

EXP-1316 East Hemel Masterplan

Potable and Foul Water Calculator - Outputs FW

Northern residential area (Catchment A)

Residential Water Efficiency l/p/d

Resi or Non-resi	Type	Number of Units	Gross Floor Area (m2)	Occupants / Covers	Avg Day Demand (l/d)
Residential	Studio				
Residential	1 bedroom	496		645	67704
Residential	2 bedroom	399		718	75411
Residential	3 bedroom	597		1552	162981
Residential	4 bedroom	83		266	27888
Residential	5 bedroom	33		118.8	12474
Non residential	D1 - Schools		141583	22573.8	451476
Non residential	B8 - Storage or distribution				
Non residential	B2 - General industrial				
Non residential	A2/B1 - Offices				
Totals				3300	814432

Dry weather flow l/s
 Infiltration
 Peak Flow l/s

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Southern residential area (Catchment C.1)

Residential Water Efficiency l/p/d

Resi or Non-resi	Type	Number of Units	Gross Floor Area (m2)	Occupants / Covers	Avg Day Demand (l/d)
Residential	Studio				
Residential	1 bedroom	537		698	73301
Residential	2 bedroom	370		666	69930
Residential	3 bedroom	527		1370	143871
Residential	4 bedroom	81		259	27216
Residential	5 bedroom	30		108.0	11340
Non residential	D1 - Schools		50500	8051.7	161033
Non residential	B8 - Storage or distribution				
Non residential	B2 - General industrial				
Non residential	A2/B1 - Offices				
Totals				3102	502198

Dry weather flow l/s
 Infiltration
 Peak Flow l/s

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Southern residential area (Catchment C.2)

Residential Water Efficiency l/p/d

Resi or Non-resi	Type	Number of Units	Gross Floor Area (m2)	Occupants / Covers	Avg Day Demand (l/d)
Residential	Studio				
Residential	1 bedroom	24		31	3276
Residential	2 bedroom	127		229	24003
Residential	3 bedroom	220		572	60060
Residential	4 bedroom	37		118	12432
Residential	5 bedroom	15		54.0	5670
Non residential	D1 - Schools				
Non residential	B8 - Storage or distribution				
Non residential	B2 - General industrial				
Non residential	A2/B1 - Offices				
Totals				1004	110462

Dry weather flow	1.2	l/s
Infiltration	10%	
Peak Flow	7.88	l/s

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Potable and Foul Water Calculator - Outputs FW

Southern residential area (Catchment C.3)

Residential Water Efficiency l/p/d

Resi or Non-resi	Type	Number of Units	Gross Floor Area (m2)	Occupants / Covers	Avg Day Demand (l/d)
Residential	Studio				
Residential	1 bedroom	84		109	11466
Residential	2 bedroom	136		245	25704
Residential	3 bedroom	214		556	58422
Residential	4 bedroom	37		118	12432
Residential	5 bedroom	14		50.4	5292
Non residential	D1 - Schools				
Non residential	B8 - Storage or distribution				
Non residential	B2 - General industrial				
Non residential	A2/B1 - Offices				
Totals				1079	118712

Dry weather flow	1.3	l/s
Infiltration	10%	
Peak Flow	8.37	l/s

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 Central Commercial Area (Catchment B.1)

Residential Water Efficiency l/p/d

Resi or Non-resi	Type	Number of Units	Gross Floor Area (m2)	Occupants / Covers	Avg Day Demand (l/d)
Non residential	o				
Non residential	o				
Non residential	o				
Non residential	o				
Non residential	B2 - General industrial				
Non residential	B8 - Storage or distribution				
Non residential	A2/B1 - Offices		26942	2245.2	101033
Totals				o	101033

Dry weather flow l/s
 Infiltration
 Peak Flow l/s

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 Central Commercial Area (Catchment B.2)

Residential Water Efficiency l/p/d

Resi or Non-resi	Type	Number of Units	Gross Floor Area (m2)	Occupants / Covers	Avg Day Demand (l/d)
Non residential	o				
Non residential	o				
Non residential	o				
Non residential	o				
Non residential	B2 - General industrial		45636	1268	126767
Non residential	B8 - Storage or distribution		62582	894.0	44701
Totals				o	171468

Dry weather flow l/s
 Infiltration
 Peak Flow l/s