



Wastewater Treatment Plant for Burton Park housing estate

BACKGROUND:

The design of a WwTP at Burton Park for a population of 211.

Design Criteria:

Dry Water flow:	- 39.6 m ³ /day
Flow to full treatment (FFT):	- 39.6 m ³ /day
Influent BOD ₅	- 15.84 kg/day
Influent NH ₄ N	- 2.11 kg/day

Final Effluent Criteria:

BOD ₅ :	- < 20 mg/l 95%ile
Suspended Solids	- < 30 mg/l 95%ile
NH ₄ N	- < 20 mg/l

THE CHALLENGE:

At a small commercial site, the client faced a recurring problem: consistent power cuts that risked disrupting the performance of their sewage treatment system. They needed a solution that not only treated wastewater to a high standard but also provided peace of mind through proactive monitoring.

OUR SOLUTION:

We supplied the Model 100SHR sewage treatment plant, a proven design that consistently achieves effluent standards set by the Environment Agency. To address the issue of unreliable power, we installed a bespoke control panel fitted with a GSM alarm system.

The 100SHR provides robust biological treatment in a compact footprint, ideal for restricted sites.

The GSM alarm system ensures that any power loss or system fault is instantly communicated via mobile alerts, enabling rapid response without the need for constant on-site checks



THE OUTCOME

THE RESULTS:

- Continuous compliance: High-quality effluent maintained even with regular power interruptions.
- Operational security: Remote monitoring gave the client immediate visibility of plant status.
- Cost savings: Reduced need for routine inspections thanks to automated fault notifications.

WHY IT WORKS:

By combining the engineering reliability of the 100SHR with the smart connectivity of GSM alarms, we delivered a treatment solution that is both technically resilient and future-ready. The client gained not only an effective wastewater system but also the reassurance of knowing that they're in control—even when the power isn't.



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