

during the day when no residents are drawing water, V1 can be closed and V2 opened so that additional water will flow to the cistern. The sources that are not currently in use (nos. 2 and 3) can provide water to the cistern throughout the entire day. Water will be pumped from the cistern to the reservoir twice a day.

Diagram 2: Connecting the three sources.

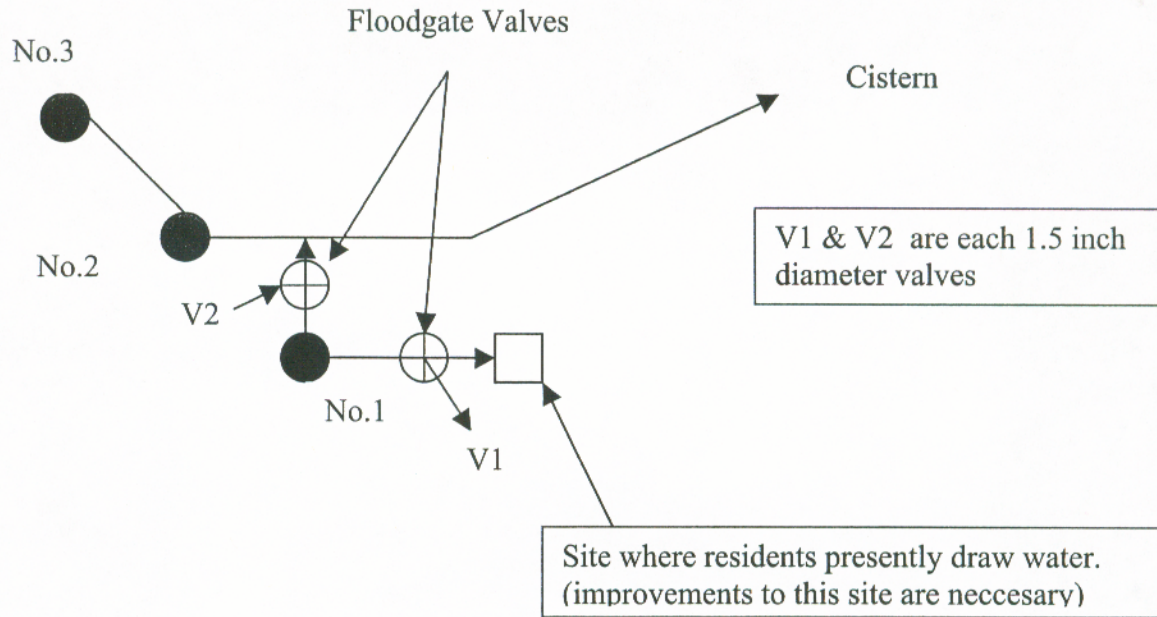


Table 2 below summarizes these operations and indicates the volume of water that can be collected in the cistern.

Table 2: Volume of water supplied by the sources

Springs	Schedule	Available Flow (l/sec)	Total hours	Volume (liters)
1, 2 and 3	6pm – 3 am	0.33	9	10692
2 and 3	3am – 6 pm	0.22	15	11880
Total			24	22572