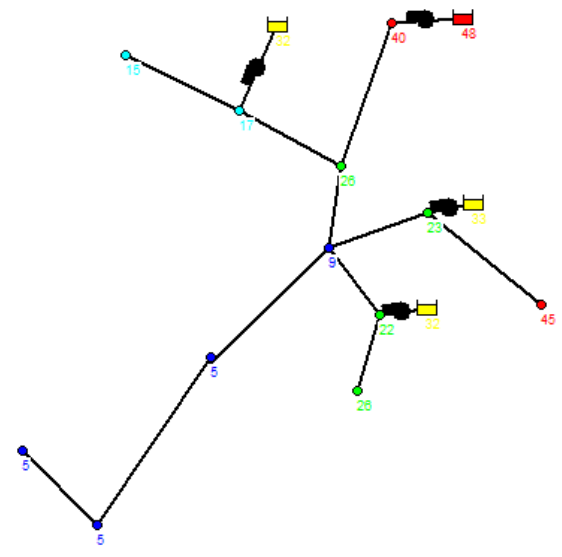
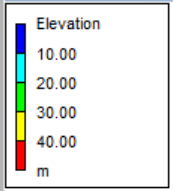


Node ID	Elevation m	Base Demand LPS	Initial Quality	Demand LPS	Head m	Pressure m	Quality
Junc 1	15	13	0	13.00	96.98	81.98	0.00
Junc 2	17	34.965	0	34.97	112.90	95.90	0.00
Junc 3	40	11.888	0	11.89	133.14	93.14	0.00
Junc 4	26	15.253	0	15.25	108.93	82.93	0.00
Junc 5	23	9.634	0	9.63	117.95	94.95	0.00
Junc 6	45	6.650	0	6.65	102.41	57.41	0.00
Junc 7	22	10.115	0	10.11	116.03	94.03	0.00
Junc 8	26	12.803	0	12.80	111.98	85.98	0.00
Junc 9	9	7.369	0	7.37	106.89	97.89	0.00
Junc 10	5	10.755	0	10.76	88.14	83.14	0.00
Junc 11	5	3.160	0	3.16	75.98	70.98	0.00
Junc 12	5	5.496	0	5.50	68.08	63.08	0.00
Resvr 13	32	#N/A	0	-51.58	32.00	0.00	0.00
Resvr 14	48	#N/A	0	-26.53	48.00	0.00	0.00
Resvr 15	33	#N/A	0	-28.12	33.00	0.00	0.00
Resvr 16	32	#N/A	0	-34.85	32.00	0.00	0.00

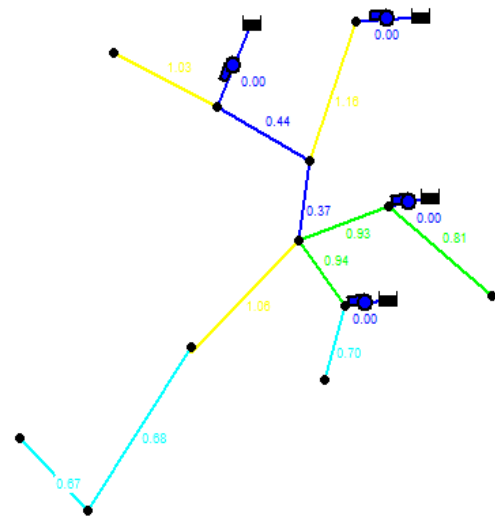
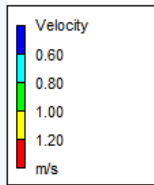
Link ID	Length m	Diameter mm	Roughness	Flow LPS	Velocity m/s	Unit Headloss m/km	Friction Factor	Reaction Rate mg/L/d	Quality	Status
Pipe 1	1419.51	127	120	-13.00	1.03	11.21	0.027	0.00	0.00	Open
Pipe 2	1301.35	102	120	3.62	0.44	3.05	0.031	0.00	0.00	Open
Pipe 3	1732.91	127	120	14.64	1.16	13.97	0.026	0.00	0.00	Open
Pipe 4	945.03	102	120	3.00	0.37	2.16	0.032	0.00	0.00	Open
Pipe 5	1933.26	152.4	120	19.41	1.06	9.69	0.026	0.00	0.00	Open
Pipe 6	2302.81	127	120	8.66	0.68	5.28	0.028	0.00	0.00	Open
Pipe 7	1193.16	102	120	5.50	0.67	6.62	0.029	0.00	0.00	Open
Pipe 8	1173.23	127	120	11.84	0.93	9.43	0.027	0.00	0.00	Open
Pipe 9	955.60	127	120	-11.94	0.94	9.57	0.027	0.00	0.00	Open
Pipe 10	904.13	152.4	120	12.80	0.70	4.49	0.027	0.00	0.00	Open
Pipe 11	1649.16	102	120	6.65	0.81	9.43	0.028	0.00	0.00	Open
Pump 13	#N/A	#N/A	#N/A	26.53	0.00	-85.14	0.000	0.00	0.00	Open
Pump 14	#N/A	#N/A	#N/A	28.12	0.00	-84.95	0.000	0.00	0.00	Open
Pump 15	#N/A	#N/A	#N/A	34.85	0.00	-84.03	0.000	0.00	0.00	Open
Pump 16	#N/A	#N/A	#N/A	51.58	0.00	-80.90	0.000	0.00	0.00	Open

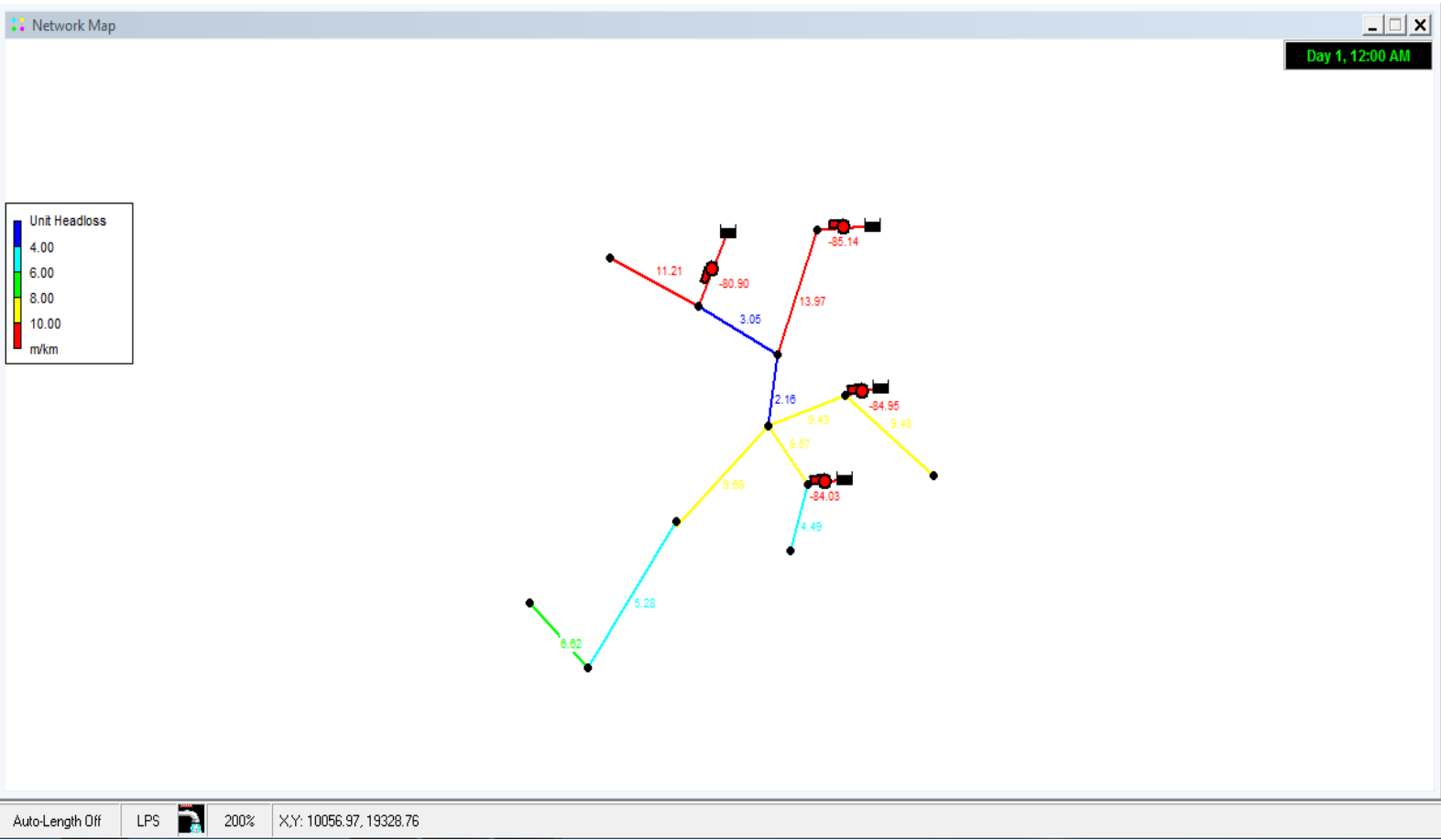
Network Map

Day 1, 12:00 AM



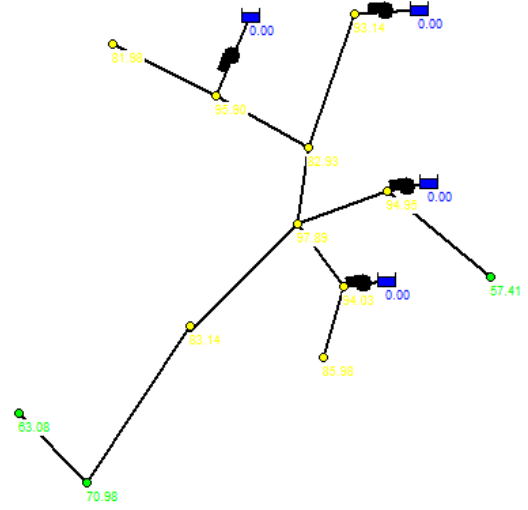
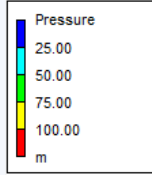
Auto-Length Off LPS 200% X,Y: 17691.58, 19612.76





Network Map

Day 1, 12:00 AM



Auto-Length Off LPS 200% X,Y: 15603.34, 20047.12

NO	Uraian	Satuan				
			2018	2019	2020	2021
1	Jumlah Penduduk	Jiwa	87310	88310	89310	90310
2	Tingkat Pelayanan	%	100	100	100	100
3	Penduduk Terlayani	Jiwa	87310	88310	89310	90310
4	Kebutuhan Air Terlayani					
	a.Sambungan Rumah (SR)					
	1. Tingkat Pelayanan	%	70	70	70	70
	2. Penduduk yg Terlayani	Jiwa	61117	61817	62517	63217
	3. Pemakaian Air	l/org/hr	7945210	8036210	8127210	8218210
	4. Kebutuhan Air	l/det	92,0	93,0	94,1	95,1
	5. Jumlah Sambungan	Unit	10186	10303	10420	10536
	b. Hidran Umum (HU)					
	1. Tingkat Pelayanan	%	30	30	30	30
	2. Penduduk yg Terlayani	Jiwa	26193	26493	26793	27093
	3. Pemakaian Air	lt/org/hr	785790	794790	803790	812790
	4. Kebutuhan Air	lt/det	9,1	9,2	9,3	9,4
	5. Jumlah Sambungan	Unit	261,93	264,93	267,93	270,93
5	Kebutuhan Air Domestic (D)=(SR+HU)	lt/det	101,1	102,21065	103,36806	104,525463
6	Kebutuhan Air Non Domestic					
	a. % dari Kebutuhan Domestic	%	30	30	30	30
	1. Kebutuhan Pendidikan	lt/det	2,149	2,265	2,380	2,496
	2. Kebutuhan Masjid	lt/det	1,319	1,319	1,319	1,319
	3. Kebutuhan Gereja	lt/det	0,0463	0,0463	0,0463	0,0463
	4. Kebutuhan Mushola	lt/det	5,718	5,718	5,718	5,718
	5. Kebutuhan Pasar	lt/det	0,364	0,368	0,372	0,376
	6. Kebutuhan Puskesmas	lt/det	0,0463	0,0463	0,0463	0,0463
	7. Kebutuhan Terminal	lt/det	0,0303	0,0307	0,0310	0,0314
	8. Kebutuhan Olahraga	lt/det	0,0062	0,0063	0,0064	0,0064
	9. Kebutuhan Kantor	lt/det	0,022	0,023	0,023	0,023
	10. Kebutuhan Toko	lt/det	0,040	0,040	0,041	0,041
	b. Jumlah Kebutuhan	lt/det	9,741	9,862	9,983	10,104
7	Total Kebutuhan Air (D+ND)	lt/det	110,794317	112,0728	113,35129	114,629794
8	Kehilangan Air					
	a. % dari Kebutuhan Total	%	20	20	20	20
	b. Jumlah Kehilangan	lt/det	22,159	22,415	22,670	22,926
9	Kebutuhan Air Rat-rata	lt/det	132,95	134,49	136,02	137,56
10	Kapasitas Produksi	lt/det	6,226	6,226	6,226	6,226
11	Tambahan Air yg Diperlukan	lt/det	126,73	128,26	129,80	131,33

Tahun Proyeksi n

2022	2023	2024	2025	2026	2027	2028	2029	2030
91310	92310	93310	94310	95310	96310	97310	98310	99310
100	100	100	100	100	100	100	100	100
91310	92310	93310	94310	95310	96310	97310	98310	99310
70	70	70	70	70	70	70	70	70
63917	64617	65317	66017	66717	67417	68117	68817	69517
8309210	8400210	8491210	8582210	8673210	8764210	8855210	8946210	9037210
96,2	97,2	98,3	99,3	100,4	101,4	102,5	103,5	104,6
10653	10770	10886	11003	11120	11236	11353	11470	11586
30	30	30	30	30	30	30	30	30
27393	27693	27993	28293	28593	28893	29193	29493	29793
821790	830790	839790	848790	857790	866790	875790	884790	893790
9,5	9,6	9,7	9,8	9,9	10,0	10,1	10,2	10,3
273,93	276,93	279,93	282,93	285,93	288,93	291,93	294,93	297,93
105,6828704	106,84028	107,997685	109,15509	110,3125	111,469907	112,6273	113,784722	114,94213
30	30	30	30	30	30	30	30	30
2,612	2,728	2,843	2,959	3,075	3,191	3,306	3,422	3,538
1,319	1,354	1,354	1,354	1,354	1,354	1,389	1,389	1,389
0,0463	0,0579	0,0579	0,0579	0,0579	0,0579	0,0694	0,0694	0,0694
5,718	5,764	5,764	5,764	5,764	5,764	5,810	5,810	5,810
0,380	0,385	0,389	0,393	0,397	0,401	0,405	0,410	0,414
0,0463	0,0463	0,0463	0,0463	0,0463	0,0463	0,0463	0,0463	0,0463
0,0317	0,0321	0,0324	0,0327	0,0331	0,0334	0,0338	0,0341	0,0345
0,0065	0,0066	0,0067	0,0068	0,0068	0,0069	0,0070	0,0071	0,0072
0,023	0,024	0,024	0,024	0,025	0,025	0,025	0,026	0,026
0,042	0,042	0,043	0,043	0,044	0,044	0,045	0,045	0,046
10,225	10,439	10,560	10,681	10,803	10,924	11,137	11,259	11,380
115,9083068	117,27942	118,557955	119,8365	121,11505	122,393617	123,7648	125,043372	126,32197
20	20	20	20	20	20	20	20	20
23,182	23,456	23,712	23,967	24,223	24,479	24,753	25,009	25,264
139,09	140,74	142,27	143,80	145,34	146,87	148,52	150,05	151,59
6,226	6,226	6,226	6,226	6,226	6,226	6,226	6,226	6,226
132,86	134,51	136,04	137,58	139,11	140,65	142,29	143,83	145,36

2031	2032	2033	2034	2035	2036	2037	2038
100310	101310	102310	103310	104310	105310	106310	107310
100	100	100	100	100	100	100	100
100310	101310	102310	103310	104310	105310	106310	107310
70	70	70	70	70	70	70	70
70217	70917	71617	72317	73017	73717	74417	75117
9128210	9219210	9310210	9401210	9492210	9583210	9674210	9765210
105,7	106,7	107,8	108,8	109,9	110,9	112,0	113,0
11703	11820	11936	12053	12170	12286	12403	12520
30	30	30	30	30	30	30	30
30093	30393	30693	30993	31293	31593	31893	32193
902790	911790	920790	929790	938790	947790	956790	965790
10,4	10,6	10,7	10,8	10,9	11,0	11,1	11,2
300,93	303,93	306,93	309,93	312,93	315,93	318,93	321,93
116,099537	117,25694	118,41435	119,5718	120,7292	121,88657	123,044	124,20139
30	30	30	30	30	30	30	30
3,654	3,769	3,885	4,001	4,117	4,232	4,348	4,464
1,389	1,389	1,424	1,424	1,424	1,424	1,424	1,458
0,0694	0,0694	0,0810	0,0810	0,0810	0,0810	0,0810	0,0926
5,810	5,810	5,856	5,856	5,856	5,833	5,856	5,856
0,418	0,422	0,426	0,430	0,435	0,439	0,443	0,447
0,0463	0,0463	0,0463	0,0463	0,0463	0,0463	0,0463	0,0463
0,0348	0,0352	0,0355	0,0359	0,0362	0,0366	0,0369	0,0373
0,0073	0,0073	0,0074	0,0075	0,0076	0,0077	0,0078	0,0079
0,026	0,026	0,027	0,027	0,027	0,028	0,028	0,028
0,046	0,047	0,048	0,048	0,049	0,049	0,050	0,051
11,501	11,622	11,836	11,957	12,079	12,177	12,321	12,489
127,600579	128,8792	130,25042	131,5291	132,8077	134,06324	135,3651	136,69006
20	20	20	20	20	20	20	20
25,520	25,776	26,050	26,306	26,562	26,813	27,073	27,338
153,12	154,66	156,30	157,83	159,37	160,88	162,44	164,03
6,226	6,226	6,226	6,226	6,226	6,226	6,226	6,226
146,89	148,43	150,07	151,61	153,14	154,65	156,21	157,80