

# MARTIN LAKE SHORES PARK STORMWATER POND ENHANCEMENT



Stormwater Pond



## Project Summary

An existing stormwater pond treating water draining to Martin Lake was enhanced in fall 2021. Prior to this project, the pond was undersized for its 41-acre residential contributing drainage. The pond is within Martin Lake Shores Park, and less than 100 feet from the lake so the lack of stormwater treatment had a direct impact on the lake. The pond footprint was increased 55% and the pond depth was doubled from 2.5 to nearly 5 feet. A fence-like wooden baffle was added to crate a longer flow path for water and more sediment settling. Pollutant reductions listed below are compared to the original pond design, but are greater if compared to pond's condition immediately before construction. Funding was provided by a Watershed Based Funding grant to the Sunrise River Watershed Management Organization. ACD provided project administration, design services, and construction oversight.



Project and owner after completion. November 2021.

## Project Specs

Date Installed .....November 2021  
Phosphorus reduction ..... 1.09 lb/yr  
Sediment reduction ..... 436 lb/yr  
Vegetation ... Native Buffer on pond

## Est Cost Effectiveness

Phosphorus ..... \$1,083 per lb TP/yr  
Sediment ..... \$2,708 per lb/TSS/yr

Note: Cost effectiveness includes est construction and lifetime maintenance costs.

## Project Cost

Construction ..... \$47,391.00  
Design and coordination were provided by the ACD.

Project Funding: 2019 SRWMO WBF grant

## Pre-Construction



## Post-Construction (note: normal water level will be higher than shown)

