

# Eden Farms/Willow Pond Stormwater Management Facility Retrofit and Stream Restoration

## **Background:**

Willow Pond is located in the Eden Farm subdivision adjacent to Sunshine Way and opposite Eden Farm Circle in Westminster. The existing pond was constructed as a lagoon for a canning factory that was in operation from the 1940's to the 1970's. The existing dam ran parallel to a tributary to the North Branch of the Patapsco River. When the pond was constructed, the stream was relocated and pushed against the right valley wall. The pond footprint has impacted the historic stream valley bottom and eliminated much of the stream's natural floodplain.

## **Scope of Work:**

The Bureau of Resource Management in partnership with the City of Westminster retrofitted the existing pond, making it smaller in surface area, but deeper with water quality management. The project implemented an innovative gravel lens system that will filter water through gravel and underdrains, theoretically reducing the temperature. The project also included 1,700 linear feet of stream restoration along with restoration of the natural floodplain.

RK&K was awarded the design contract in April of 2016.

## **Sequence of Construction:**

Construction of the facility was awarded to Kibler Construction Company, Inc. in February of 2020. All necessary Federal and State permits were obtained for the project.

The project wrapped up in Spring of 2021.

Carroll County Bureau of Resource Management received \$1,900,000 towards the construction of this project through the Department of Natural Resources Chesapeake & Coastal Service.

## **Project Details:**

Watershed:	Liberty Reservoir Watershed
Drainage Area:	601 acres
Impervious Surface Treated:	72.75 acres
Costs: Engineering	\$ 219,350.51
Construction	\$ 3,040,352.74
Time Frame:	5 years

## **Submitted By:**

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