

Technical Inspection of Scottish Water Distribution System

Lintrathen Regulation Zone, East Region

18 February 2015

DWQR Staff Present

Bill Byers

Scottish Water Staff Present (& Titles)

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Summary of Inspection

Overall Summary

An audit on aspects of the operation and maintenance of Lintrathen distribution system in the Kirriemuir area taking in Kirriemuir Hill and Kinnettles Service Reservoirs and Boundary Valve Management.

Number of Findings: 3

Score (out of 6)

Quality of Water

3

Adequate

The two Service Reservoirs had experienced failures of microbiological samples during 2013 which had been attributed to asset integrity. Neither had failed in 2014.

Asset Robustness

4

Good

The sites audited were in good order with the ground well maintained and tidy. Generally, security aspects were appropriate with good fencing and padlocked access to the compounds and to cabinets and covers within the site. One localised area of masonry wall at Kirriemuir Hill had fallen and required repair and this was in hand. Access covers inspected had a good seal around lids and there were no concerns around possible ingress at these points.

Operational Practices

4

Good

Good evidence of proactive review and management of distribution chlorine levels at SRs. Both SRs had been cleaned within an acceptable timescale although DWQR considers there to be a need to expedite considerations on providing ability to bypass Kirriemuir Hill to enable future cleaning and inspection needs. Good evidence of DOMS requirements for completed work IAFs shown for planned work in Kinnettles area.

Management of Risk

3

Adequate

SR Telemetry active at both sites. Key valves identified by paint and valve markers. Management of Boundary valve operation evidenced by current Boundary Valve report. Boundary valve operation recorded in main GIS. Inspection of boundary valves in Kirriemuir found 1 WSZ valve to be appropriately foamed and tagged but 1 DMA valve had no indicators within the chamber.

Recording Information

5

Very good

Good level of detail in the SR site diaries of attendance and maintenance of secondary chlorination units. Information of pipe layout, valve location and status is maintained in the field GIS system accessible to any NSO required to attend the SRs or network.

Water Safety Plan Development

Water Safety Plan Implementation

2

Weak

The WSP had been recently updated to reflect timescales offered by the new investment period. Items in improvement plan for Kirriemuir Hill bypass arrangement and abandonment of Cairnhill SR. Nothing however is identified for works being carried out at Airlie or Cothelhill SRs - which have active scope agreements, nor Kinnettles SR which was indicated to be requiring removal of the grassed-over roof and new membrane. These are therefore specific recognised risks which should be recognised in the plan.