

AGM Water Distribution Report October 2021-Peter Ockenden

We manage 6.5km of pipeline (mostly AC pipe) servicing 119 properties in Hamilton Park and Grants Estate. There are three (3) large storage dams that can hold about 80Megalitres of water, plus the small Dennis Duggan dam (not connected to water system). There is also a network of catchment drains that feed these dams. There is also a 3.5KM pipeline from the pump and weir system on 15MileCreek delivering water to the 2 lower dams. The system is approaching 50yrs in age, so we can continue to expect problems with our infrastructure. We did do a major upgrade to the spillways on the Frank Wellman Dam and the Bottom Dam near Warby Range Road for dam safety in 2017. That work has paid off during this wet period with the spillways operating as we expected.

Here are some brief points from this last year;

- The maintenance issues are pretty consistent between years. We now have a system before we engage the plumbers on repairs, a site visit to assess the meter flow and clean out the mechanism. A number of water meters were replaced due to faulty recordings. Ribbon weed is a problem in the water mains most summers, blocking up the filters in meters. Pete Janas is our resident meter wizard he repaired 19 water meters over the last year, large saving to HP.
- Plumbing: Stone Bros Plumbing was called on 6 occasions to fix blockages and pipeline leaks. Tree roots are a constant problem throughout.
- Drains: It is most important that residents do not place any items in the drainage easements across HP that will block the flow of drainage water. I have noticed this becoming an issue especially this winter/spring.
- The Dial Before You Dig (DBYD) reporting has been invaluable with numerous requests received with the majority associated with the pipeline to 15Mile Creek near the Freeway and the BP Complex. There are other underground assets besides water in HP including power and communication cables most are unmarked. We are moving to an automated DBYD service later this year to cut down on the reporting work for the Water Distribution Manager.
- Thank you to all the volunteers who assisted throughout the year and our meter readers.
- We have continued to work on upgrading the mapping of the infrastructure and the maintenance of the fire hydrant system.
- Meters are read twice a year (September and April) here is a breakdown of the last couple of years. Water revenue is a major source of income for the Park.

We use about 20ML of water each year on average. Our storage is approximately 80ML, but we lose a lot in evaporation over summer. HP tries to keep an effective level of supply available over summer for fire protection. The supply also is very important for wildlife habitat and I am sure residents appreciate the water features throughout the common lands.

Below is a breakdown of some of the last year's water use.

Total Useage KL at Sept 2020	3311	Total Usage KL at April 2021	16942	Total Usage KL at Sept 2021	4173
Total Litres (L)	3311000	Total Litres (L)	16942000	Total Litres (L)	4173000
Total Megalitres Used (ML or 1,000,000L)	3.311	Total Megalitres Used (ML or 1,000,000L)	16.942	Total Megalitres Used (ML or 1,000,000L)	4.173
Average reading usage (KL)	27.82352941	Average reading usage (KL)	142.3697479	Average reading usage (KL)	34.775
Max Reading usage (KL)	203	Max Reading usage (KL)	540	Max Reading usage (KL)	422
Min Reading Min usage (KL)	0	Min Reading Min usage (KL)	0	Min Reading Min usage (KL)	0
Total Income based on \$0.98/KL	\$3,244.78	Total Income based on \$0.98/KL	\$16,603.16	Total Income based on \$1.03/KL	\$4,298.19