27	-0.2	-25.78	-96.0	12	12
October	3.42	106.14	326	10.2	-200.75	-1.6	-25.29	-57.8	51	62
TOTAL		1,281	3,931	185	-2,207	-86	-840	-985	-2	

**Water Balance-Limited DWTP Percolation+IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2015 w/Sunnyslope**

AAF in 2015 (MGD): 3.60 Irrigation Type: Pasture 169 Turf 280 Total 449
 Recycled Water Acreage (ac): 999
 Reservoir Volume (AF): 16
 Reservoir Depth (ft): 62
 Reservoir Surface Area (ac): 5

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	Monthly Precipitation (AF)	Monthly Percolation DWTP (AF)	Monthly Evaporation (AF)	Monthly Percolation IWTP (AF)	Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	3.60	107.99	331	20.2	-194.27	-2.4	-15.28	0.0	140	205
December	3.69	114.32	351	26.4	-35.20	-3.3	-83.03	0.0	256	460
January	3.69	114.32	351	33.2	-35.20	-4.4	-81.09	0.0	263	724
February	3.69	103.25	317	26.9	-31.80	-8.1	-75.15	0.0	229	953
March	3.69	114.32	351	23.8	-199.80	-13.7	-114.40	0.0	47	999
April	3.69	110.63	340	14.0	-194.27	-16.4	-113.99	-102.0	-73	926
May	3.60	111.59	342	8.3	-200.75	-18.1	-121.19	-192.8	-182	744
June	3.51	105.36	323	2.4	-300.16	-16.9	-8.77	-249.9	-250	494
July	3.51	108.87	334	3.3	-310.16	-9.5	-9.73	-270.0	-262	232
August	3.51	108.87	334	3.3	-310.16	-4.3	-8.82	-248.5	-234	0
September	3.51	105.36	323	12.7	-194.27	-0.2	-20.62	-112.8	8	8
October	3.51	108.87	334	10.2	-200.75	-1.8	-20.23	-64.6	57	65
TOTAL		1,314	4,032	185	-2,207	-99	-672	-1,241	-2	-2

**Water Balance-Limited DWTP Percolation+IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2016 w/Sunnyslope**

Irrigation Type: Turf Crops Total
 Recycled Water Acreage (ac): 384 1180 1564
 Reservoir Volume (AF): 1328
 Reservoir Depth (ft): 16
 Reservoir Surface Area (ac): 83

AAF in 2016 (MGD): 3.71

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	3.71	111.30	342	25.7	-177.46	-3.2	-2.80	-39.3	144	185
December	3.80	117.81	362	33.5	-32.16	-4.4	-15.20	0.0	343	529
January	3.80	117.81	362	42.2	-32.16	-5.9	-14.84	0.0	351	880
February	3.80	106.41	327	34.2	-29.04	-10.8	-13.75	0.0	307	1187
March	3.80	117.81	362	30.3	-182.51	-18.2	-20.94	-29.5	141	1328
April	3.80	114.01	350	17.8	-177.46	-21.8	-20.86	-172.4	-25	1303
May	3.71	115.01	353	10.6	-183.38	-24.1	-22.18	-351.0	-217	1086
June	3.62	108.58	333	3.1	-274.18	-22.4	-1.61	-392.8	-355	731
July	3.62	112.20	344	4.1	-283.32	-12.6	-1.78	-408.8	-358	373
August	3.62	112.20	344	4.1	-283.32	-5.8	-1.61	-369.2	-311	61
September	3.62	108.58	333	16.2	-177.46	-0.3	-3.78	-230.9	-63	0
October	3.62	112.20	344	12.9	-183.38	-2.4	-3.70	-126.9	41	41
TOTAL		1,354	4,155	235	-2,016	-132	-123	-2,121	-2	

**Water Balance-Limited DWTP Percolation with No IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2017 w/Sunnyslope**

AAF in 2017 (MGD): 3.81 **Irrigation Type:**
Recycled Water Acreage (ac): 384 **Turf** 2277 **Total** 2661
Reservoir Volume (AF): 1608
Reservoir Depth (ft): 16
Reservoir Surface Area (ac): 101

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	Monthly Precipitation (AF)	Monthly Percolation DWTP (AF)	Monthly Evaporation (AF)	Monthly Percolation IWTP (AF)	Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
				(+)	(-)	(-)	(-)	(-)		
November	3.81	114.29	351	29.9	-99.56	-3.9	0.00	-75.9	201	255
December	3.90	120.98	371	38.9	-18.04	-5.3	0.00	0.0	387	642
January	3.90	120.98	371	49.1	-18.04	-7.2	0.00	0.0	395	1037
February	3.90	109.27	335	39.8	-16.29	-13.1	0.00	0.0	346	1383
March	3.90	120.98	371	35.2	-102.39	-22.0	0.00	-56.9	225	1608
April	3.90	117.08	359	20.7	-99.56	-26.4	0.00	-258.4	-4	1604
May	3.81	118.10	362	12.3	-102.88	-29.1	0.00	-537.5	-295	1309
June	3.72	111.50	342	3.6	-153.82	-27.1	0.00	-588.5	-424	885
July	3.72	115.22	354	4.8	-158.95	-15.3	0.00	-604.5	-420	465
August	3.72	115.22	354	4.8	-158.95	-7.0	0.00	-542.9	-350	115
September	3.72	111.50	342	18.8	-99.56	-0.4	0.00	-377.2	-116	0
October	3.72	115.22	354	15.0	-102.88	-2.9	0.00	-209.2	54	54
TOTAL		1,390	4,267	273	-1,131	-160	0	-3,251	-1	

**Water Balance-Limited DWTP Percolation with No IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2018 w/Sunnyslope**

AAF in 2018 (MGD): 3.92
 Irrigation Type:
 Recycled Water Acreage (ac): 384
 Reservoir Volume (AF): 1716
 Reservoir Depth (ft): 16
 Reservoir Surface Area (ac): 107

Iurf 384
Crops 2683
Total 3067

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	3.92	117.59	361	31.5	-73.94	-4.2	0.00	-89.4	225	285
December	4.02	124.48	382	41.0	-13.40	-5.6	0.00	0.0	404	689
January	4.02	124.48	382	51.7	-13.40	-7.6	0.00	0.0	413	1102
February	4.02	112.43	345	41.9	-12.10	-13.9	0.00	0.0	361	1463
March	4.02	124.48	382	37.1	-76.04	-23.5	0.00	-67.1	253	1716
April	4.02	120.46	370	21.8	-73.94	-28.2	0.00	-290.2	-1	1715
May	3.92	121.51	373	13.0	-76.41	-31.1	0.00	-606.5	-328	1387
June	3.82	114.73	352	3.7	-114.24	-29.0	0.00	-660.9	-448	939
July	3.82	118.55	364	5.1	-118.05	-16.3	0.00	-676.9	-442	496
August	3.82	118.55	364	5.1	-118.05	-7.4	0.00	-607.2	-364	132
September	3.82	114.73	352	19.8	-73.94	-0.4	0.00	-431.3	-134	0
October	3.82	118.55	364	15.8	-76.41	-3.1	0.00	-239.6	61	61
TOTAL		1,431	4,390	288	-840	-170	0	-3,669	-1	

**Water Balance-Limited DWTP Percolation with No IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2019 w/Sunnyslope**

AAF in 2019 (MGD): 4.02 **Irrigation Type:**
Recycled Water Acreage (ac): 384 **Turf** 384 **Crops** 2793 **Total** 3177
Reservoir Volume (AF): 1761
Reservoir Depth (ft): 16
Reservoir Surface Area (ac): 110

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	4.02	120.59	370	32.1	-73.94	-4.3	0.00	-93.1	231	293
December	4.12	127.65	392	41.9	-13.40	-5.8	0.00	0.0	415	707
January	4.12	127.65	392	52.8	-13.40	-7.8	0.00	0.0	423	1131
February	4.12	115.29	354	42.8	-12.10	-14.3	0.00	0.0	370	1501
March	4.12	127.65	392	37.9	-76.04	-24.1	0.00	-69.8	260	1761
April	4.12	123.53	379	22.3	-73.94	-28.9	0.00	-298.8	0	1760
May	4.02	124.61	382	13.3	-76.41	-31.9	0.00	-625.2	-338	1422
June	3.92	117.65	361	3.8	-114.24	-29.7	0.00	-680.5	-460	963
July	3.92	121.57	373	5.2	-118.05	-16.7	0.00	-696.5	-453	510
August	3.92	121.57	373	5.2	-118.05	-7.6	0.00	-624.6	-372	138
September	3.92	117.65	361	20.2	-73.94	-0.4	0.00	-446.0	-139	0
October	3.92	121.57	373	16.2	-76.41	-3.2	0.00	-247.9	62	62
TOTAL		1,467	4,502	294	-840	-175	0	-3,782	-1	

**Water Balance-Limited DWTP Percolation with No IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2020 w/Sunnyslope**

AAF in 2020 (MGD): 4.14 **Irrigation Type:**
Recycled Water Acreage (ac): 384 **Turf** 384 **Crops** 2926 **Total** 3310
Reservoir Volume (AF): 1815
Reservoir Depth (ft): 16
Reservoir Surface Area (ac): 113

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	4.14	124.20	381	32.9	-73.94	-4.4	0.00	-97.5	238	302
December	4.24	131.47	403	43.0	-13.40	-6.0	0.00	0.0	427	729
January	4.24	131.47	403	54.1	-13.40	-8.1	0.00	0.0	436	1165
February	4.24	118.75	364	43.9	-12.10	-14.7	0.00	0.0	381	1546
March	4.24	131.47	403	38.8	-76.04	-24.8	0.00	-73.2	268	1815
April	4.24	127.23	390	22.8	-73.94	-29.8	0.00	-309.2	0	1815
May	4.14	128.34	394	13.6	-76.41	-32.9	0.00	-647.8	-350	1465
June	4.04	121.17	372	3.9	-114.24	-30.6	0.00	-704.2	-473	992
July	4.04	125.21	384	5.3	-118.05	-17.2	0.00	-720.2	-466	526
August	4.04	125.21	384	5.3	-118.05	-7.9	0.00	-645.7	-382	144
September	4.04	121.17	372	20.7	-73.94	-0.4	0.00	-463.7	-145	0
October	4.04	125.21	384	16.6	-76.41	-3.3	0.00	-257.9	63	63
TOTAL		1,511	4,637	301	-840	-180	0	-3,919	-1	-1

**Water Balance-Limited DWTP Percolation with No IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2021 w/Sunnyslope**

AAF in 2021 (MGD): 4.26
 Irrigation Type:
 Recycled Water Acreage (ac): 384
 Reservoir Volume (AF): 1869
 Reservoir Depth (ft): 16
 Reservoir Surface Area (ac): 117

Turf
384

Crops
3057

Total
3441

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	4.26	127.78	392	33.8	-73.94	-4.5	0.00	-101.9	246	310
December	4.36	135.26	415	44.0	-13.40	-6.1	0.00	0.0	440	750
January	4.36	135.26	415	55.5	-13.40	-8.3	0.00	0.0	449	1199
February	4.36	122.17	375	45.0	-12.10	-15.2	0.00	0.0	393	1592
March	4.36	135.26	415	39.8	-76.04	-25.6	0.00	-76.4	277	1868
April	4.36	130.90	402	23.4	-73.94	-30.7	0.00	-319.5	1	1869
May	4.26	132.04	405	13.9	-76.41	-33.9	0.00	-670.1	-361	1508
June	4.16	124.66	383	4.0	-114.24	-31.5	0.00	-727.6	-487	1022
July	4.16	128.82	395	5.4	-118.05	-17.7	0.00	-743.6	-479	543
August	4.16	128.82	395	5.4	-118.05	-8.1	0.00	-666.4	-392	151
September	4.16	124.66	383	21.2	-73.94	-0.4	0.00	-481.2	-152	0
October	4.16	128.82	395	17.0	-76.41	-3.4	0.00	-267.7	65	65
TOTAL		1,554	4,771	308	-840	-185	0	-4,054	-1	

**Water Balance-Limited DWTP Percolation with No IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2022 w/Sunnyslope**

Irrigation Type:
Recycled Water Acreage (ac): 384
Reservoir Volume (AF): 1919
Reservoir Depth (ft): 16
Reservoir Surface Area (ac): 120

AAF in 2022 (MGD): 4.37
Recycled Water Acreage (ac): 384
Reservoir Volume (AF): 1919
Reservoir Depth (ft): 16
Reservoir Surface Area (ac): 120

Turf 384
Crops 3179
Total 3563

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	4.37	131.08	402	34.5	-73.94	-4.6	0.00	-106.0	252	319
December	4.48	138.76	426	45.0	-13.40	-6.3	0.00	0.0	451	770
January	4.48	138.76	426	56.7	-13.40	-8.5	0.00	0.0	461	1230
February	4.48	125.33	385	46.0	-12.10	-15.6	0.00	0.0	403	1633
March	4.48	138.76	426	40.6	-76.04	-26.2	0.00	-79.5	285	1918
April	4.48	134.28	412	23.9	-73.94	-31.5	0.00	-329.0	2	1919
May	4.37	135.45	416	14.2	-76.41	-34.8	0.00	-690.8	-372	1547
June	4.26	127.89	392	4.1	-114.24	-32.4	0.00	-749.3	-499	1048
July	4.26	132.15	406	5.5	-118.05	-18.2	0.00	-765.3	-490	558
August	4.26	132.15	406	5.5	-118.05	-8.3	0.00	-685.7	-401	157
September	4.26	127.89	392	21.7	-73.94	-0.4	0.00	-497.5	-158	0
October	4.26	132.15	406	17.4	-76.41	-3.4	0.00	-276.8	66	66
TOTAL		1,595	4,894	315	-840	-190	0	-4,180	-1	

**Water Balance-Limited DWTP Percolation with No IWTP Percolation
City of Hollister Wastewater Treatment Plant - 2023 w/Sunnyslope**

AAF in 2023 (MGD): 4.50
 Irrigation Type: Turf 384 Crops 3322 Total 3706
 Recycled Water Acreage (ac): 1979
 Reservoir Volume (AF): 16
 Reservoir Depth (ft): 124
 Reservoir Surface Area (ac): 5

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	4.50	135.00	414	35.4	-73.94	-4.8	0.00	-110.7	260	328
December	4.61	142.90	439	46.2	-13.40	-6.5	0.00	0.0	465	793
January	4.61	142.90	439	58.2	-13.40	-8.8	0.00	0.0	475	1268
February	4.61	129.07	396	47.1	-12.10	-16.1	0.00	0.0	415	1683
March	4.61	142.90	439	41.7	-76.04	-27.1	0.00	-83.1	294	1977
April	4.61	138.29	424	24.5	-73.94	-32.5	0.00	-340.2	2	1979
May	4.50	139.50	428	14.6	-76.41	-35.9	0.00	-715.1	-385	1594
June	4.39	131.71	404	4.2	-114.24	-33.4	0.00	-774.8	-514	1080
July	4.39	136.10	418	5.7	-118.05	-18.8	0.00	-790.8	-504	576
August	4.39	136.10	418	5.7	-118.05	-8.6	0.00	-708.4	-412	165
September	4.39	131.71	404	22.3	-73.94	-0.4	0.00	-516.5	-164	0
October	4.39	136.10	418	17.8	-76.41	-3.6	0.00	-287.6	68	68
TOTAL		1,642	5,040	323	-840	-196	0	-4,327	0	0

**Water Balance-2.72 MGD DWTP Percolation + IWTP Percolation (Airport + San Juan Oaks Irrigation): Current System Capacity
City of Hollister Wastewater Treatment Plant - w/Sunnyslope**

System Capacity AAF (MGD): 3.25 Irrigation Type: Pasture 135 Turf 90 Total 225
 Recycled Water Acreage (ac): 743
 Reservoir Volume (AF): 16
 Reservoir Depth (ft): 46
 Reservoir Surface Area (ac): 46

Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	(+) Monthly Precipitation (AF)	(-) Monthly Percolation DWTP (AF)	(-) Monthly Evaporation (AF)	(-) Monthly Percolation IWTP (AF)	(-) Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	3.25	97.50	299	17.0	-194.27	-1.8	-19.10	0.0	101	164
December	3.33	103.20	317	22.1	-35.20	-2.4	-103.79	0.0	197	361
January	3.33	103.20	317	27.9	-35.20	-3.3	-101.37	0.0	205	566
February	3.33	93.22	286	22.6	-31.80	-6.0	-93.94	0.0	177	743
March	3.33	103.20	317	20.0	-199.80	-10.2	-143.00	0.0	-16	727
April	3.33	99.87	307	11.8	-194.27	-12.2	-142.49	-53.5	-84	642
May	3.25	100.75	309	7.0	-200.75	-13.5	-151.48	-101.4	-151	492
June	3.17	95.12	292	2.0	-300.16	-12.5	-10.96	-135.8	-166	326
July	3.17	98.29	302	2.7	-310.16	-7.1	-12.17	-146.3	-171	155
August	3.17	98.29	302	2.7	-310.16	-3.2	-11.03	-134.7	-155	0
September	3.17	95.12	292	10.7	-194.27	-0.2	-25.78	-64.4	18	18
October	3.17	98.29	302	8.5	-200.75	-1.3	-25.29	-38.2	45	63
TOTAL		1,186	3,640	155	-2,207	-74	-840	-674	0	

**Water Balance-2.72 MGD DWTP Percolation + IWTP Percolation: System Capacity Required for 4.0 MGD
City of Hollister Wastewater Treatment Plant - w/Sunnyslope**

Irrigation Type: Pasture Iurf Total
 Recycled Water Acreage (ac): 382 92 474
 Reservoir Volume (AF): 1106
 Reservoir Depth (ft): 16
 Reservoir Surface Area (ac): 69

AAF (MGD): 4.00
 Seasonal Inflow and Infiltration (%): 5

Month	Average Daily Flow (MGD)	Monthly Wastewater Flow (MG)	Monthly Wastewater Flow (AF)	Monthly Precipitation (AF)	Monthly Percolation DWTP (AF)	Monthly Evaporation (AF)	Monthly Percolation IWTP (AF)	Monthly Irrigation (AF)	Surplus Water (AF/mo)	Cumulative Storage Requirement (AF)
November	4.00	119.99	368	22.4	-194.27	-2.7	-19.10	0.0	175	239
December	4.10	127.02	390	29.2	-35.20	-3.6	-103.79	0.0	276	515
January	4.10	127.02	390	36.8	-35.20	-4.9	-101.37	0.0	285	800
February	4.10	114.73	352	29.8	-31.80	-9.0	-93.94	0.0	247	1048
March	4.10	127.02	390	26.4	-199.80	-15.1	-143.00	0.0	58	1106
April	4.10	122.92	377	15.5	-194.27	-18.1	-142.49	-117.9	-80	1026
May	4.00	123.99	381	9.2	-200.75	-20.0	-151.48	-223.9	-206	820
June	3.90	117.07	359	2.7	-300.16	-18.7	-10.96	-307.9	-276	544
July	3.90	120.97	371	3.6	-310.16	-10.5	-12.17	-330.9	-289	255
August	3.90	120.97	371	3.6	-310.16	-4.8	-11.03	-304.7	-256	0
September	3.90	117.07	359	14.1	-194.27	-0.3	-25.78	-151.3	2	2
October	3.90	120.97	371	11.3	-200.75	-2.0	-25.29	-92.0	63	64
TOTAL		1,460	4,480	205	-2,207	-110	-840	-1,529	-1	