

KOREN DEVELOPMENT COMPANY, INC.

Greenspring Quarry South Tributary Stream Restoration

Baltimore County, Maryland



A previously channelized stream now functions naturally and provides an attractive amenity in a community that was once a limestone quarry.

A large limestone quarry was to be converted into a residential and commercial development. In decommissioning quarry operations, the Maryland Department of the Environment required that a tributary on site be restored. The South Tributary had

previously been channelized to prevent flooding and to keep it out of the way of quarry operations. Its restoration required a totally new plan form, cross section and profile. The design had to be scientifically sound and developed in a timely manner so it would not hinder progress of the development.

Biohabitats worked closely with the site planners and engineers to obtain the necessary riparian area and alignment for the South Tributary. We also worked closely to establish the proper location and elevations for storm drain outfalls, sewer lines, road crossings and an innovative cold water discharge from the proposed lake.

Using comprehensive measurements taken from a reference reach, Biohabitats designed the channel to look and function naturally. Details for natural, in-channel structures such as gradual boulder steps and various downed log features were also developed.

Biohabitats teamed with Meadville Land Service (MLS) and Ecological Restoration and Management (ER&M) to provide the construction and planting services. MLS' attention to detail and ecologically oriented construction practices helped ensure proper installation of the natural log and boulder structures.

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conservation planning
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