

## North Hoy WTW, Orkney

1 September 2009

### Inspection Report

#### Overall Summary

North Hoy treatment works produces water of a high quality, however this risks being compromised by the need to tanker additional supplies to meet demand. The works is well run, although attention is needed to some aspects of sampling, monitoring and maintenance.

	Score (out of 6)	
<b>Quality of Water Produced</b>	5	Very good
<p>The quality of water produced by the works is very good, as the treatment process consistently produces high quality water, unfortunately in small quantities.</p>		
<b>Robustness of Treatment Asset</b>	2	Weak
<p>The treatment works is undersized, necessitating tankering of water from another treatment works on a regular basis. This situation is not good, and increases the potential risk to water quality. Final water sampling arrangements are unsatisfactory, and the site lacks welfare facilities for staff.</p>		
<b>Operational Practices</b>	4	Good
<p>Operational practices are generally good at the site, with excellent housekeeping and all the necessary checks being undertaken. Tankering water into the contact tank is not good practice but has been forced upon the operational team in the absence of a viable alternative.</p>		
<b>Maintenance of Asset</b>	3	Adequate
<p>The works is showing its age. Maintenance appears generally adequate, but there is no mechanism for determining membrane life and triggering replacement.</p>		
<b>Safeguards and Procedures</b>	3	Adequate
<p>Recent improvements have been made to quality monitoring at the site, although the works still lacks a raw water turbidity monitor, and certain actions relating to chlorine and turbidity monitoring of final water remain outstanding.</p>		
<b>Water Safety Plan Development and Implementation</b>	2	Weak
<p>The water safety plan for the site appears weak, given obvious deficiencies in the ability of the works to meet demand. The water safety plan is not readily available to operational staff, and is not being actively updated to reflect changing circumstances.</p>		