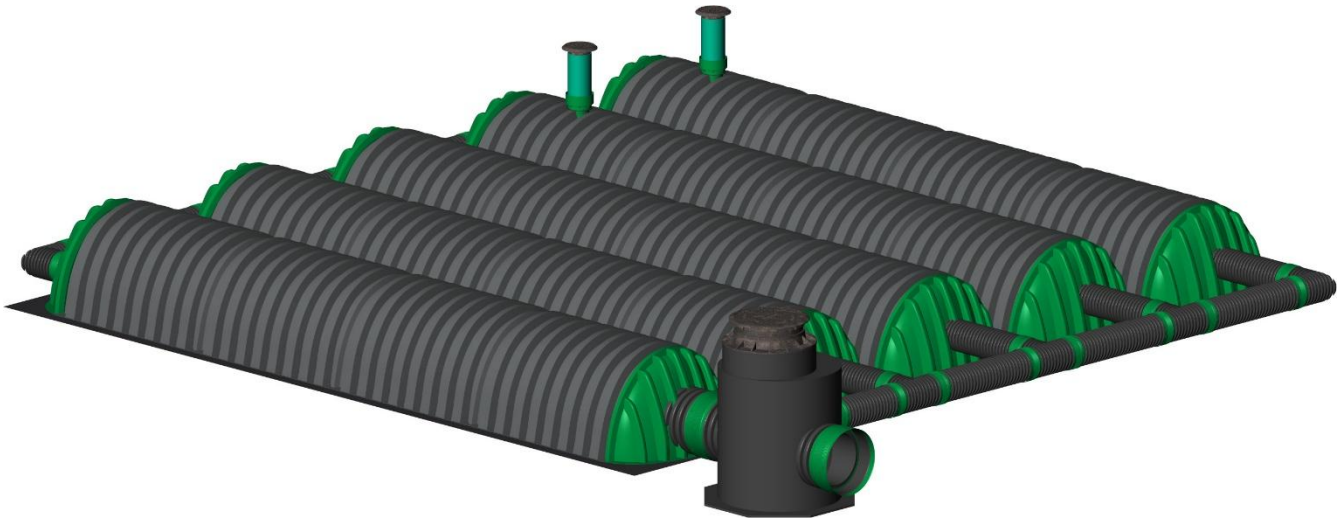


HYDROSTOR^{MD} SETTLING ROW

MAINTENANCE GUIDE

OPERATION OF THE HYDROSTOR SETTLING ROW

The Hydrostor settling row receives the first-flush flow. An upstream bypass manhole directs excess flow to the other rows while allowing access to the sedimentation row for inspection and maintenance. A double layer of woven geotextile filters and captures sediments within this row, while a non-woven geotextile prevents sediment from escaping around the perimeter of the chambers. To operate at full efficiency, the system must be serviced regularly. Specialized compagnies, such as Soleno Services[1], can inspect and maintain this type of equipment.

[1]Contact your Soleno representative for more information about the services offered by Soleno Service or visit our website at **www.soleno.com**.

STEPS

1. Inspection frequency
2. Inspection
3. Maintenance

STEP 1
INSPECTION FREQUENCY

The environment in which the settling row is installed greatly influences the frequency of inspection and maintenance. Therefore, it is recommended to inspect the system every three months during the first year to prevent excessive accumulation of debris that could compromise the system's performance. It is strongly advised to carry out the first inspection as soon as the installation is complete.

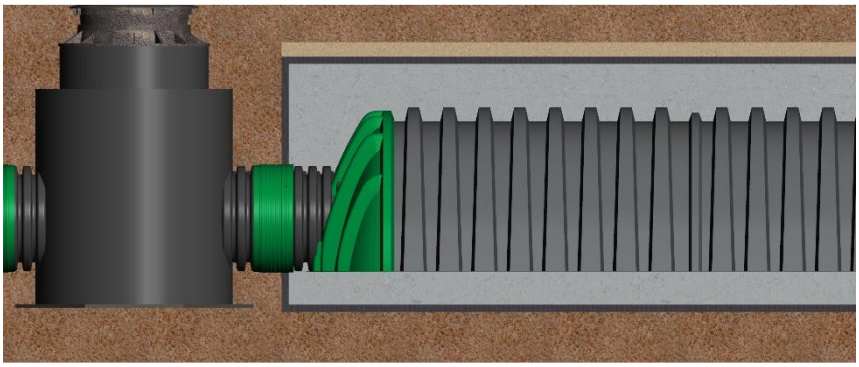
Subsequently, based on the data collected during the first year of operation, an inspection frequency can be established.

STEP 2
INSPECTION

Interventions on the Hydrostor settling row require confined space work. For worker safety, all local regulations governing such operations must be followed.

a) If access shafts are present, remove the cast iron cover to check for sediment accumulation, allowing inspection to be carried out from the surface. Otherwise, remove the cast iron cover of the access manhole and check for sediment buildup.
b) Place carefully a surveying rod (or any other measuring device) on top of the sediments.
c) Read the distance between the top of the sediments and the top of the cast iron cover.
d) Subtract this distance from the initial distance (measured when the system was started). The resulting value is the sediment depth.
e) Repeat steps 2a) to 2d) for each access shaft and/or access manhole.
f) If the sediment height exceeds 75mm (3in), proceed with maintenance.
g) Replace the access covers once the inspection is complete.

Access manhole, connection and isolation row



STEP 3
MAINTENANCE

Interventions on the Hydrostor settling row require confined space work. For worker safety, all local regulations governing such operations must be followed.

a) Remove the cast iron cover(s) from the access manhole(s).
b) Insert a high-pressure cleaning nozzle (with rear-facing jets) into the manhole.
c) Position the nozzle horizontally inside the sedimentation row and let it advance to the end of the row by sliding its hose inside the row (the nozzle is self-propelled by the pressure directed toward the manhole).
d) Once the nozzle reaches the end of the isolation row, gently pull its hose to bring the sediments resuspended by the nozzle's pressure back toward the access manhole, while simultaneously pumping out the manhole's contents.
e) If debris are still present at the bottom of the row, repeat steps c) and d).
f) Visually inspect the overall condition of the system to detect any anomalies or damage.
g) Replace the access covers.

Important: The disposal of residues must comply with federal, provincial and local regulations.



Example of a high-pressure cleaning nozzle with rear jets

An example of a maintenance sheet that the inspector will use during the inspection if the settling row can be found in Appendix A.

SOLENO
MASTERING WATER SUSTAINABLY

APPENDIX A
Maintenance sheet

MAINTENANCE SHEET HYDROSTOR[MD]

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Location of the system: _____

Resp. for inspection: _____

Date : _____

System type: _____

System dimension: _____

SYSTEM OBSERVATION

Time elapsed since last maintenance (months): _____

Sediment thickness at the bottom of the unit (mm): _____

Presence of waste and debris (Y/N): _____

Damage to the unit (Y/N): _____ **Details:** _____

Estimated flow rate at the system inlet (if available) (L/min): _____

SITE OBSERVATION (comments)

Sediment accumulation on the surrounding ground: _____

Visible erosion near the system: _____

COMPLETED MAINTENANCE

Removal of waste and/or debris (Y/N): _____ ***Details:*** _____

Damage to the geotextiles (Y/N): _____ ***Details:*** _____

Sediment removal (Y/N): _____ ***Estimated qtt:*** _____

Minor reparation of the system (Y/N): ***Details:*** _____

NOTES: _____