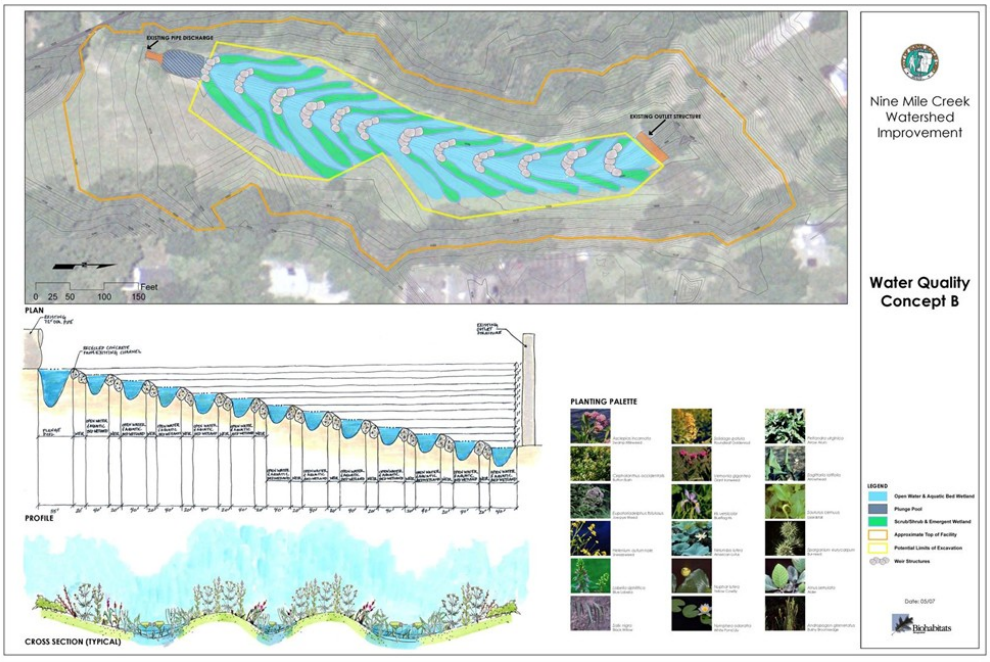
Langerdale Basin Retrofit
South Euclid, OH

Project Type: *Wet Extended Detention (Retrofit)*

Description and Size: A 64-year old concrete retention basin in South Euclid was modified to help alleviate downstream flooding and provide water quality benefits to Nine Mile Creek. This 10 acre dry basin was reconfigured into a wet extended detention basin. The concrete swale was replaced with a series of small ponds (weirs with wetland pools). These wetland pools will slow, filter and store water to help minimize downstream flooding. In addition, the two acre valley and adjacent eight acres of woodlands also were planted with 13,000 native plants. Neighbors are calling this Nine Mile Marsh – and are excited about the potential increase in bird migration in this area.

Design: The South Euclid City Engineer and Euclid Creek Watershed Group came up with the idea. Biohabitats, Inc. was hired to complete the environmental design work.

Cost: The cost of the project was $1.2 million. The City of South Euclid paid $530,000 and the remainder was grants and loans from the Ohio Public Works Commission.



Maintenance: The City of South Euclid owns the property and will provide regular maintenance to the site. They are anticipating a much lower maintenance cost because of the design and the fact that there is no longer a need for mowing.

Application: This type of project is ideal for dry detention basins.

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