
APPENDIX L1: TOP WATER SUPPLY EVALUATION



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	Water Demand			Wastewater Generation	Return Ratio
	Potable Water (AFY)	Recycled Water (AFY)	Total Water (AFY)	Total Wastewater (MGD)	Percent of total water demand returned to sewer system
Approved TOP 2050	45,318	29,410	74,728	27.77	69%
Policy Plan Amendment	46,634	29,478	76,112	28.97	70%
Change	1,317	68	1,384	1.20	

Proposed Land Use	Proposed TOP Land Use Description	BUILDOUT NUMBERS			Potable Water Demand						Recycled Water Demand					
		TOP 2050			TOP 2050		PPA		TOP 2050		PPA		TOP 2050		PPA	
		DU (2050)	DU (2050)	Change DU (2050)	GPD	units	GPD	AFY	GPD	AFY	GPD	units	GPD	AFY	GPD	AFY
RR	Rural	1,057.4	1,057.4	-	865	gpd/DU	914,635	1,024	914,635	1,024						
LDR	Low Density	34,847.9	32,752.8	(2,095.0)	340	gpd/DU	11,848,277	13,270	11,135,967	12,472						
LMDP	Low Medium Density	7,518.4	7,864.9	346.5	270	gpd/DU	2,029,976	2,274	2,123,522	2,378						
MDR	Medium Density	47,205.5	47,010.3	(195.3)	195	gpd/DU	9,205,082	10,310	9,167,005	10,267						
HDR	High Density	5,088.5	16,902.5	11,813.9	155	gpd/DU	788,725	883	2,619,884	2,934						
Residential		Acres	Acres	Acres	Approved Project			Proposed Project			Approved Project		Proposed Project			
RR	Rural	528.7	528.7	-						n/a	gpd/ac	-	-	-	-	
LDR	Low Density	6,273.9	5,809.6	(464.3)						800	gpd/ac	5,019,132	5,621	4,647,717	5,205	
LMDP	Low Medium Density	888.7	929.5	40.8						800	gpd/ac	710,955	796	743,564	833	
MDR	Medium Density	2,299.1	2,292.3	(6.8)						950	gpd/ac	2,184,154	2,446	2,177,670	2,439	
HDR	High Density	198.0	535.7	337.6						950	gpd/ac	188,103	211	508,869	570	
Mixed Use		Acres	Acres	Acres												
MU	All MU Areas see mixed-use calculation	1,751.9	1,672.3	(79.6)	See Mixed-Use Calculations		6,676,173	7,477	6,347,092	7,109	See Mixed-Use Calculations	1,878,624	2,104	1,817,719	2,036	
Retail / Service																
NC	Neighborhood Commercial	245.8	237.3	(8.6)	1600	gpd/ac	393,334	441	379,617	425	1200	gpd/ac	295,000	330	284,712	319
GC	General Commercial	385.2	356.7	(28.5)	1600	gpd/ac	616,271	690	570,714	639	1200	gpd/ac	462,203	518	428,035	479
OC	Office / Commercial	309.2	309.2	-	1600	gpd/ac	494,728	554	494,728	554	1200	gpd/ac	371,046	416	371,046	416
HOS	Hospitality	194.2	167.0	(27.2)	4000	gpd/ac	776,766	870	667,834	748	1400	gpd/ac	271,868	304	233,742	262
Employment																
BP	Business Park (not including EBPSP)	1,056.3	1,197.5	141.2	1800	gpd/ac	1,901,268	2,129	2,155,503	2,414	1200	gpd/ac	1,267,512	1,420	1,437,002	1,609
BP - EBPSP	Business Park (EBPSP only)	-	138.0	138.0	1800	gpd/ac	-	-	248,418	278	1200	gpd/ac	-	-	165,612	185
BP-o	Business Park Overlay Areas	89.6	89.6	-	1800	gpd/ac	161,273	181	161,273	181	1200	gpd/ac	107,515	120	107,515	120
IND	Industrial	7,591.3	7,606.2	14.8	450	gpd/ac	3,416,101	3,826	3,422,770	3,834	700	gpd/ac	5,313,935	5,952	5,324,309	5,963
IND-o	Industrial Overlay Areas	60.2	60.2	-	450	gpd/ac	27,071	30	27,071	30	700	gpd/ac	42,110	47	42,110	47
Other																
OS-NR	Open SpaceNon-Recreation Open Space Parkland (not including EBPSP)	1,200.2	1,200.2	(0.0)	100	gpd/ac	120,022	134	120,021	134	2500	gpd/ac	3,000,544	3,361	3,000,529	3,361
OS-R	Open Space Parkland (EBPSP only)	1,041.3	961.8	(79.4)	100	gpd/ac	104,127	117	96,182	108	2500	gpd/ac	2,603,175	2,916	2,404,551	2,693
OS-R-EBPSP	Open Space Parkland (EBPSP only)	-	36.4	36.4	100	gpd/ac	-	-	3,644	4	2500	gpd/ac	-	-	91,100	102
OS-W	Open Space - Water	17.3	17.3	-	100	gpd/ac	1,731	2	1,731	2	2500	gpd/ac	43,284	48	43,284	48
PF	Public Facility	89.7	89.7	-	500	gpd/ac	44,831	50	44,831	50	1300	gpd/ac	116,560	131	116,560	131
PS	Public School	603.4	603.7	0.4	500	gpd/ac	301,677	338	301,853	338	2300	gpd/ac	1,387,714	1,554	1,388,523	1,555
ARPT	Ontario International Airport	1,422.7	1,407.9	(14.8)	450	gpd/ac	640,202	717	633,533	710	700	gpd/ac	995,869	1,115	985,495	1,104
LF	Landfill	136.6	136.6	-	0	gpd/ac	-	-	-	-	0	gpd/ac	-	-	-	-
RAIL	Rail road	249.6	249.6	-	0	gpd/ac	-	-	-	-	0	gpd/ac	-	-	-	-
ROW	Roadways	5,389.3	5,389.3	0.0	0	gpd/ac	-	-	-	-	0	gpd/ac	-	-	-	-
Total		32,022	32,022				40,462,269	45,318	41,637,826	46,634			26,259,305	29,410	26,319,664	29,478
Increase due to PPA									1,175,558	1,317					60,359	68

Notes

- HOS, hospitality. Assumed 4,000 gpd/acre based on hospitality 2022 GPD and acreage from City of Ontario 2024 Water and Sewer Factor Tech Memo.
- Mixed-Use land uses calculated on separate tab, based on the acreage and/or dwelling units and water demand factors for each land use type. Total numbers re-entered here.

Sources:

- Water Demand Factors from City of Ontario, 2024 Water Demand and Sewer Flow Factors Technical Memorandum

Policy Plan Amendment

Water Demand for Mixed-Use Land Uses

Proposed Land Use	Proposed TOP Land Use Description	BUILDOUT NUMBERS			BUILDOUT NUMBERS			Acreage Proportion					Potable Water Demand					Recycled Water Demand																
		TOP 2050			PPA			Change			TOP 2050			PPA			Change			Land-Use Percentage					TOP 2050					PPA				
		Acres	Acres	Acres	DU	DU	DU	Equivalent Res. LU category	Res	Com	Office	Hosp	Ind	Res Factor GPD	units	GPD	AFY	GPD	AFY	Res Factor GPD	units	GPD	AFY	GPD	AFY									
MU-DT	Downtown	131.5	131.5	-	2,762	2,783	21	HDR	0.60	0.20	0.20	0.00	0.00	155	gpd/du	512,273	574	515,530	577	950	gpd/ac	143,357	161	143,357	161									
MU-OC	Ontario Center (not including piemonte area)	186.4	186.4	-	3,729	3,729	-	HDR	0.50	0.30	0.20	0.00	0.00	155	gpd/du	727,064	814	727,064	814	950	gpd/ac	207,866	233	207,866	233									
MU-AR	Ontario Center (piemonte area only)	189.2	189.2	-	5,076	5,076	-	HDR	0.75	0.15	0.10	0.00	0.00	155	gpd/du	854,438	957	854,438	957	950	gpd/ac	174,694	196	174,694	196									
MU-OM	Ontario Mills	249.4	249.4	-	3,990	3,990	-	HDR	0.40	0.55	0.05	0.00	0.00	155	gpd/du	857,862	961	857,862	961	950	gpd/ac	276,810	310	276,810	310									
MU-GU	Guasti	86.3	86.3	-	777	777	-	HDR	0.30	0.15	0.30	0.25	0.00	155	gpd/du	268,944	301	268,944	301	950	gpd/ac	106,628	119	106,628	119									
MU-MM	Multimodal	72.6	72.6	-	653	653	-	HDR	0.15	0.15	0.45	0.25	0.00	155	gpd/du	243,439	273	243,439	273	950	gpd/ac	94,510	106	94,510	106									
MU-GP	Grand Park	299.7	187.5	(112.1)	7,342	4,595	(2,748)	HDR	0.70	0.20	0.10	0.00	0.00	155	gpd/du	1,281,891	1,436	802,176	898	950	gpd/ac	313,168	351	195,973	219									
MU-BC	Eucalyptus / Chino Airport	100.9	-	(100.9)	1,471	-	(1,471)	HDR	0.40	0.10	0.20	0.00	0.30	155	gpd/du	290,091	325	-	-	950	gpd/ac	99,917	112	-	-									
MU-HE	East Holt	75.2	92.2	16.9	1,692	2,074	381	HDR	0.75	0.25	0.00	0.00	0.00	155	gpd/du	292,375	327	358,265	401	950	gpd/ac	76,149	85	93,310	105									
MU-ME	Meredith	90.8	90.8	-	1,815	1,815	-	HDR	0.50	0.50	0.00	0.00	0.00	155	gpd/du	354,003	396	354,003	396	950	gpd/ac	97,578	109	97,578	109									
MU-IE	Inland Empire	36.6	36.6	-	300	300	-	LMDR	0.82	0.18	0.00	0.00	0.00	270	gpd/du	91,586	103	91,586	103	800	gpd/ac	31,920	36	31,920	36									
MU-MV	Mountain & 6th St	7.8	7.8	-	137	137	-	HDR	0.50	0.50	0.00	0.00	0.00	155	gpd/du	27,430	31	27,430	31	950	gpd/ac	8,395	9	8,395	9									
MU-HW	Mountain & West Holt	1.5	1.5	-	33	33	0	HDR	0.75	0.25	0.00	0.00	0.00	155	gpd/du	5,657	6	5,657	6	950	gpd/ac	1,473	2	1,473	2									
MU-EF	Euclid & Francis	12.7	12.7	-	190	190	-	HDR	0.50	0.50	0.00	0.00	0.00	155	gpd/du	39,621	44	39,621	44	950	gpd/ac	13,629	15	13,629	15									
MU-EW	Euclid & Walnut	16.4	16.4	-	369	369	-	HDR	0.75	0.25	0.00	0.00	0.00	155	gpd/du	63,738	71	63,738	71	950	gpd/ac	16,601	19	16,601	19									
MU-MF	Mountain & 4th St	7.2	7.2	-	251	251	-	HDR	0.70	0.30	0.00	0.00	0.00	155	gpd/du	42,367	47	42,367	47	950	gpd/ac	7,354	8	7,354	8									
MU-RH	Rich-Haven	153.7	153.7	-	2,380	2,380	-	MDR	0.86	0.12	0.02	0.00	0.00	195	gpd/du	498,481	558	498,481	558	950	gpd/ac	152,038	170	152,038	170									
MU-GR	Grove & Chino	36.1	45.1	9.0	821	1,025	204	HDR	0.65	0.25	0.10	0.00	0.00	155	gpd/du	147,521	165	184,178	206	950	gpd/ac	38,178	43	47,664	53									
MU-ER	Euclid & Riverside	15.0	15.0	-	394	394	0	HDR	0.75	0.25	0.00	0.00	0.00	155	gpd/du	67,022	75	67,022	75	950	gpd/ac	15,185	17	15,185	17									
MU-PS	Parkside	3.0	3.0	-	52	52	-	HDR	0.50	0.50	0.00	0.00	0.00	155	gpd/du	10,370	12	10,370	12	950	gpd/ac	3,174	4	3,174	4									
MU-SP	Sports Park	-	107.5	107.5	-	968	968	HDR	0.30	0.30	0.15	0.25	0.00	155	gpd/du	-	-	334,920	375	950	gpd/ac	-	-	129,560	145									
Total		1,752	1,672	79.6	34,234	31,589	2,645									6,676,173	7,477	6,347,092	7,109			1,878,624	2,104	1,817,719	2,036									
Increase due to PPA																																		

Notes
 1 Potable and Recycled Water Demand Factors for Com, Office, Hosp, and Ind land uses in units of gpd/ac.

Sources:
 1 Water Demand Factors from City of Ontario, 2024 Water Demand and Sewer Flow Factors Technical Memorandum.

Proposed Land Use	Proposed TOP Land Use Description	BUILDOUT NUMBERS			Sewer Flow					
		TOP 2050	PPA	Change	TOP 2050		PPA			
		DU (2050)	DU (2050)	DU (2050)	GPD	units	GPD	AFY	GPD	AFY
Residential										
RR	Rural	1,057.4	1,057.4	-	255	gpd/DU	269,632	302	269,632	302
LDR	Low Density	34,847.9	32,752.8	(2,095.0)	175	gpd/DU	6,098,378	6,830	5,731,748	6,420
LMDP	Low Medium Density	7,518.4	7,864.9	346.5	170	gpd/DU	1,278,133	1,432	1,337,032	1,497
MDR	Medium Density	47,205.5	47,010.3	(195.3)	160	gpd/DU	7,552,888	8,459	7,521,645	8,424
HDR	High Density	5,088.5	16,902.5	11,813.9	140	gpd/DU	712,397	798	2,366,347	2,650
Mixed Use		Acres	Acres	Acres						
MU	All MU Areas see mixed-use calculation	1,751.9	1,672.3	(79.6)	See Mixed-Use Calculations		5,721,159	6,408	5,396,954	6,045
Retail / Service										
NC	Neighborhood Commercial	245.8	237.3	(8.6)	1150	gpd/ac	282,709	317	272,849	306
GC	General Commercial	385.2	356.7	(28.5)	1150	gpd/ac	442,945	496	410,200	459
OC	Office / Commercial	309.2	309.2	-	1150	gpd/ac	355,586	398	355,586	398
HOS	Hospitality	194.2	167.0	(27.2)	2400	gpd/ac	466,059	522	400,700	449
Employment										
BP	Business Park (not including EBPSP)	1,056.3	1,197.5	141.2	1150	gpd/ac	1,214,699	1,360	1,377,127	1,542
BP - EBPSP	Business Park (EBPSP only)	-	138.0	138.0	1150	gpd/ac	-	-	158,711	178
BP-o	Business Park Overlay Areas	89.6	89.6	-	1150	gpd/ac	103,035	115	103,035	115
IND	Industrial	7,591.3	7,606.2	14.8	300	gpd/ac	2,277,401	2,551	2,281,847	2,556
IND-o	Industrial Overlay Areas	60.2	60.2	-	300	gpd/ac	18,047	20	18,047	20
Other										
OS-NR	Open SpaceNon-Recreation Open Space Parkland (not including EBPSP)	1,200.2	1,200.2	(0.0)	90	gpd/ac	108,020	121	108,019	121
OS-R	Open Space Parkland (not including EBPSP)	1,041.3	961.8	(79.4)	90	gpd/ac	93,714	105	86,564	97
OS-R-EBPSP	Open Space Parkland (EBPSP only)	-	36.4	36.4	90	gpd/ac	-	-	3,280	4
OS-W	Open Space - Water	17.3	17.3	-	90	gpd/ac	1,558	2	1,558	2
PF	Public Facility	89.7	89.7	-	475	gpd/ac	42,589	48	42,589	48
PS	Public School	603.4	603.7	0.4	500	gpd/ac	301,677	338	301,853	338
ARPT	Ontario International Airport	1,422.7	1,407.9	(14.8)	300	gpd/ac	426,801	478	422,355	473
LF	Landfill	136.6	136.6	-	0	gpd/ac	-	-	-	-
RAIL	Rail road	249.6	249.6	-	0	gpd/ac	-	-	-	-
ROW	Roadways	5,389.3	5,389.3	0.0	0	gpd/ac	-	-	-	-
Total							27,767,427	31,100	28,967,680	32,444
Increase due to PPA									1,200,253	1,344

Sources:

1 Sewer Flow Factors from City of Ontario, 2024 Water Demand and Sewer Flow Factors Technical Memorandum.

Proposed Land Use	Proposed TOP Land Use Description	BUILDOUT NUMBERS			BUILDOUT NUMBERS			Acreage Proportion						Sewer Flow Demand							
		TOP 2050	PPA	Change	TOP 2050	PPA	Change	Land-Use Percentage					TOP 2050		PPA						
		Acres	Acres	Acres	DU	DU	DU	Equivalent Res. LU category	Res	Com	Office	Hosp	Ind	Res Factor	units	GPD	AFY	GPD	AFY		
MU-DT	Downtown	131.5	131.5	-	2,762	2,783	21	HDR	0.60	1,150	0.20	1,150	0.20	0.00	0.00	140	gpd/du	447,170	501	450,112	504
MU-OC	Ontario Center (not including piemonte area)	186.4	186.4	-	3,729	3,729	-	HDR	0.50	0.30	0.20	0.00	0.00	0.00	140	gpd/du	629,190	705	629,190	705	
MU-AR	Ontario Center (piemonte area only)	169.2	169.2	-	5,076	5,076	-	HDR	0.75	0.15	0.10	0.00	0.00	0.00	140	gpd/du	759,265	850	759,265	850	
MU-OM	Ontario Mills	249.4	249.4	-	3,990	3,990	-	HDR	0.40	0.55	0.05	0.00	0.00	0.00	140	gpd/du	730,679	818	730,679	818	
MU-GU	Guasti	86.3	86.3	-	777	777	-	HDR	0.30	0.15	0.30	0.25	0.00	0.00	140	gpd/du	205,269	230	205,269	230	
MU-MM	Multimodal	72.6	72.6	-	653	653	-	HDR	0.15	0.15	0.45	0.25	0.00	0.00	140	gpd/du	185,028	207	185,028	207	
MU-GP	Grand Park	299.7	187.5	(112.1)	7,342	4,595	(2,748)	HDR	0.70	0.20	0.10	0.00	0.00	0.00	140	gpd/du	1,131,300	1,267	707,941	793	
MU-BC	Eucalyptus / Chino Airport	100.9	-	(100.9)	1,471	-	(1,471)	HDR	0.40	0.10	0.20	0.00	0.30	0.00	140	gpd/du	249,858	280	-	-	
MU-HE	East Holt	75.2	92.2	16.9	1,692	2,074	381	HDR	0.75	0.25	0.00	0.00	0.00	0.00	140	gpd/du	258,531	290	316,794	355	
MU-ME	Meredith	90.8	90.8	-	1,815	1,815	-	HDR	0.50	0.50	0.00	0.00	0.00	0.00	140	gpd/du	306,348	343	306,348	343	
MU-IE	Inland Empire	36.6	36.6	-	300	300	-	LMDR	0.82	0.18	0.00	0.00	0.00	0.00	170	gpd/du	58,605	66	58,605	66	
MU-MV	Mountain & 6th St	7.8	7.8	-	137	137	-	HDR	0.50	0.50	0.00	0.00	0.00	0.00	140	gpd/du	23,623	26	23,623	26	
MU-HW	Mountain & West Holt	1.5	1.5	-	33	33	0	HDR	0.75	0.25	0.00	0.00	0.00	0.00	140	gpd/du	5,002	6	5,002	6	
MU-EF	Euclid & Francis	12.7	12.7	-	190	190	-	HDR	0.50	0.50	0.00	0.00	0.00	0.00	140	gpd/du	33,915	38	33,915	38	
MU-EW	Euclid & Walnut	16.4	16.4	-	369	369	-	HDR	0.75	0.25	0.00	0.00	0.00	0.00	140	gpd/du	56,360	63	56,360	63	
MU-MF	Mountain & 4th St	7.2	7.2	-	251	251	-	HDR	0.70	0.30	0.00	0.00	0.00	0.00	140	gpd/du	37,632	42	37,632	42	
MU-RH	Rich-Haven	153.7	153.7	-	2,380	2,380	-	MDR	0.86	0.12	0.02	0.00	0.00	0.00	160	gpd/du	405,506	454	405,506	454	
MU-GR	Grove & Chino	36.1	45.1	9.0	821	1,025	204	HDR	0.65	0.25	0.10	0.00	0.00	0.00	140	gpd/du	129,515	145	161,698	181	
MU-ER	Euclid & Riverside	15.0	15.0	-	394	394	0	HDR	0.75	0.25	0.00	0.00	0.00	0.00	140	gpd/du	59,429	67	59,429	67	
MU-PS	Parkside	3.0	3.0	-	52	52	-	HDR	0.50	0.50	0.00	0.00	0.00	0.00	140	gpd/du	8,931	10	8,931	10	
MU-SP	Sports Park	-	107.5	107.5	-	968	968	HDR	0.30	0.30	0.15	0.25	0.00	0.00	140	gpd/du	-	-	255,625	286	
Total		1,752	1,672	79.6	34,234	31,589	2,645									5,721,159	6,408	5,396,954	6,045		
Increase due to PPA																		(324,205)	(363)		

Notes

1 Sewer Flow Factors for Com, Office, Hosp, and Ind land uses in units of gpd/ac.

Sources:

1 Sewer Flow Factors from City of Ontario, 2024 Water Demand and Sewer Flow Factors Technical Memorandum.

