

# CASE STUDIES

## Coyote Creek Townhomes, Surrey BC: Stormwater Management System



### Design Requirement

To install a below-ground infiltration system rated for fire truck loading (HS-25) under a Laneway of Coyote Creek townhouse development in Surrey, BC. These tanks were designed to promote ground water recharge and minimize the hydraulic loads in the sewer system during storms to prevent flooding.

### The Solution

BARR Plastics Inc supplied a Graf Ecobloc stormwater management system. Ecobloc is a single piece interlocking modular system with 95-97% void ratio to minimize excavation volume and installation time. High vertical & lateral strength of the modules allow for installation depths of up to 5 meters or 14 layers with heavy duty lorry-bearing loading capacity of HS-25. Local availability of the product and no assembly of the block required for modules, Ecobloc proved to be a convenient and cost-efficient option for the developer and contractor.



### Project Team

Supplier: BARR Plastics  
Developer: Anthem Properties  
Engineer: WSP  
Contractor: Mainland Civil Site Services Inc.

### Specifications

System Size:  
33.6m L x 4.0m W x 0.68m H (Tank #1),  
27.2m L x 4.0m W x 0.68m H (Tank #2)  
Tank Volume: 86.78 m<sup>3</sup> (Tank #1),  
70.25 m<sup>3</sup> (Tank #2)  
Loading: HS-25/60t  
Application: Infiltration

### BARR Product

Ecobloc Inspect flex



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