

Specifications

A. Must be independently tested to the 2013 NJDEP Laboratory Protocol or ISO 14024:2016 (ETV Canada).

B. Any testing performed by the manufacturer is unacceptable to demonstrate an alternate equal.

C. Field Testing is unreliable, site and storm specific, and subject to compounding equipment and analytical errors and therefore is unacceptable as verification of an alternate equal. TARP verification as per NJDEP is testing consistent with the 2013 NJDEP laboratory protocol.

D. The separator must be designed based on the following criteria:

Flow Criteria	
Water Quality Flow Rate (cms)	
Peak Design Flow Rate (cms)	
HydroStorm Model	

TSS Removal Criteria	
Annual TSS Removal (%)	
ETV TSS Distribution	
City of Toronto	
OK110 Sand	
Other	

Notes:

A. Headloss K factor of 1.04 for hydraulic gradeline calculations

B. Sump depths shown are minimums. Additional depth can be added for site specific capacities

C. Multiple inlet pipes allowed

D. Drops allowed

E. Inlet invert elevations should be the same or higher than the outlet invert elevation. Inlet can be up to 300 mm lower than outlet if pretreatment area is omitted but 300 mm must be added to sump depth to maintain overall treatment volume.

F. Solid Cover shown. HydroStorm can be designed with an inlet grate if required.

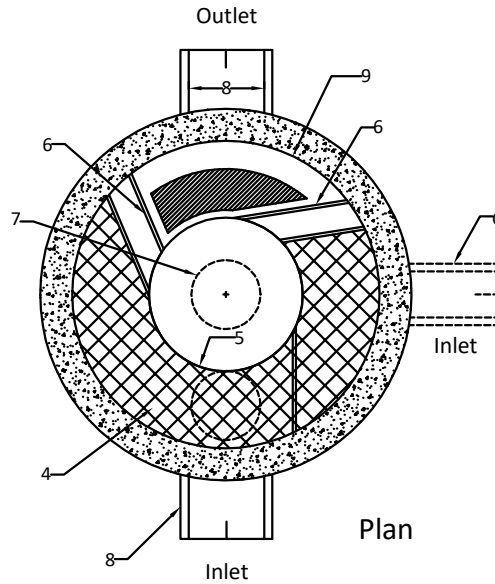
G. Oil capacities given are spill capacities. Oil should be removed from the unit once an oil depth of 50 mm or more is measured in the inner chamber.

H. Sediment depths are maximum holding capacities and not recommended capacities for regular maintenance. Maintenance is recommended annually or once every 2 years.

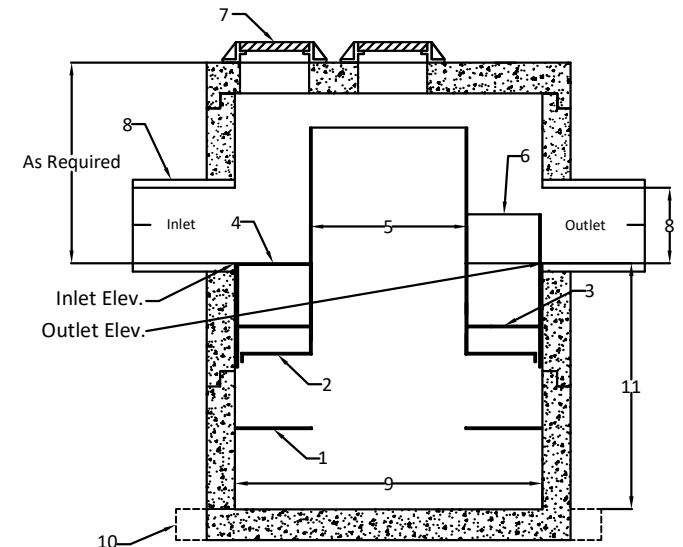
I. Capacities are rounded down to nearest 5 L or 0.05 m³

J. Base Extensions not provided on standard units larger than the HS 6. Extensions can be provided if required due to groundwater/buoyancy concerns at the request of the engineer of record.

HydroStorm by Hydroworks, LLC
 Canada Patent #3,085,711
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 888-290-7900



Plan



Profile

HydroStorm Components

1. Perforated Scour Plate
2. Outlet Disk
3. Pretreatment Disk
4. Pretreatment Grate
5. Inner Chamber
6. By-Pass Weirs
7. Frame and Cover (1-2)
8. Inlet and Outlet Pipes
9. Structure Diameter
10. Base Extension (HS4 - HS6)
11. Sump Depth

HydroStorm Dimensions / Capacities *

Model	Diameter (m) (9)	Sump Depth (m) (11)	Inner Chamber Diam. (mm) (5)	Max. Pipe (mm) (8)	Total Volume (L)	Oil Spill Volume (L)	Sediment Volume (m ³)
HS 3	0.9	0.9	450	450	600	155	0.35
HS 4	1.2	1.2	600	600	1420	375	0.85
HS 5	1.5	1.5	750	750	2780	635	1.80
HS 6	1.8	1.8	900	900	4800	1030	3.20
HS 7	2.1	2.0	1050	1050	7080	1560	4.60
HS 8	2.4	2.1	1200	1200	9960	2330	6.25
HS 9	2.7	2.4	1350	1350	14410	3215	9.30
HS 10	3.0	2.7	1500	1500	20015	4285	13.15
HS 12	3.6	3.3	1800	1800	35225	7100	23.75

* Not all models are available in all locations

Hydroworks HydroStorm

PROJECT:

LOCATION:

REVISION DATE: 8/24/2022

