



Water Management:

# SuDS & Stormwater Management (Hydro)

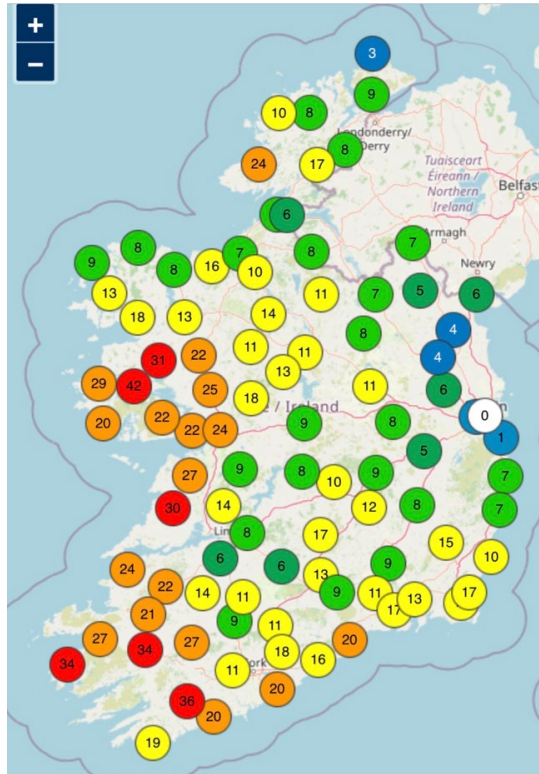


# What is SuDS?

- Mimic natural drainage
- Manage water on the surface
- Manage water close to source



# Tuesday March 21<sup>st</sup> 2023



## MAAM VALLEY ACS ×

22:30 21/03/2023

### Summary

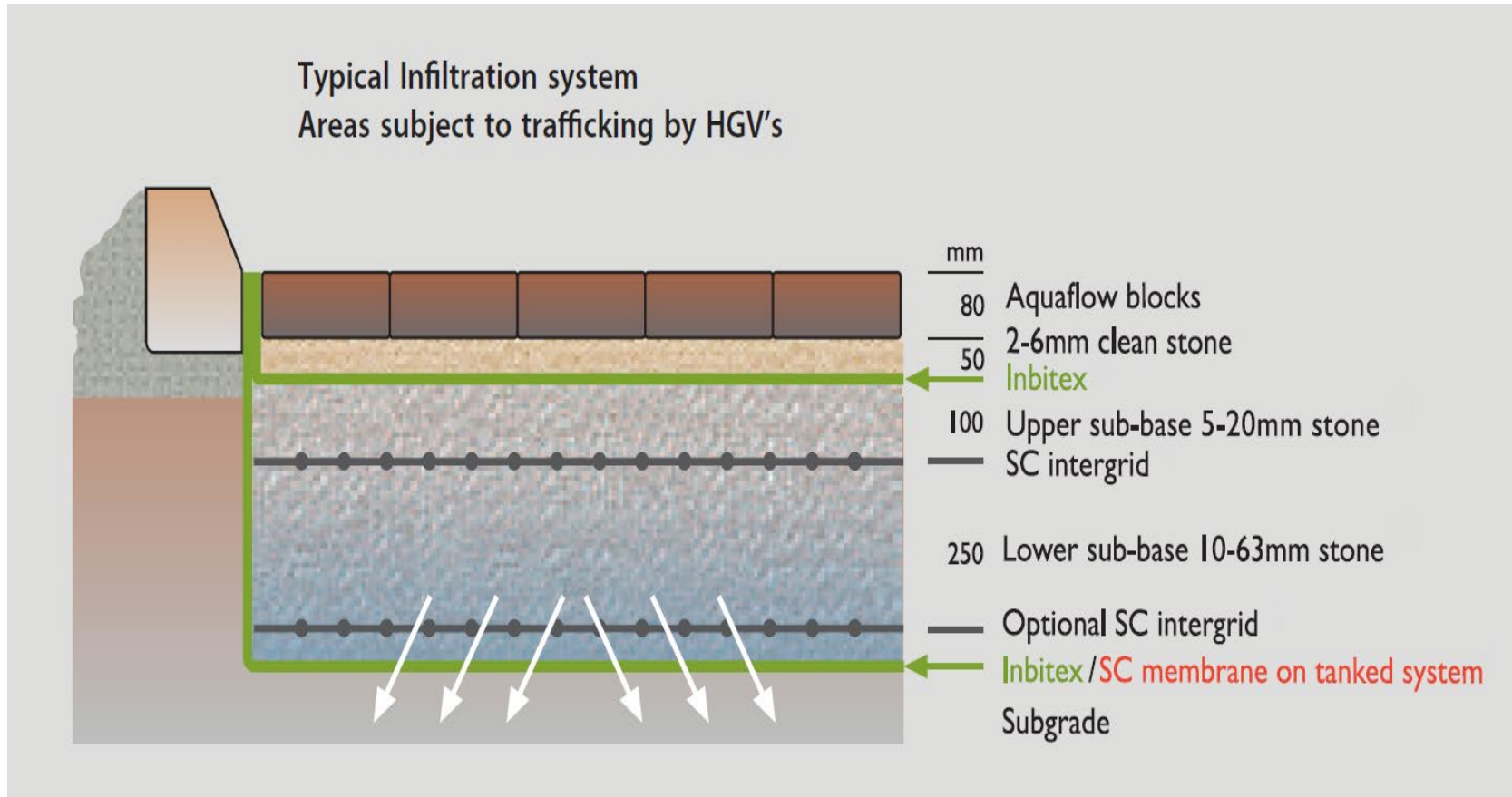
### Forecast

Temperature	<b>10.1</b>	°C
Humidity	<b>89</b>	%
Rainfall Accumulation	<b>42.2</b>	mm
Pressure (at station height)	-	hPa
Wind Speed	-	knots
Wind Speed	-	km/h
Wind Direction	-	deg
Wind Direction	-	compass
Dew-Point Temperature	-	°C

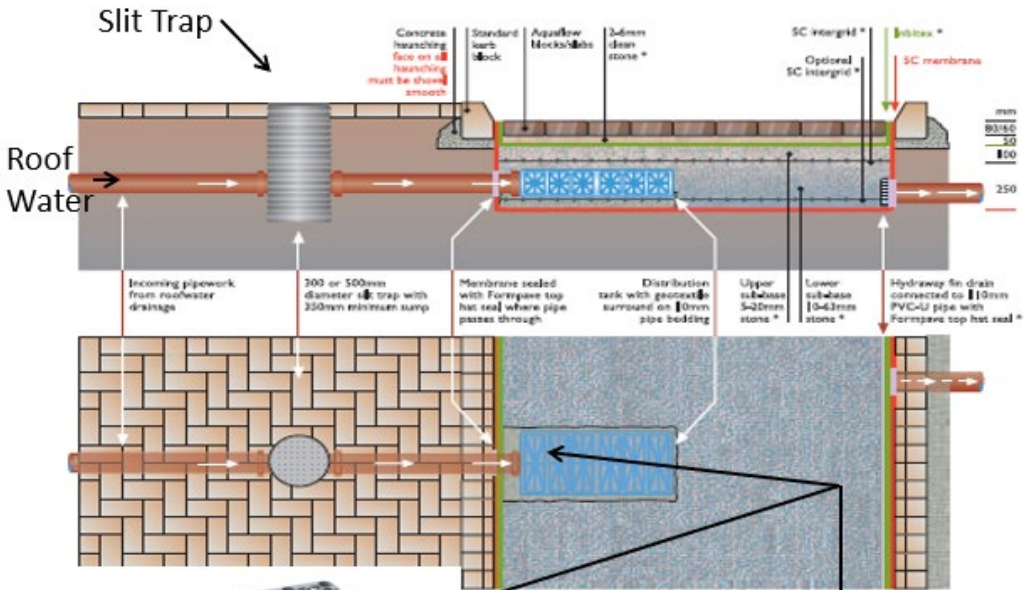
[VIEW FULL OBSERVATION](#)



# The Main Attenuation Stone Build-up



# Adding Roof Water



Distribution Tanks





**Mary Geary Crèche  
(Carrigtwohill – Co. Cork)**

# Mary Geary Crèche

Roadstone customer engagement process:

**01**

In-house CPD  
– Ray Keane &  
Associates

**02**

Full complimentary  
Design – Formpave.

**03**

Contractor  
Engagement –  
John Curran and  
Sons.

**04**

Supply of all  
relevant  
products.



# SuDS Case Study – Aras Chill Dara

- Aras Chill Dara sustainable energy Ireland building of the year 2006
- 21,000m<sup>2</sup> car park





# Hydro International

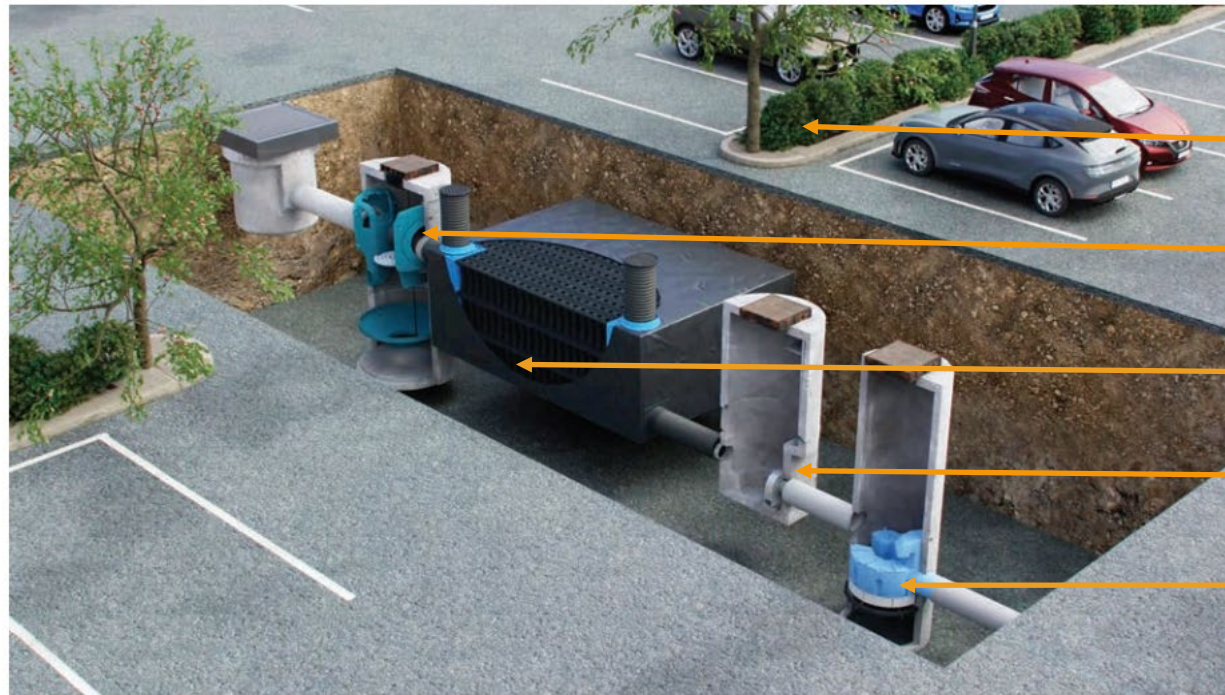
- Hydro International now a CRH company
- Hydro and Roadstone – Integrated Stormwater Management Solution
- Hydro key products supplied in Ireland

Vortex Flow Control

Geocellular Storage/Infiltration System

Hydro BioFilter® - Biofiltration System





## Stormwater Products

Hydro Biofilter™

Downstream Defender® Select

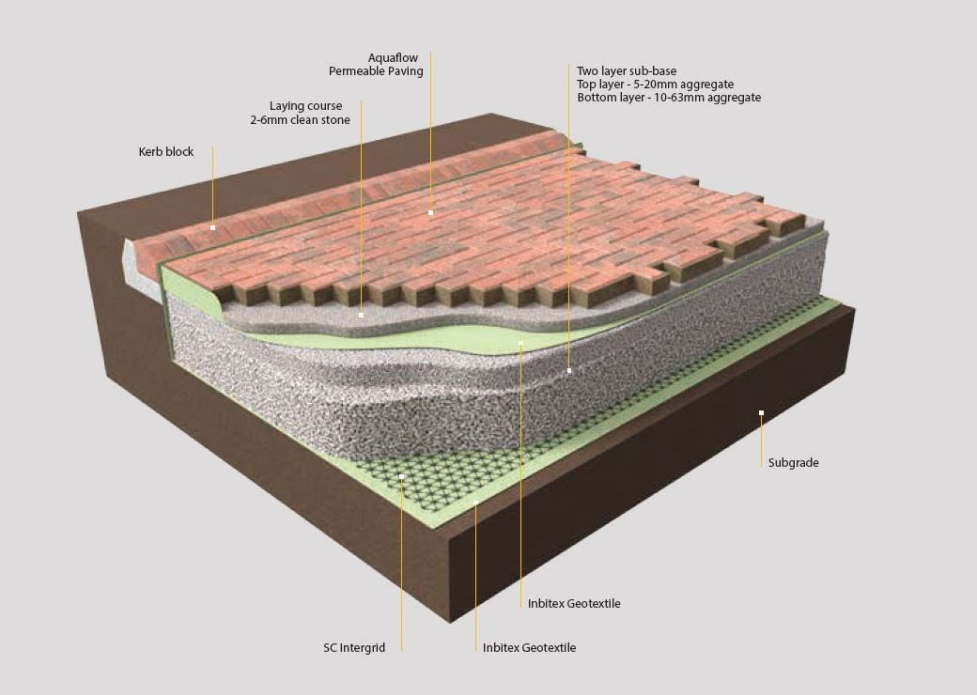
Stormbloc® Optimum

Hydro-Brake® Optimum

Up-Flo® Filter



# Integrated Stormwater Management Solutions



Roadstone AquaFlow Permeable Paving



Hydro's Stormwater Management products



# Hydro-Brake® Optimum Vortex Flow Control

- Tailored water quantity management for surface, foul or combined water
- Self-activated and precision-engineered
- Hydro-Brake® Optimum delivers effective protection from upstream and downstream flooding as a part of SuDS.



# Stormbloc® Optimum – Geocellular System

- Store or infiltrate surface water and stormwater effectively.
- Comprises two resilient geocellular storage systems that provide underground storage and infiltration of surface water runoff
- Range is modular and easily customisable



Stormbloc®



Stormbloc® Extra



Stormbloc® Inspect



# Hydro Biofilter™ - Biofiltration System

- Soil and engineered filter media treats assortment pollutants from surface water runoff
- Optimised for high volume flow while retaining high stormwater pollutant removal efficiencies
- Removes trash and coarse debris down to particulate and dissolved metals and nutrients

