

Seafeld Stakeholders Meeting

Operational Update - 26th April 2019



Operational Report

- Introduction
- Operating Conditions in February/March
- OMP / Actions taken
- Noise / Actions taken
- Community Engagement
- Lookahead

Operating Conditions in February/March

Environmental conditions towards late February 2019:

- Very low flows in February
- Extended period of light onshore wind
- Record high temperatures in late February
- First flush through the sewers in early March followed by low-speed onshore wind

Veolia Response:

- Wood Group reported conditions were recognised by Veolia in advance and OMP contingency actions were being taken from late January and through February.
 - Sludge processing availability assessed in late January
 - TH Sludge processing contingencies commenced first week of February
 - Centrifuging arrangements commenced before mid February
 - Community Notification issued mid February
 - Site meeting with Regulators on 21 February
- Additional OMP contingencies mobilised and operated through March

March 2019 - present:

- PSTs and sludge levels at consistently low levels
- Additional regulatory visits and increased comms with CEC/SEPA
- Seafeld Plant operating existing assets in line with OMP & minimisation objectives
- Odour Complaint days continue through March and peak in April

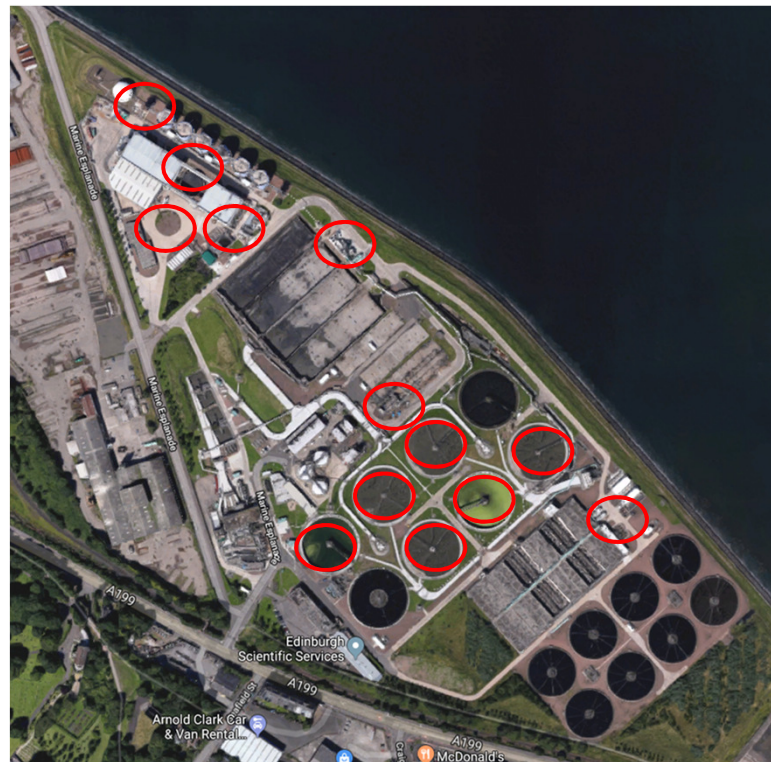


OMP : Actions Taken to Mitigate Odour Risk

- Strategic Odour Review short-term operational recommendations completed or closed ✓
- Additional operators on 24-hour shifts instituted to assist in reducing odour risk ✓
- Each complaint investigated in line with OMP and fed back to relevant regulator/client ✓
- Sludge volumes monitored daily and shared with CEC, SEPA and Scottish Water ✓
- Community notification prepared ✓
(prepared two weeks prior to complaints in late February)
- Potassium permanganate dosing used (once) following odour risk assessment & liaison ✓
(initiated when boundary H₂S concentrations exceed trigger level of 5ppb as per OMP)
- Additional desludging contingencies prepared ✓
(mobilised 2 weeks prior to complaints escalating in anticipation of changing weather conditions)
- Odour sensitive activities re-programmed/deferred ✓
- Comms increased with additional emails & weekly updates issued to ScW, CEC & SEPA ✓

Noise Complaints

- Multiple rotating machinery assets generate noise on site
- All equipment available to operate 24/7/365 to meet licence conditions



○ Multiple Noise sources

- Compressors used to generate air to remove sludge from PSTs

Actions Taken to Reduce Noise Impact

- Acknowledge & apologise for noise & disturbance caused
- Noise is dynamic and does rise/fall
- Full cooperation with CEC Environmental Health following complaints
- Fundamentally no changes made to existing assets and their intended use, noisier compressors were replaced in 2014
- All compressors working & available, operate automatically/intermittently
- Inverse link between noise and odour
- Local improvements made (*acoustic damping materials, silencers fabricated, specialist external equipment mobilised & subsequently bought*)
- Scottish Water and CEC kept regularly informed
- Ongoing daily monitoring, noise levels recorded during daily site surveys

Community Engagement

- LLCC visit
- Scottish Business Pledge
- Staff Volunteering
- Charity events
- Provision of meeting space/community room
- Development of young persons & veterans
- University visits
- VIBES Finalist



Odour Specific Lookahead

- Redundant sludge dryer fully decommissioned and removed
- Revised Seafeld Working Plan in response to new WML issued by SEPA
- Short duration Polymer plant maintenance for sludge treatment
- Nutriox dosing resumes for Veolia's Esk Valley sewer network
- Digester 6 (cleaned) maintenance and recommissioning
- Digester 5 cleaning (from May), maintenance and recommissioning
- TH shut-down deferred to Autumn 2019
- Proactive digester cleaning & maintenance programme continues through 2019 (as advised at LLCC visit in Nov 2018)
- Further Veolia improvements to sludge assets & procedures
- Ongoing involvement with Water UK/WRc Odour Management Group



General Lookahead

- Support Scottish Water in response to Strategic Odour Review medium term implementation actions
- Veolia to deliver in excess of £1 million of investment maintaining Seafield assets over next 12 months
- BREXIT planning ongoing
- Hosting site visits for International Water Association Leading Edge Technology 2019 Conference, Institute of Water and other foreign dignitaries
- Preparing for Open Doors in Autumn 2019 (application submitted)
- Continue to plan and undertake odour sensitive activities in line with Odour Management Plan (OMP), as well as further refinement of OMP