



# Intelligent Stormwater Treatment for a Greener Future

## Engineered Stormwater Solutions

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For New Development, Redevelopment, Retrofit and  
Industrial Projects

Hydro provides superior stormwater treatment systems that enable you to go beyond the bare minimum of compliance and actually make the world's water cleaner. Only Hydro delivers proven, scalable, environmentally-friendly treatment systems backed by decades of engineering excellence and scientific rigor.

## 1 CUSTOMIZED PRODUCTS

### Treatment:

- Hydrodynamic separators
- Filtration systems
- Second generation baffle boxes

### Flow Control:

- Flood/volume control devices
- Outlet flow control for detention systems
- Inlet flow controls for storm drain

## 2 SERVICE OFFERINGS

### Inspections & Maintenance:

- Service teams will keep your systems clean to maximize performance and extend the life of your device.

### FREE Pollutant Removal Testing

- Your industrial stormwater. Our filter. Take our product for a test drive and get a free result report.

### Pilot Trials

- Industrial sites can now test drive our products pre-purchase to validate water quality improvement.

## 3 PERMIT SECTORS

Post development BMPs for your specific site needs.

### MS4:

- Municipal separate storm sewer system permits

### MSGP:

- Industrial/multi-sector general permits

### Individual

- Individual industrial permits

No two stormwater projects are ever the same, so you need to have confidence in your system and the company backing it. Work with Hydro and:

- Partner with experienced engineers to help you size, scale and feel certain you've chosen the right product

- Get expertly designed solutions that fit your specification and your budget

- Feel assured your system will meet site specific regulations for stormwater treatment



You're entrusted with an enormous responsibility. You can feel proud about every Hydro system you put in the ground because, like you, we're serious about improving water quality and the environment. Our passion drives us to constantly innovate, creating smarter engineering technologies that allow you to make the world's water cleaner one site at a time.



## Pollutant Removal

Target Pollutant	Hydro Up-Flo® Filter	Hydro Downstream Defender®	Hydro First Defense®	Hydro DryScreen®	Hydro Reg-U-Flo®
TSS	✓	✓	✓	✓	
Fine TSS	✓				
Trash	✓	✓	✓	✓	
Hydrocarbons	✓	✓	✓		
Nutrients	✓			✓	
Total metals	✓	✓	✓		
Flow Control					✓

Highest Treatment Level

Lowest Treatment Level



Hydro International is certified to: ISO 9001:2008  
Certificate No: LRQ 0961366 and ISO 14001:2004  
Certificate No: LRQ 4004540.

## Hydro Downstream Defender®

### Advanced Hydrodynamic Vortex Separator

#### HIGH-LEVEL TREATMENT IN A SMALL FOOTPRINT

**Benefits:** Saves site space while providing a strong treatment level and high floatable capture. Can handle high peak flows while functioning as either pretreatment or as a standalone device.

**Target Pollutants:**

- TSS
- Trash
- Hydrocarbons



**Ideal Site:** Smaller footprints that need to treat large drainage areas. Also works well on sites with tail water or tidal conditions.

**Technology:** Our most advanced vortex separator that uses unique flow-modifying internal components to boost performance. Proven to prevent pollutant washout, offers 100% capture of floatable trash.

## Hydro Up-Flo® Filter

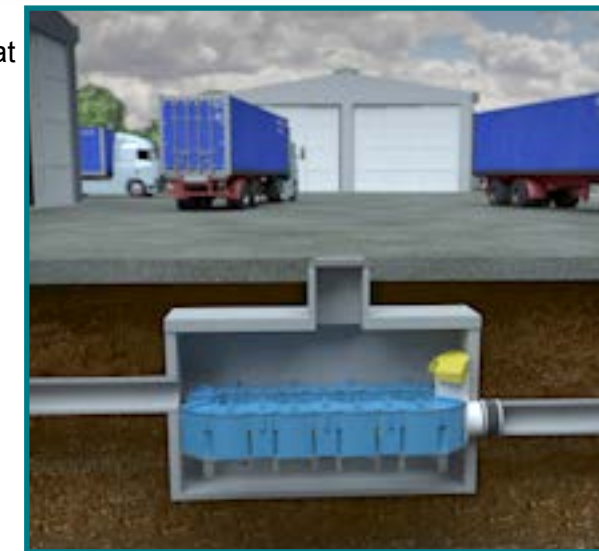
### High Rate Filter

#### HIGH PERFORMANCE, LOW MAINTENANCE

**Benefits:** A high performance, low maintenance filter option that offers higher loading rates and longer media life so you'll get quality water for longer periods between servicings.

**Target Pollutants:**

- Fine TSS
- Trash
- Hydrocarbons
- Nutrients
- Total metals



**Ideal Site:** Industrial sites, sites contributing runoff to wetlands/protected regions or, any area requiring the highest quality of stormwater treatment.

**Technology:** Developed with funding from the EPA, this fluidized bed filtration system can be customized to meet NPDES requirements specific to a municipality or state.

## Hydro First Defense®

### Hydrodynamic Vortex Separator

#### A SIMPLE SOLUTION FOR YOUR TRICKIEST SITES

**Benefits:** Works easily with large pipes, multiple inlet pipes, inlet grates and allows for varying pipe angle orientation. Additionally, a high capacity bypass enables conveyance of high peak flows with minimal risk of washout.

**Target Pollutants:**

- TSS
- Trash



**Ideal Site:** Shallow sites, small urban sites or, larger sites where design restraints call for a highly adaptable treatment device.

**Technology:** An enhanced vortex separator proven to prevent pollutant washout during high peak flows.

## Hydro DryScreen®

### Next Generation Baffle Box

#### SEDIMENT REMOVAL AND SCREENING IN ONE DEVICE

**Benefits:** Supported over a decade of screening technology expertise, Hydro is pleased to introduce a versatile screen and sediment-removing device designed to capture trash, debris and organic material (preventing nutrient pollution). Also, because head loss is minimal, it can fit onto almost any new or preexisting drainage line.

**Target Pollutants:**

- TSS
- Trash
- Nutrients



**Ideal Site:** Shallow sites and regions where large peak flows, large pipe sizes, and low head loss must be accommodated.

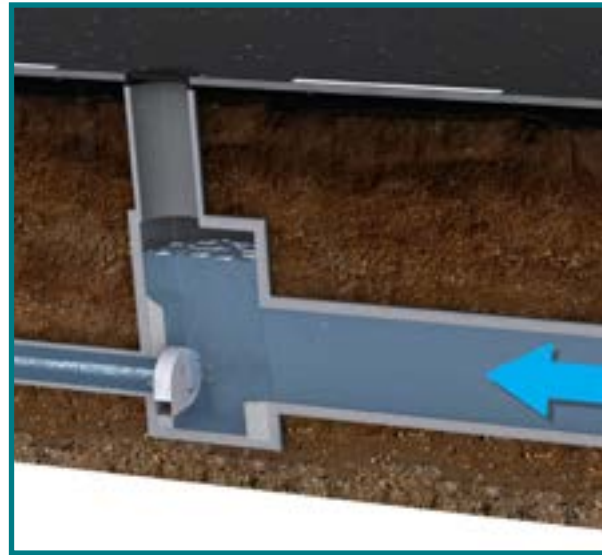
**Technology:** Enhanced flow-distribution technology spreads and slows the flow at the inlet to allow more solids to settle and reduce the effects of screen blinding.

## Hydro Reg-U-Flo®

### Vortex Flow Control

#### Reduce Storage Needs by Controlling Flow

**Benefits:** Helps minimize detention footprints enabling you to save up to 50% on project costs. Regulates the flow of runoff into sewer systems during storm events.



**Ideal Site:** Sites that require infrastructure for flood protection: residential, urban and industrial environments.

**Technology:** Uses vortex flow and a unique discharge curve to restrict flow, preventing blockages and reducing runoff detention by volumes of up to 30%.

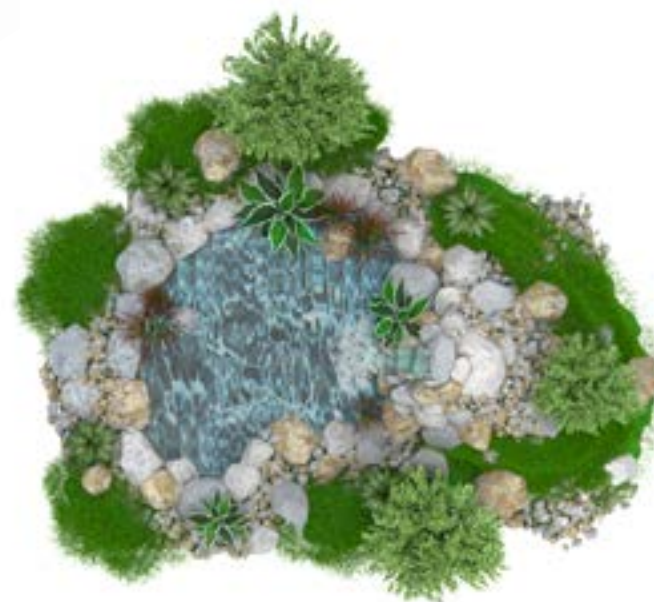
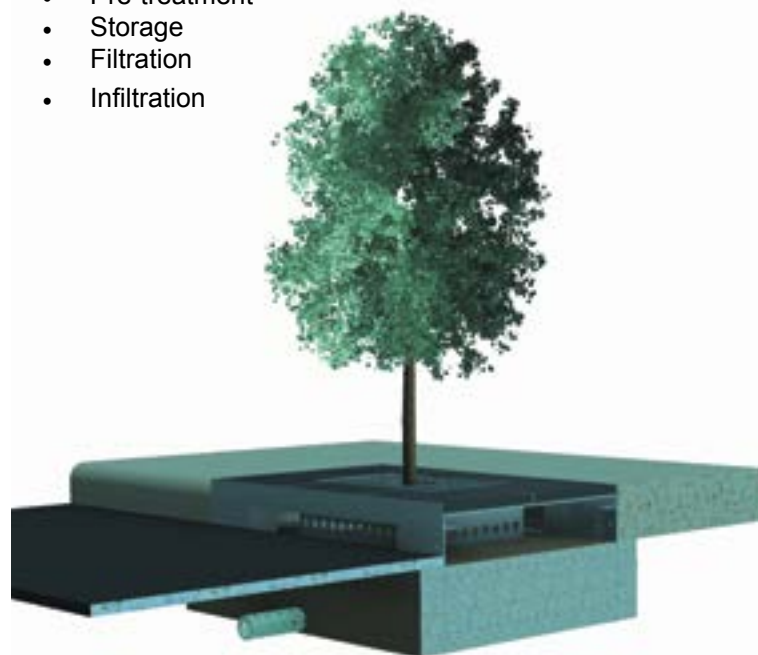
## Hydro Products work well with LID systems

### Smart Engineering Lends Nature a Hand

Space can be a luxury not available on every site. Hydro's structural BMPs can offer site flexibility while easily assimilating into a variety of LID projects.

Works With:

- Pre-treatment
- Storage
- Filtration
- Infiltration



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## INSPECTION & MAINTENANCE

[HYDRO-INT.COM/SERVICE](http://HYDRO-INT.COM/SERVICE)

Nobody maintains our systems better than we do. To ensure optimal, ongoing device performance, be sure to recommend Hydro International as a preferred service and maintenance provider to your clients.

- Inspections
- Replacement filter media
- Cleanouts

CALL 1 (800) 848-2706

FOR AN INSPECTION



## INDUSTRIAL POLLUTANT REMOVAL & PILOT TESTING

Send us your industrial stormwater and we'll run it through our filter and provide a free pollutant removal performance test.

REQUEST YOUR FREE TESTING KIT

AT [HYDRO-INT.COM/SAMPLEKIT](http://HYDRO-INT.COM/SAMPLEKIT)

For full confidence that our solutions will work on your site, we'll let you do a dry run. Then you'll know for sure that we can help you improve your water quality.

### Stormwater Solutions

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