

ODOUR ABATEMENT SYSTEM AT RINGSSEND WASTEWATER TREATMENT PLANT, RINGSSEND, DUBLIN

Odour Assessment

At the request of Black & Veatch Ltd, Bord na Móna undertook a comprehensive monitoring of the relevant sources to assess emissions from the WWTP at Ringsend. This involved odour analysis and chemical characterisation of sources.

The sources monitored included ancillary equipment for sludge dryers, sludge dryer exhausts and fugitive emissions from other sources on site.

Sludge dewatering equipment existing odour abatement on site were chemical scrubbing systems which during the monitoring programme were revealed to be underperforming.

After the monitoring programme was completed the client undertook refurbishment of the chemical scrubbing systems and requested Bord na Móna to tender for abatement of emissions from the Lammella Channels of the primary sedimentation tanks, which were identified as a significant odour source, an which were not at that time ventilated or treated.



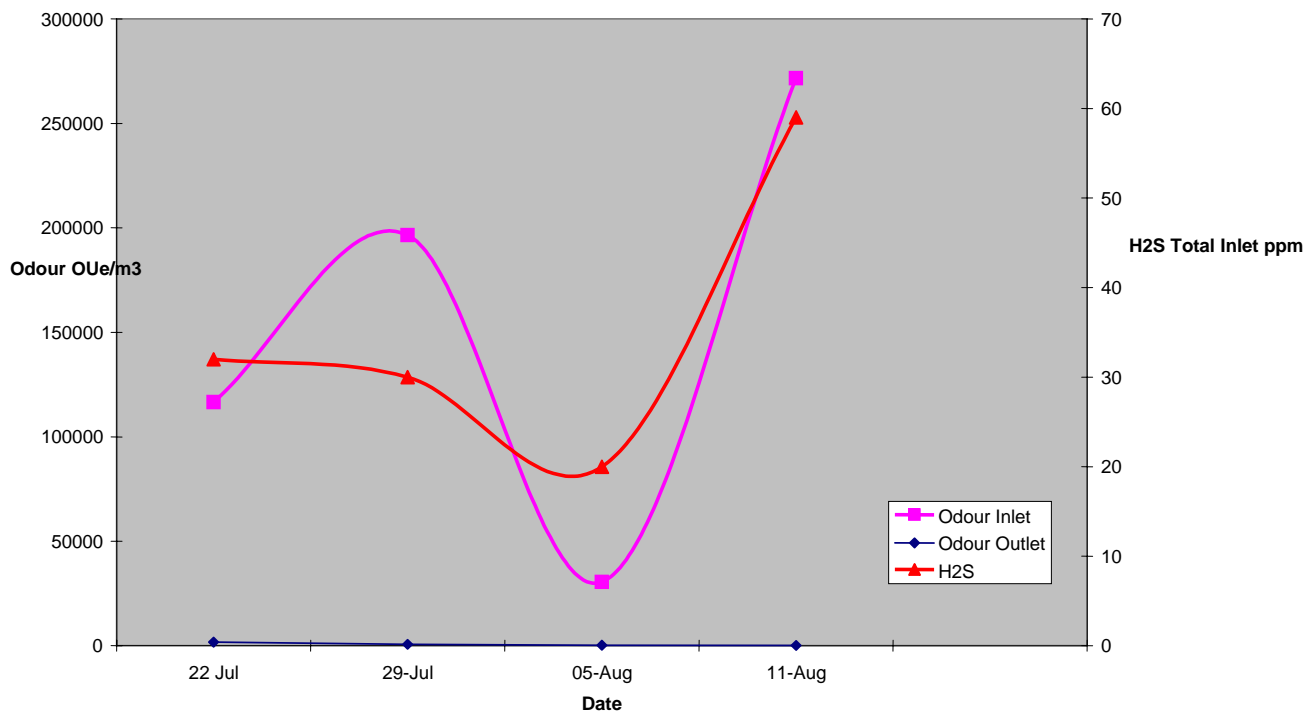
Technology

As there were 2 distinct Lamella channels to be treated the Bord na Móna solution was to install 2 MÓNASHELL skid-mounted modular biological filters each containing sufficient MÓNASHELL media designed to treat 1600m³ air/hr with a hydrogen sulphide load of 222ppm.

Performance

Both units were commissioned on the 25th of June 2004 and were validated over a period of 4 weeks.

PST1 Northside MONASHELL Validation



PST2 Southside MONASHELL Validation

