# ISO ETV 14034 Verified OGS MTDs:

***Sediment Scour and Light Liquid Test Results, and other relevant operational parameters***

| Vendor | Initial Verification | Tested Model | Suspended Sediment Effluent Concentrations (mg/L) by Surface Loading Rate (L/min/m²) | | | | | Light Liquid Retention (%) | Bypass Rate (L/min/m²) | Head Loss |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 200 | 800 | 1400 | 2000 | 2600 | | | |
| StormTrap | 2023 | StormSettler 4 | 1.2 | 1.2 | 4.4 | 7.2 | 1.2 | not tested | 1419 | 142 and 253 mm at 1419 and 4032 L/min/m², respectively |
| Rainwater Management Ltd. | 2022 | DM1200 | 0.4 | 3.4 | 2.0 | 0.0 | 0.4 | not tested | 1077 | 97 mm @ 2610 L/min/m² |
| Rainwater Management Ltd. | 2022 | DM1200-OS | 0.4 | 3.4 | 2.0 | 0.0 | 0.4 | 99.9% | 600 | 69 mm @ 2426 L/min/m² |
| HydroWorks | 2021 | HydroDome HD3 | 0.5 | 0.7 | 0 | 0 | 0.11 | 99.7% | see note 1 | see note 1 |
| Hydro International | 2019 | Downstream Defender | < 1 | < 1 | < 1 | < 1 | < 1 | not tested | no internal bypass | 255 mm @ 2564 L/min/m² |
| Bio Clean Environmental Inc. | 2019 | SciCLONE | 0 | 0 | 0 | 0 | 3.8 | not tested | diversion weir; no internal bypass | see note 1 |
| Hydoworks | 2018 | Hydrostorm 4 | 22.4 | 28.5 | 20 | 19.1 | 24.4 | 88.3% | 1400 | see note 1 |
| Hydro International | 2018 | First Defense High Capacity OGS | 0 | 0 | 11 | 2 | 0 | not tested | 1058 | 111 mm @ 1913 L/min/m² (note 2) |
| Contech | 2017 | CDS-4 | 1.8 | 6.5 | 8.2 | 11.2 | 309.3 | 97.6 | partial bypass, see note 1 | see note 1 |
| Imbrium Systems Inc. | 2017 | Stormceptor EF4 | 4.6 | 0.7 | 0 | 0.2 | 0.4 | not tested | 1135 | 262 mm @ 2530 L/min/m² |
| Imbrium Systems Inc. | 2017 | Stormceptor EFO4 | 4.6 | 0.7 | 0 | 0.2 | 0.4 | 99.1% | 535 | 104 mm @ 2530 L/min/m² |
| Next Stormwater Solutions | 2016 | SDD3 | 0 | 9.3 | 4.7 | 24.3 | 10.5 | 91.0% | see note 1 | see note 1 |

**Note 1**: All units tested under ISO 14034 would have third party verification of bypass rates and head loss. Those not listed in the table can be obtained from the vendor. 'Partial bypasses' do not fully bypass the sump or other areas where sediment is deposited, rendering them more prone to scour during surface flow rates up to or greater than those tested.

**Note 2**: Head loss declines at surface loading rates above 1913 L/min/m²

**Note 3**: Grey highlighted values exceed the Canadian Council of Minister's of the Environment 25 mg/L TSS guideline for the receiving water protection (aka Canadian Water Quality Guidelines).