

# Expected Final Effluent Quality – Trade Effluent

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## Treatment System:

- **Settlement Lagoon:** For primary sedimentation of coarse particles.
- **Lamella Separator:** Water transferred to a Lamella Separator for fine particle removal.

## Expected Effluent Quality:

Parameter	Expected Final Effluent Concentration	Treatment Method / Notes
Suspended Solids (SS)	60–90 µg/L (typical)	Settlement lagoon + lamella separator; lower concentrations may be achievable
Other substances	Not expected / negligible	Rainwater runoff; no significant organic load or chemical contamination anticipated
BOD	Not applicable	Rainwater, no organic source
Ammonia	Not applicable	Rainwater, no organic source

## Notes:

- The figures are based on typical performance of a Lamella Separation System.
- The treatment system is designed solely to remove suspended solids (silt and sediment) from the rainwater run off collected on site. No domestic sewage or chemical trade effluent is present, so additional treatment for organic or chemical pollutants is not required.
- If required, samples can be taken from the treatment system, however, as the treatment is for sediment removal only, testing is not currently planned.
- Regular cleaning of the settlement lagoon and lamella separator will be undertaken to maintain optimal performance.
- The discharge poses extremely minimal environmental risk as the treated water contains only residual suspended solids at very low levels.