

Mannofield West Regulation Zone, East Region

02/08/2016

DWQR Staff Present

Bill Byers, Matt Bower

Scottish Water Staff Present

Eric Ross, Brian Stewart, Robert Rob, Colin Napier, Kes Juskowiak, David Hill

Summary of Inspection

Overall Summary

An audit on aspects of the operation and maintenance of Service Reservoirs in the Mannofield distribution system in the Inch area, taking in Inchfield and Largie Service Reservoirs.

Number of Findings: 5

Quality of Water

Largie Service Reservoir had experienced three separate failures of the Total Coliforms microbiological standard in 2015 which raised some concern over asset integrity and turnover. Inchfield, the feeder Service Reservoir for Largie had one failure of the same standard in 2015.

Asset Robustness

Both sites were in good order with the ground well maintained and tidy. Security aspects were appropriate with padlocked access gates to the sites and padlocked covers within the sites. The perimeter fence at Inchfield requires some minor attention. Access covers inspected had a good seal against ingress around the lids at Inchfield but at Largie, there was less confidence in there being a tight seal. Insect screens at Largie need to be sealed against the tank wall.

Operational Practices

There is good evidence of investigation of the potential causes of sample failures at Largie and of measures put in place to try and reduce the risk of further microbiological failures. Plans are in place to feed the area supplied by this tank, directly from Inchfield SR to allow abandonment of the Largie tank. This involves a change of pumps and controls which are currently being organised.

Management of Risk

Telemetry is active for both sites and the Inchfield pump house. Alarms from the sites are rare. Key valves are well identified by paint and valve markers.

Recording Information

Information of pipe layout, valve locations and status is maintained in the field GIS system accessible to any NSO required to attend the SRs or network.

Water Safety Plan

There are no specific interventions for these two Service Reservoirs identified in the Water Safety Plans. Steps are however currently being taken to enable abandonment of the Largie SR.