Storm Flow Operating Technique for Penrhyndeudraeth SPS 00655 and Penrhyndeudraeth WwTW 00557

Penrhyndeudraeth SPS 00655

The SPS weir setting at the SPS is 22.6 l/s (3.5 x DWF), under normal operation the **foul pumps** will pass forward at least 22.6 l/s for treatment at Penrhyndeudraeth WwTW 00557. If the **foul pumps** are overwhelmed the **storm pumps** will begin to run to fill the WwTW storm tanks (190 m3) for 2 hours (assuming they are completely empty) at 26.4 l/s. Once the storm tanks are full, telemetry will notify the SPS to inhibit the storm pumps. For the first 2 hours of a storm event the SPS will pass forward 49 l/s, after which it will drop to 22.6 l/s.

*Permit **CG0359101** regulates the CSO at Penrhyndeudraeth SPS 00655 and the **discharge of storm sewage.***

Penrhyndeudraeth WwTW 00557

The WwTW continuously treats raw sewage from the SPS to secondary treatment standards.

*Permit **CG0084501** regulates the continuous **discharge of secondary treated effluent** from Penrhyndeudraeth WwTW 00557.*

During storm events the storm tanks are filled by the SPS as detailed above. There is no discharge of settled storm sewage from the WwTW in normal storm operating conditions, all settled storm sewage is intended to be returned to treatment except in an Emergency. The storm tanks shall be emptied back into treatment as soon as practicable after the storm flows are reduced. In an emergency as defined as a power failure and/or a telemetry outage then the SPS will not be aware to inhibit the storm pumps so a discharge of settled storm sewage will occur from the WwTW.

*Permit **CG0084502** regulates the intermittent discharge of **settled storm sewage in an emergency** from Penrhyndeudraeth WwTW 00557.*

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