

Supplementary file 1



Figure S1- Aerial map of the town in which the emergency reservoir storage was established.

Table S1- Information on population and emergency reservoir storage

Amount	Unit	Description
Block number	number	84
Unit number	number	20

<b>Total units</b>	number	<b>1680</b>
<b>Average family number</b>	person	<b>3.4</b>
<b>Population</b>	person	<b>5712</b>
<b>Flow per person</b>	L/day	<b>3</b>
<b>Storage capacity</b>	m <sup>3</sup>	<b>50</b>



Figure S2- Shamim Meher's school

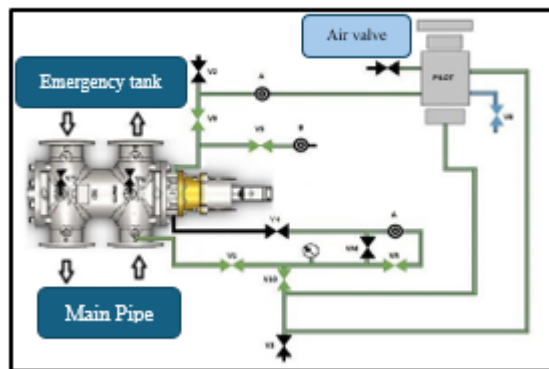


Figure S3- Operation of the shut-down valves

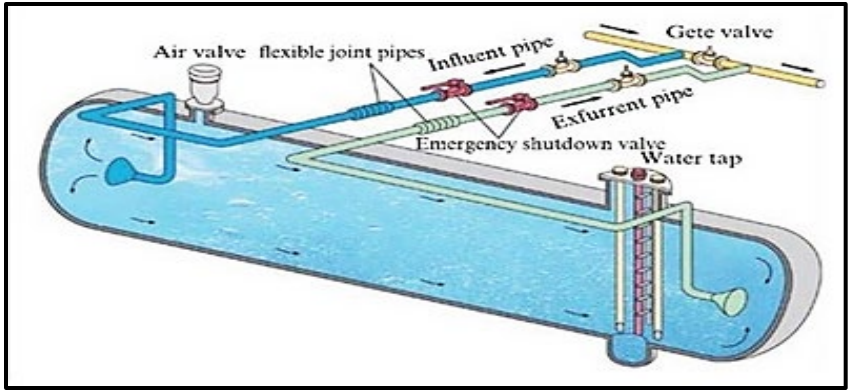


Figure S4 – The connection between the emergency tank and the water distribution network

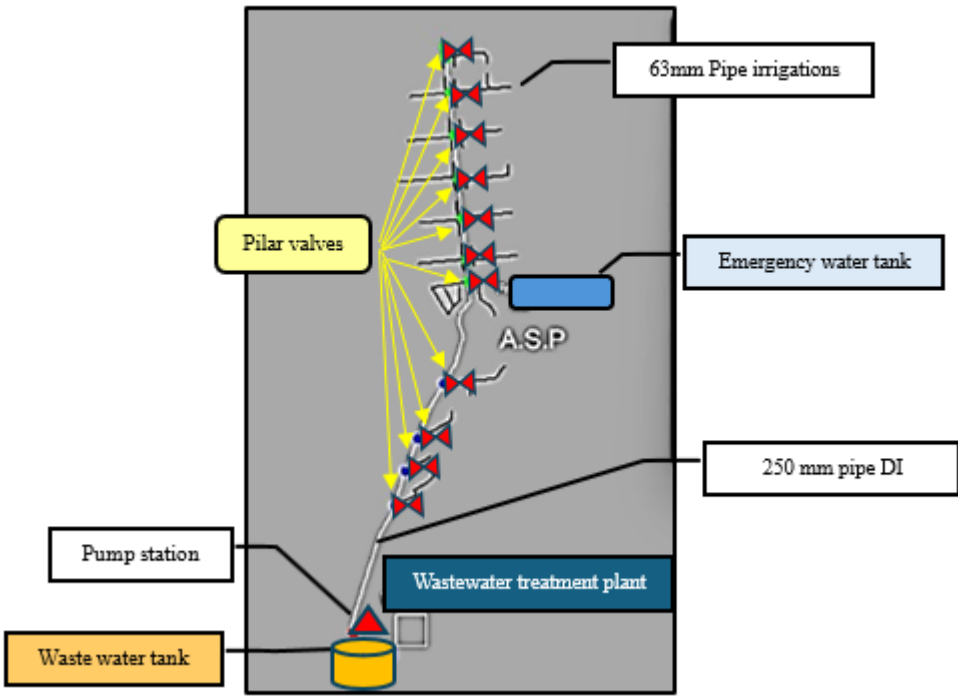


Figure S5- Waste water tank

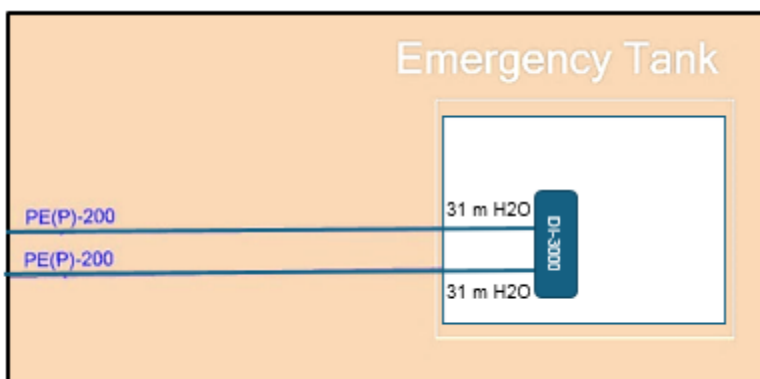


Figure S6- inlet and outlet pressure of emergency tank

Table S2- available green space

Address	Green space area (m <sup>2</sup> )	Green space area (hectare)	Flow (L/s)
Mehr1	1400	0.14	0.112
Mehr2	1800	0.18	0.144
Mehr3	1200	0.12	0.096
Mehr4	2200	0.22	0.176
Mehr5	1100	0.11	0.088
Mehr6	1850	0.185	0.148
Mehr7	1200	0.12	0.096
Mehr8	1550	0.16	0.124
Mehr9	950	0.10	0.076
Mehr10	1750	0.18	0.14
Mehr11	1150	0.12	0.092
Mehr12	1400	0.14	0.112
Mehr13	1450	0.145	0.116
Mehr14	1950	0.195	0.156
Mehr15	2100	0.21	0.168
<b>total</b>	<b>23050</b>	<b>2.3</b>	<b>1.8</b>

Table S3- quality parameters of the ASP wastewater treatment plant and compared with the standard parameters

Parameter	OUTLET ASP	STANDARD mg/L
Cl (mg/L)	55	600
Mg (mg/L)	30	100
Fe (mg/L)	0.4	3
Mn (mg/L)	0.6	1
Al (mg/L)	0.2	5
B (mg/L)	0.3	1
BOD (mg/L)	15	100

<b>COD (mg/L)</b>	<b>30</b>	<b>200</b>
<b>TSS (mg/L)</b>	<b>13</b>	<b>100</b>
<b>pH</b>	<b>7.8</b>	<b>8.5</b>

Table S4- Speed range in the hydraulic model

<b>Number of pipe with speed statue</b>	<b>speed m/s</b>
3	$V \approx 0$
37	$0 < V \leq 0.3$
20	$0.3 < V \leq 1$