



## Refurbishment works at Scottish Water in Kirkcowan

A relatively small existing treatment works (549 pe) that required complete refurbishment, the following equipment was supplied by WPL for the duration of the refurbishment:

- 2 off ST500 (Steel) SAF units (2 off units required to treat the 6 x DWF as requested by SEPA)
- 1 off HB50 Transportable Lamella settling unit/primary tank.

### Design parameters (original)

	Unit		Comment
Population Equivalent	No	549	Domestic only, no trade
DWF	1/sec	2.9	
Flow to Full Treatment	1/sec	4.9	Instantaneous pumped flow to be treated by SAF plant
Influent BOD	Kg/day	32.9	At ADF
Influent SS	Kg/day	41.2	At ADF
Influent NH <sub>3</sub> -N load	Kg/day	4.4	At ADF
Primary tank design effluent BOD load	Kg/day	25	N/A
Primary tank design effluent SS load	Kg/day	22.2	N/A
Primary tank Effluent NH <sub>3</sub> -N	Kg/day	4.4	N/A
Works Consented Effluent BOD load	Mg/l	20	95%ile composite samples
Works Consented Effluent SS load	Mg/l	30	95%ile composite samples
Effluent NH <sub>3</sub>	Mg/l	N/A	Not considered for sizing plant

During the rental period the units performed without fault and satisfactorily achieved the required discharge consent standard of 60:40 (BOD: SS).

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