

Table A1: Pipe data, and nodal requirements for WDS of El-Mostakbal City

Pipe No.	Length (m)	Diameter (mm)	C_{HW}	a (m/s)	Node No.	Peak Demand (l/s)	Level (m)
1	2463.0	600	100	910.1	1	-----	15.0
2	100.0	500	100	959.3	2	0.0	15.0
3	328.0	150	100	1227.2	3	24.0	14.0
4	80.0	150	100	1227.2	4	0.0	14.0
5	149.3	150	100	1227.2	5	19.2	14.0
6	67.0	150	100	1227.2	6	0.0	14.0
7	184.3	150	100	1227.2	7	0.0	14.0
8	288.0	500	100	959.3	8	17.6	14.0
9	100.0	500	100	959.3	9	20.8	14.0
10	341.7	150	100	1227.2	10	19.2	14.0
11	152.5	150	100	1227.2	11	0.0	14.0
12	70.0	150	100	1227.2	12	0.0	14.0
13	172.0	150	100	1227.2	13	0.0	14.0
14	109.0	150	100	1227.2	14	0.0	14.0
15	104.7	150	100	1227.2	15	19.2	14.0
16	155.0	500	100	959.3	16	0.0	14.0
17	123.5	500	100	959.3	17	24.0	14.0
18	98.4	150	100	1227.2	18	24.0	15.0
19	164.6	150	100	1227.2	19	19.2	15.0
20	127.6	150	100	1227.2	20	34.1	15.0
21	225.5	500	100	959.3	21	0.0	15.0
22	198.0	400	100	1017.5	22	20.8	15.5
23	357.9	150	100	1227.2	23	0.0	15.5
24	134.2	200	100	1174.9	24	16.0	15.0
25	163.4	200	100	1174.9	25	16.0	15.5
26	309.2	150	100	1227.2	26	0.0	15.5
27	92.7	200	100	1174.9	27	0.0	15.5
28	84.9	150	100	1227.2	28	0.0	15.5
29	226.3	150	100	1227.2	29	24.0	15.5
30	100.0	400	100	1017.5	30	0.0	15.5
31	217.0	300	100	1087.8	31	19.2	15.5
32	101.0	150	100	1227.2	32	19.2	15.5
33	156.5	150	100	1227.2	33	16.0	15.5
34	185.0	150	100	1227.2			
35	145.8	150	100	1227.2			
36	230.0	200	100	1174.9			
37	262.6	300	100	1087.8			
38	109.9	150	100	1227.2			
39	114.9	150	100	1227.2			
40	181.9	250	100	1128.8			
41	120.0	150	100	1227.2			
42	257.4	150	100	1227.2			
43	184.0	150	100	1227.2			
44	370.0	150	100	1227.2			