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Dear Sue

Rosebery WTW – SR21 Letter of Commitment

Rosebery Water Treatment Works (WTW) is located near the town of Penicuik in Midlothian and supplies up to 40 Ml/d into Gorebridge, Dalkeith, Haddington, and the surrounding area. The WTW consists of conventional treatment based on coagulation, dissolved air flotation and rapid gravity filtration followed by chlorine disinfection and was originally constructed in 1990. Additional dissolved air flotation and filtration was added in 2008, allowing pressure filters to be decommissioned and increase the capacity of the site.

In 2018 elevated levels of water quality taste and odour customer contacts occurred due to elevated levels of Geosmin and other algal compounds in Gladhouse reservoir. These elevated levels occurred at a time when the reservoir was drawn down to protect the spillway which has structural issues that are being addressed.

As with many catchments across Scotland the level of organics, colour, iron and have been rising and our asset capability investigations have also identified that improvements are required to the disinfection, filtration and run to waste facilities to minimize risks to water quality. Performance of the supply system over the last five years shows a continuing history of microbiological, taste and odour and discolouration exceedances of regulatory standards.

We have identified and agree with the DWQR a 'Needs Statement' setting out identified water quality and supply risks in the Rosebery supply system. This includes a number of improvements currently being undertaken, which involve improving the capability of Rosebery WTW to coagulate, clarify and filter water which will address some of the issues identified above but not all the risks associated with algae, geosmin and other algal compounds.

Following the completion of an investigation and options appraisal, issued to the DWQR on the 30th September 2019, Scottish Water provides commitment to deliver the following actions in line with the preferred option set out in the appraisal:

1. Continue operational management of raw water blend and monitoring of raw water for algal compounds.
2. Complete the delivery of the current maintenance improvements works to the WTW.
3. Initiate works to repair the spillway at Gladhouse reservoir and confirm the date for completion of these to DWQR by December 2019, and allow reservoir levels to be restored.
4. Investigate and implement where possible catchment improvements to management of livestock (deer).
5. Develop contingency plans to manage any taste and odour issues that occur during the delivery of, or after the planned works are complete (powdered activated carbon dosing capability into the Gladhouse raw water supply).
6. Investigate further risk control options to inform a future decision making, including trials where appropriate.
7. Assess performance improvements from above actions and Scottish Natural Heritage requirements for Gladhouse reservoir water levels (for Birds and Habitats requirements) and Appraise options to reduce risk further and secure provision of consistent, high quality water in the Rosebery supply system.

I trust this meets your expectation and assure you of our ongoing operational and monitoring activities to manage water quality within this system and our commitment to make the required longer term improvements to the Roseberry water supply systems to ensure compliance with standards

Yours sincerely

A handwritten signature in black ink, appearing to read 'Simon Parsons', written in a cursive style.

Simon Parsons

Director of Strategic Customer Service Planning