

Technical Inspection of Scottish Water Treatment Works

Spey Badentinan WTW, Moray

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Summary of Inspection

Overall Summary

Badentinan Treatment works provides supply to Elgin, Rothes and the surrounding coastal and rural communities. Drawing water from wellfields, treatment is provided by membrane filtration units which produce a very high quality final water. Currently there is a programme of work underway to upgrade the pumping arrangements from the wellfields and to provide better monitoring of the waterquality through the process. The audit showed the operation of the works to be of a good standard. Careful assessment of the resilience of the filters and disinfection is likely to be required as production is increased towards design capacity to maximise output from the works.

Number of Findings: 5

Score

Quality of Water Produced

5

Very good

Water quality is very good due to a consistent standard of raw water entering the process and the current position of operating well within (60%) it's design capacity

Robustness of Treatment Asset

4

Good

The membrane filtration units are able to produce a high standard of water through to the finishing processes in the works. Scottish water are currently underatking a process of replacement of valves and membrane cells to ensure optimum performance of filter wash and production.

Operational Practices

4

Good

Operations Staff demonstrate a high degree of ownership of the treatment plant. The works is tidy and the attention given to record keeping is of a very high standard. Defined operational response to membrane trends is required.

Maintenance of Asset

5

Very good

The buildings and plant are of a reasonable standard and the attention to maintenance requests made by the operators to attend to breakdowns are being met. Evidence of ground maintenance and tank cleaning contracts being met.

Safeguards and Procedures

4

Good

There are current gaps in the provision of best practice water quality monioring but it is recognised that there is a substantial programme of improvement to the raw water quality and process stages.

Water Safety Plan Development and Implementation

The Safety Plan has recently been updated with the imminent dates in the Improvement plan looking to being met. Some dates are currently of long delivery as the end of next investment period and DWQR would look to see these refined as understanding grows of the preferred solutions.