# Yellow Creek 2A/2B Passive Treatment System
## SRI O&M TAG Project #52 Request #3
## OSM PTS ID: PA-124

Requesting Organization: Blacklick Creek Watershed Association (in-kind partner)
Requesting Organization Representative: Dennis Remy
Dates of work performed: 3/8/2023

Initial Request: On 9/22/22, the Blacklick Creek Watershed Association (BCWA) requested a site visit to Yellow Creek 2A/2B treatment system to clear a blockage at the forebay inlet pipe system which appeared to be short circuiting during higher flow events.

Initial Site Visit, Observations, and Identified Needs: As both BioMost, Inc. (BMI) and Stream Restoration Incorporated (SRI) were familiar with the system and the issue appeared to be straightforward, an initial assessment was not conducted based on information provided by BCWA.

Work Completed: In March 2023, BioMost, Inc mobilized to the site. BioMost personnel joined Cliff Denholm from SRI and observed that water which may be poor quality had the potential to bypass the treatment system. A trench was dug to direct flow to the lower forebay pipe which flows to the splitter mechanism for the 2A/2B systems. Water quality data was obtained to determine the health of the system. It was noted that the 2A settling pond above the VFP was partially flowing through the emergency spillway indicating a hydraulic barrier is present in the VFP. It is known from previous maintenance activities that the media in the VFP 2A system needs replacement due to permeability issues.

Water from various components was monitored while on site and included below.

| Sample point | pH | Flow (GPM) |
|---|---|---|
| 435 (Outlet) | 5 | 166 |
| 442 (2B VFR) | <4 | 13 |
| 434 (2A VFR) | 7.2 | |
| 433 (2A In) | | 97 |

Recommendations & Future Considerations: On-going water monitoring and site inspections should continue. Debris should be cleared periodically from the forebay inlet pipe as needed. Funding for system rehabilitation should be sought if improved treatment is desired. It was confirmed that permeability and short circuiting challenges still exist at this time based on available data.

## Photo Log

**Top Left**: Field visit with Cliff Denholm to confirm work to perform (3/2/23).
**Top Right:** Material was shoveled by hand to divert more raw flow to the system (3/3/23).
**Bottom Left:** VFP 2A outlet accepting a portion of the water to the system (3/3/23).
**Bottom Right:** Water overtopping VFP 2A collection pond emergency spillway (3/3/23).