

Euclid Creek Watershed Council 2021 Work Plan – 11/24/2021 Update

11/24/2021 Work Plan Summary

Grant work on the Euclid Creek Mayfield Sand Ridge GLRI design project is complete. SWCD received a 2021 319 grant for Phase 1 construction. NEORSR has agreed to provide match. SWCD is working with OEPA, the Golf Course and Cleveland Clinic on getting agreements in place before finalizing the grant contract with the anticipation of winter 2022/2023 construction. SWCD has applied for 2022 funding for the Phase 2 construction with H2Ohio and the 319 program.

SWCD served on the CLEB Ohio EPA 319 funded basin retrofit screening tool and concept work grant committee. SWCD will take the knowledge learned and apply it to Euclid Creek basins – particularly those outside of the NEORSR regional system. An additional task included in this grant was hosting Backyard Stream Workshops where participants were eligible for free live stakes. These programs were promoted to streamside residents along Euclid Creek.

SWCD managed a WRLC/Dominion grant aimed at creating public rain gardens and native landscaping. This included the installation of a rain garden in the spring at Willoughby Eastlake School of Innovation and a native plant garden in Beachwood at The Temple-Tifereth in October (a memorial garden for Joe Newman). To address NEORSR requests to target DEI and underserved communities, a rain garden was also installed in East Cleveland across from Coit Road Farmers Market in partnership with Food Strong.

SWCD will support Lyndhurst and Richmond Heights as the USFS GLRI grant managed by CRWP (CLEB: Planting Trees to Reduce Runoff – Central Lake Erie) gets started. A pre-bid meeting was held 11/22/2021, SWCD will help review contractor proposal packages and assist with spring volunteer plantings.

Quarter 1-3 NEORSR ECWP 2021 WPSA work was completed, and reporting has been submitted to NEORSR for SWCD, CRWP, and FOEC efforts. The 2022 NEORSR WPSA Proposal was submitted and updated to reflect additional emphasis on implementation and DEI per NEORSR request.

OEEF grant work for the 2021-2022 Master Rain Gardener (MRG) program has begun. The William Bingham Foundation award for the program has been completed. A universal Northeast Ohio Master Rain Gardener Website was created and SWCD worked to incorporate an interactive map where students can add their rain gardens, volunteers can adopt a public rain garden, and public entities can add gardens they wish to be added to the map for adoption.

PIPE Program:

22 involvement events or activities and 12 educational programs have been held in 2021 for the Euclid Creek Watershed Committee Communities. Virtual programming on Green Yards Healthy Homes, Backyard Stream Maintenance, Tree Care, Rain Barrels, Rain Gardens, and water quality monitoring is available on demand for promotion to residents. Simulated live presentations can be catered to individual communities for promotion and viewing at a specific time and date.

The planned spring in person Master Rain Gardener program was moved online. Simulated Live classes with live Q/A sessions were hosted in February (Winter Class led by CRWP), April/May (Spring Class led by Cuyahoga SWCD), and August/September (Summer Class led by Cuyahoga SWCD). A fall in person course at Holden Arboretum was held starting July 21st in partnership with CRWP and Lake SWCD. Summit SWCD also held online Master Rain Gardener

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Programming in 2021. 145 students took the one of the Northeast Ohio MRG classes in 2021. 23 of the students resided in Euclid Creek Watershed Communities. Since the program inception in 2019, 109 rain gardens have been installed by Northeast Ohio Master Rain Gardener graduates. 16 professionals have been certified, and 12 graduates have adopted public rain gardens and perform routine maintenance.

Specific updates on tasks/activities for the work plan are highlighted in blue below.

Tasks needing feedback or action are in red below.

Euclid Creek Watershed Action Plan Implementation

- Restoration, Conservation, and Green Infrastructure Projects: Continue implementing, monitoring and stewarding stream and floodplain restoration projects, greenspace conservation and stormwater management projects in the watershed and within the Council's community boundaries.

Annual projects list:

Active Projects:

Mayfield Sand Ridge -Lyndhurst– Design

- Cuyahoga SWCD will manage project, money will pass from USEPA through OLEC to Cuyahoga SWCD. *Funded by GLRI.*
- *Grant Completed June 2021*
- **Mayfield Sand Ridge -Lyndhurst– Phase 1 Construction**
 - Cuyahoga SWCD will manage project, Ohio EPA 319 funds and NEORS match.
 - Cuyahoga SWCD working with partners on agreements to initiate grant.

USFS GLRI Tree Planting

- Cuyahoga SWCD will assist CRWP and communities with administration of tree planting and invasive management that is part of regional grant to CLEB for riparian reforestation efforts. *Funded by USFS/GLRI*
- *Attended kick off meeting, completed partner agreement, review RFP, attended Pre-Bid meeting*

Basin Retrofit Screen Tool

- Cuyahoga SWCD will work with CLEB partners on 319 grant for screening tool to prioritize basin retrofits. *Funded by EPA 319 Program.*
- *Attending monthly check in meetings and coordinating GIS data sharing with consultant, attended training session, attended project feedback session.*

Rain Garden and Native Plant Installation

- Cuyahoga SWCD will manage grant deliverables for 4-5 native plant or rain garden installations. *Funded by WRLC/Dominion Energy*
- *Willoughby Eastlake School of Innovation rain garden installation – May*
- *Food Strong Rain Garden installation – May*
- *Beachwood Native Garden Installation - October*
- *South Euclid Legacy Tree Planting – October (Funded by SWCD Legacy Tree Donation Program)*

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- **Euclid – Will reconvene with city in 2022 about priorities. Will work with city and Bluestone Heights to identify sites that target underserved communities.**

FOEC Outreach Grant

- Cuyahoga SWCD will assist FOEC with ordering materials for educational outreach mailings and Enviroscape educational tool for tabling. *Funded by WRLC/Dominion Energy*
- *SWCD completed grant purchases for FOEC, FOEC has successfully used the Enviroscape at several community festivals. SWCD completed final grant report.*

Master Rain Gardener Program

- Cuyahoga SWCD will assist CRWP and Lake SWCD to manage grant deliverables to administer the Northeast Ohio Master Rain Gardener Program – *current funding from WRLC/Dominion Energy and William Bingham Foundation, and OEEF grant awarded April 2021 to continue program into 2022.*
- *Held two online programs, assisted CRWP with fall in person program. Helped to create master website and interactive rain garden maps.*

South Euclid Green Infrastructure Incentive Program

- Cuyahoga SWCD will assist CRWP and the community with implementation of pilot stormwater incentive program.
- Attended meeting with CRWP and Bluestone Heights to map out partner roles
- **Project will get started in earnest in 2022**

Existing Project Stewardship:

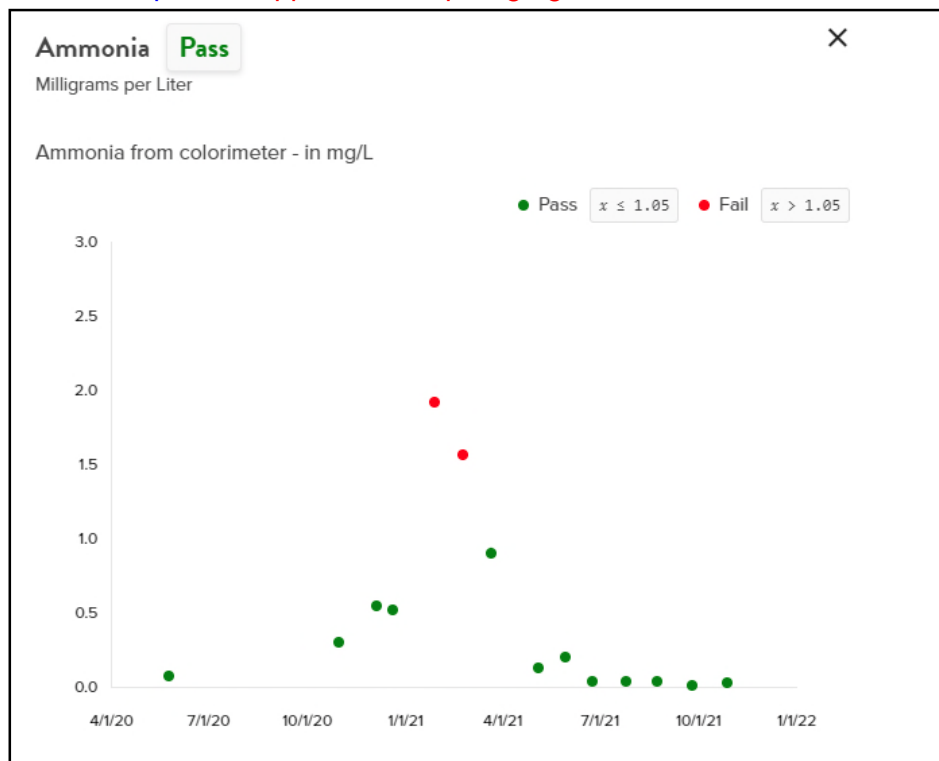
- **East Branch Dam Removal Project, Euclid and Richmond Heights - Monitoring**
 - Continue with annual monitoring to ensure project stability, due to proximity to Highland Road bridge footers.
 - Work with NEORS and CMP to ensure bridge work stabilization meets intent and watershed requirements.
 - Cuyahoga SWCD Stormwater staff have been sending monthly requests to contractor and county for proper stabilization.
 - *Spring walk though with partners.*
 - *Continued monthly work with SWCD stormwater staff to monitor bridge stabilization efforts and native plantings*
 - **Continued issues with perimeter stabilization at water level.**
- **Willoughby Eastlake School of Innovation Stream Restoration Project, Willoughby Hills – Restoration Project Monitoring and Volunteer Maintenance**
 - Work with school to maintain invasives and monitor project.
 - *15 White Pines planted along highway border of project.*
 - *EPA monitored project in summer.*
 - *SWCD inspected the site and informed contractor of needed repairs to upstream bend stabilization.*
 - *Contractor addressed repairs.*
- **Wildwood Lacustrine Wetland and Stream Restoration Project, Cleveland – Monitoring**
 - Coordinate with partners on future monitoring and maintenance activities.
 - *Spring Cleanup and invasive pull May 15.*
 - *Annual monitoring.*

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- 1 erosion monitoring after significant rain event.
- **Community Christian Church, Euclid – Tree Planting - Monitoring and Volunteer Maintenance**
 - Monitor restoration project and coordinate volunteer maintenance.
 - Monitoring occurred this spring, majority of trees are healthy. Site is in need of a litter pick up day and tree cage maintenance event.
- **Hawken School, Community Park Meadows and Rain Gardens, Lyndhurst – Monitoring and Volunteer Maintenance**
 - Monitor restoration projects and coordinate volunteer maintenance.
 - Worked with Hawken Students to manage phragmites. Continued monitoring of tree planting.
 - Site is in need of a cage maintenance day. Supplemental plantings on the hillside would be beneficial.
- **Ninemile Rain Garden and Native Landscape Beds, South Euclid – Monitoring and Volunteer Maintenance**
 - Monitor Bioswale and native beds installed 2019 and coordinate volunteer maintenance.
 - Annual monitoring performed. Cages removed from areas that no longer needed them. Site in good condition.
- **Redstone Run Highland Reserve, City Hall Riparian Planting, Greenwood Farm Green Infrastructure, County Airport Rain Garden, Richmond Heights - Monitoring & Invasives Management**
 - Manage invasive Canada thistle plants in riparian area (Work with USFS/GLRI project on long-term solution).
 - Monitor restoration plantings and manage invasives in coordination with West Creek Conservancy.
 - Volunteer stewards have been working to address trash and invasives at Redstone Run and Greenwood Farm. Poisonous Hemlock was identified at Greenwood Farm and a request has been made for city staff assistance.
 - A few shrubs and trees have been ordered to enhance the bioretention at Greenwood Farm.
 - City of Richmond Heights provided mulch for the bioretention at Greenwood Farm.
 - SWCD coordinating with Enviroscience to treat Lesser Celandine at Greenwood Farm.
 - SWCD worked with Greenwood Farm Board volunteers, master rain gardener (MRG) volunteers, Orange High School student Stephen Daly, and CWRU volunteers to address weeds and mulching in the bioretention and invasive shrub removal on site. SWCD planted two trees and two shrubs in the bioretention. Two MRG volunteers have adopted the bioretention basin.
 - Redstone Run has been adopted by an FOEC volunteer who performs routine cleanups and tree care. Site would benefit from a tree planting.
 - Richmond Heights to use Redstone Run site for December deer management (approved by SWCD and WCC board).
- **Highland Heights Wetland Preserve, Dusty Goldenrod Preserve, Service Department Bioretention, Highland Heights – Monitoring & Invasive Management**
 - Monitor restoration plantings and manage invasives in coordination with West Creek Conservancy.
 - Coordinate with volunteers to weed bioretention

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- FOEC Stewards and SWCD staff led a cleanup event at the Highland Heights Wetland Preserve on April 10th. 6 volunteers removed 8 bags of trash. This event occurred due to a neighbor complaint about trash in the preserve.
- The Highland Heights Wetland Preserve was inspected. A significant amount of lesser celandine was observed. FOEC tried three different treatment methods in the spring and will assess in early 2022.
- Coordination with Orange High School Senior on senior project to help with restoration site and conservation site management and monitoring (3 week project in April & May focused on Dusty Goldenrod Preserve, Greenwood Farm, and Acacia Reservation)
- Sampling ammonia at Dusty Goldenrod Tributary #2. Volunteer data indicates high ammonia at this location. SWCD coordinate with Ohio EPA, Highland Heights, NEORSD, and County Board of Health to try and track down the source. Follow up monitoring indicates the source is between Wilson Mills and the properties along Hawthorne, but is yet to be determined. Levels returned to normal in April, but appear to be spiking again this November.



- FOEC continues to perform routine invasive plant management, tours, and cleanups at the conservation sites. SWCD has assisted with materials purchases for boundary marking.
- The Highland Heights bioretention has been adopted by a master rain gardener volunteer. Site is in good condition.
- **Other Riparian Plantings, Stream Restoration, Conservation Sites, and Stormwater Management Project Monitoring and Maintenance**
 - Coordinate monitoring and management activities with project partners including tree care, invasive management, and native plantings to ensure long term success of projects.

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- Lyndhurst –Wildflower Meadows and Rain Garden Inspections – spring and fall (2 sites). Meadow in good condition, some dumping and litter. Rain garden is overgrown – suggest not cutting all the way down for winter – just trim to 12-24 inches for habitat. Consider garden retrofit and sign replacement. Meadow signs are faded and need to be replaced.
- South Euclid –Rain Garden Inspection – good condition.
- Arbor day tree purchase to support Mayfield Heights Joe Newman Memorial Planting – City service staff planted.
- Mayfield Village - Wiley Park – Master Rain Gardener continues to maintain the two bioretention. Worked with City and ETEC to install 4 trees in spring.
- All annual inspections performed. SWCD will coordinate with communities on potential maintenance, signage replacement.

Project Planning:

- **Mayfield Sand Ridge -Lyndhurst**
 - Pursue grant opportunities for construction of Phases 1-3 on West Branch Euclid Creek
 - Ohio EPA has indicated support of the proposed 319 grant application for Phase 1. USEPA had some follow up questions to address before determining awards.
 - Phase 1 grant awarded. NEORS D match provided.
 - SWCD working with partners to get agreements in place.

- **Cleveland Clinic-Lyndhurst Campus – Hydrologic Reconnection Concept Plan**
 - Waiting for NEORS D Master Planning Effort before beginning pursuit of funding
 - **Mayfair Lake Dam Removal Project, Richmond Heights - Restoration Project**
 - Continue to meet and work with partners to try and secure funding.
 - John Myers from County Department of Public Works has expressed interest in the project. SWCD will meet to discuss. Suggest mailing, council meeting and public meetings in 2022/2023 after review of NEORS D CHALET Master Plan.
 - **Stormwater Retrofit project prioritization – Green Infrastructure Projects**
 - Find funding for concept plans that were developed for top two sites in 2010.
 - Find funding to develop concepts for projects on list without plans.
 - Reviewing Highland Heights Community Park Green Infrastructure concept for grant potential/tie-in to proposed access/trails work community is looking into. Discuss with City at Community Connections meeting.
 - SWCD will be attending conceptual planning training December 15th to assist with future grant proposals.
 - **Highland Heights Community Park Connections**
 - Work with City and WCC to determine feasibility, potential funding sources of connections to watershed amenities in and around the Community Park
 - Meetings with the City and WCC have been held. SWCD has been in talks with FOEC who are hesitant to support any trails around the Dusty Goldenrod Preserve and Highland Heights Wetland Preserve.
 - WCC and SWCD met with OHM to talk about next steps/concept work
 - SWCD helped the city to host public input meetings on OHM concepts

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- **SWCD will meet with City, WCC, and FOEC botanist to go over survey input and next steps.**
- **East 185th Street Fish Passage Project** (ODOT spillway) – **Feasibility Study**
 - Watershed Program Manager participates in meetings and reviews. (NEORS and USACE leading project.)
 - **Attended spring meeting. Funding for the design has been awarded to USACE. NEORS is still working on real estate issues. GLRI/AOC money for construction is not guaranteed. NEORS provided update on the project for newsletter.**
- **Cleveland Clinic-Lyndhurst Campus – Stream Restoration Project**
 - Continue to monitor property for sale and approach new owner about project.
 - **SWCD confirmed with Cleveland Clinic that the property is still being considered for sale as of early summer.**

Watershed Plan Update:

- **Euclid Creek Watershed Action Plan Update / Nonpoint Source Implementation Strategy Document (NPS-IS)**
 - Continue to update plans and submit new critical areas, goals, objectives, and project summary sheets to help secure federal funding for projects.
 - **SWCD has analyzed and mapped tree canopy for the Deforested Riparian Zone critical area using the latest county tree canopy data. This dataset was combined with the Lake County tree canopy data to create this critical area.**
 - **SWCD will finalize issue based critical areas for public and council input in 2022 to submit updated NPS-IS plan to OEPA.**
- Watershed Resources:
 - Provide watershed resources and conference / training information to Euclid Creek Watershed Council and Technical Committee.
 - Euclid City coordination and information about potential invasive plant talk with council
 - **Provided input on Mayfield Heights Aquatic Center stormwater controls and potential funding opportunities for native tree plantings as part of the project.**
 - **Continue to inform Technical Committee of training opportunities as they are brought to SWCD attention.**
 - Interact with local, state and national agency initiatives such as Total Maximum Daily Load (TMDL) reports, research opportunities, outreach and funding initiatives.
 - Call with Ohio EPA about pollutant based critical areas
- Grant Opportunities & Technical Assistance:
 - a) Provide communities grant opportunity resources to evaluate for their use.
 - b) Assist local communities on the assembly of grant applications.
 - Utilize NEORS Stormwater Program Community Cost Share as local match for restoration project grants and other shared priority projects with watershed communities
 - c) Assist Watershed Council communities with watershed projects
 - Provide assistance with projects in adjacent watersheds like Nine Mile, Green Creek and Euclid Lake Erie Watersheds

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- Worked with S Euclid councilwoman Sara Continenza on Food Strong Rain Garden installation (utilizing WRLC/Dominion Grant Funding)
- d) Provide technical assistance to communities on natural resource issues during master planning or update efforts, on floodplain management activities and on stream maintenance best management practices as requested.
 - Watershed Friendly Maintenance for Community Virtual Workshops. Recordings are available for viewing.
- e) Provide technical assistance to watershed landowners with stream maintenance, erosion and/or drainage issues as requested.
 - Virtual Backyard Stream Ownership Webinar available to landowners with stream maintenance questions.

Q1:

- Beachwood – Meetings Temple about watershed friendly landscaping and memorial garden, site visit, information on improper mulching and tree care
- Euclid - Business Manager call and assistance with illegal dumping behind property
- Highland Heights - Resident assistance with mapping and research about new oil & gas well proposed in neighborhood
- Highland Heights - property owner call about trash in easement & coordinating with FEOC Conservation committee on cleanup
- Lyndhurst - Property Owner Call about ravine stabilization
- Lyndhurst - Property Owner Rain Garden technical assistance report and call

Q2:

- o Beachwood (2), Lyndhurst (4), South Euclid (1), Willoughby Hills (1) - Sites visits, emails and calls related to erosion, drainage, planting advice and plant care advice, connecting residents with information about what to do when they identify a spill.
- o Working with two Beachwood places of worship to implement projects in the fall
- o Zoom Presentation at FOEC Annual Meeting and follow up to landowner questions
- o Zoom Presentation to Rotary Club on ECWP and how they can get involved

Q3:

- o SWCD staff assisted property owners and HOAs in Beachwood, Cleveland, Euclid, Highland Heights, Lyndhurst, Mayfield Village, Richmond Heights, and South Euclid with concerns about erosion, stormwater control measure maintenance, ravine tree care, wetland delineation, native garden planning, rain garden planning, backyard drainage, and backyard streamside care
- o Zoom Presentation to Rotary Club on SWCD and stormwater involvement.

Cuyahoga SWCD Conservation Action Grant & Scholarship Fund

SWCD has started to offer spring and fall mini-grants and scholarships for residents, organizations and schools in Cuyahoga County. The purpose of the Cuyahoga SWCD Conservation Action Grant & Scholarship Fund is to reduce the financial barriers of adopting conservation practices at home and in our community - practices such as rain gardens, rain barrels, planting trees, landscaping with native plants, teacher training and workshops. Cuyahoga SWCD will offer reimbursement grants and scholarships up to \$1000 based on

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project or scholarship type, demonstrated need and benefit. Grants are awarded twice per year, in March and September.

- Spring 2021 Grants – 19 grants totaling \$15,097.59 (13 Projects in Cleveland, 1 in Mayfield Heights)
- Fall 2021 Grants – 9 grants totaling \$8,930.00 (3 Projects in Cleveland)

- Volunteer Monitoring Program (VMP): Continue and advance VMP program
 - Conduct Volunteer Monitoring Committee meetings as needed.
 - Recruit new citizen volunteers.
 - Outreach and facilitate with interested groups.
 - Input data collected annually and develop annual report for volunteers and watershed communities.
 - Host water quality monitoring party with program updates and input for future. [Held January 23rd](#)
 - Coordinate with Cleveland Metroparks Watershed Volunteer Program
 - Coordination with volunteer monitors, Highland Heights, and partners with high ammonia results at Dusty Goldenrod Tributary #2. Follow-up monitoring was performed by SWCD with multiple kits at 8 stations to narrow down the source location.
 - Meeting with Ohio EPA about high ammonia samples
 - Housing and providing pickup for volunteer monitors, updating sign up genius for kit check out.
 - Routine monitoring data review and certifying data.
 - Two additional Euclid Creek volunteers have been trained in Q1 this year.
 - Processing 8 e.coli samples (volunteers take water samples, SWCD staff run bacteria protocols and use incubator)
 - 20 out of 120 bacteria tests have been performed finding loads above the TMDL, consistent with NEORS D findings.
 - Planning with NEORS D includes supplementing their sampling, as NEORS D can only sample two years out of every 10. Sites outside of the sewer district's area will be targeted to provide baseline data.
 - Water Quality Monitoring Training held 4/10/2021.
 - **NEORS D has indicated the Watershed agreement program will not support monitoring equipment purchases going forward.**

Q2:

- Chemistry sampling occurred at all sites at least once a month and continues to display levels of ammonia that meet TMDL target limits at all but one site. However, all sites continue to have levels of phosphorus that exceed the TMDL target limit. This monitoring data will continue to capture any changes brought on by restoration projects and ongoing management measures.
- Twelve volunteers contributed 45 hours to collect and process water samples for both E. coli and chemistry monitoring.
- Two training workshops were held for new volunteers and 16 members of the public participated.
- Bacteria Monitoring: Typical local laboratory analysis of stream samples for E. coli cost between \$18 - \$75 per sample, which is cost prohibitive to many townships and organizations. The Hoosier Riverwatch sampling method is a cost-effective process to collect indicator-level E. coli data that generally produces results within an acceptable margin of error of laboratory results. The goal of the E. coli sampling program is to identify

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any “hotspots” that can then be sampled for laboratory testing, ruling out areas with acceptable levels of E. coli where the more expensive laboratory data may not be necessary. All data, both of E. coli and the ongoing chemistry sampling, collected by CSWCD and volunteers is publicly available, and any organization (including but not limited to townships, cities, and special districts) are encouraged to use the data to inform management measures. While no TMDL for E. coli CFUs has been established for Euclid Creek specifically, our analysis refers to the [Recreation/E. coli TMDLs in Selected Watersheds Around the State of Ohio](#) for general guidelines on interpreting CFU limits. Initial results will continue to be published at the Euclid Creek Water Reporter [map](https://maps.waterreporter.org/2f4cd5fdcefc70a6/) (<https://maps.waterreporter.org/2f4cd5fdcefc70a6/>).

- E. coli sampling has been completed at all Euclid Creek sites in Q2 of 2021 and will continue to gather data monthly at all sites.
- CSWCD staff continue to train volunteers and several local watershed groups have expressed great interest in learning to sample E. coli.
- CSWCD staff also spent time collecting and processing E. coli samples to fill in any data gaps.
- Additionally, in Q2 CSWCD staff began collaborating with the Cuyahoga County Board of Health (CCBOH) on initial plans for combining all watershed data across Cuyahoga County into one centralized database. Plans are ongoing. Meanwhile the CCBOH continues to monitor E. coli using limited seasonal staff throughout the summer and used all E. coli data collected to date to inform their sampling plans.

Q3:

- **Chemistry Monitoring:** Thirty-six samples were taken across all sites by sixteen volunteers, including six volunteers that are new to the program. One training session for new volunteers was held, hosted jointly by Cleveland Metroparks partners and CSWCD staff. One new monitoring site was developed to capture pre-and-post project monitoring above and below the proposed Mayfield Sands Restoration site due to 319 funding awarded. The ongoing goal of the program continues to be robust sampling of each site at least monthly, year-round, to supplement partner data.
- **Bacteria Monitoring:** Monthly testing continues at vulnerable headwater sites; continued testing throughout the watershed has been expanded to include two more volunteers trained in E. coli sampling and incubation.

Q4:

- In October and November 18 volunteers sampled all 13 sites 25 times. Volunteers are reminded this month to switch over to the Inclement Weather Sampling Protocol, taking the sample and probe measurements at the site then returning to a warm spot to complete the remainder of the tests, and not to sample on slippery banks or break through ice. Most measurements fall within expected ranges and monitors have not reported and spikes or spills. In addition, all 13 sites have been sampled for E. coli at least once. The kit has been removed from Wildwood Marina as it has closed for the season and now two kits are stationed at Noble Neighborhood Library, close to the west branch sites, and Richmond Heights Branch of the Cuyahoga County Library, close to the headwaters and east branch sites. The third kit is in for maintenance due to a malfunction with the YSI Probe.
- **Model Ordinances:** Implement local ordinances to meet community stormwater management plan goals.
 - Work with local communities and City Engineers in updating the ordinances to meet the 5-year Stormwater Management Plan goals.
 - 2021 Goals:

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- continue to work with Mayfield Heights, Highland Heights and Lyndhurst on riparian setback ordinance consideration/passage.
- CRWP gave a presentation about riparian setback adoption and implementation assistance at the Euclid Creek Summit, assisted with facilitation of breakout sessions, and follow up outreach to Euclid Creek communities about technical assistance available for riparian setback adoption.
- Host workshop on successful implementation of setbacks with CLEB partners for communities with setbacks in place – this workshop got pushed back and we are now targeting 2022.

Watershed Outreach & Program Partner Collaboration

1. PIPE Program

- Continue implementing the PIPE program through the PIPE Committee and coming up with new and innovative education and outreach opportunities.
- PIPE Committee Meeting Held 3/22/2021
- All PIPE programming/permit requirements have been completed for 2021.
- SWCD will work with communities on annual reporting in February 2022.
- See separate work plan updates for 2021 programming.
- For 2022 suggest PIPE work plan focus strictly on PIPE activities and watershed events be tracked as a separate deliverable in the ECWC work plan.

2. Watershed Outreach

- Continue to coordinate watershed outreach with the goal of reaching a diverse group of stakeholders from streamside property owners to large landlocked landowners.
 - Euclid Creek Newsletter - Assemble and distribute the Euclid Creek newsletter at least one time a year. Newsletter emailed to distribution list and mailed to ECWC Communities (public officials and city staff).
 - Broadcast emails/E-Newsletter – Send out monthly broadcast emails/E-Newsletter, more frequent updates with more timely information. Continue to add new city council and staff to email distribution list.
 - January Eblast (1,784 recipients)
 - Water Quality Volunteer Eblast (267 recipients)
 - February Volunteer outreach and recognition Eblast (1,776 recipients)
 - March Eblast (1,630 recipients)
 - April Cleanups Email 4/8 – 342 recipients
 - April Updates Email 4/14 – 1,625 recipients
 - Earth Day Volunteer Email 4/22 – 268 recipients
 - June updates Email 6/7 – 1,629 recipients
 - River Day Volunteer Email 6/22 – 278 recipients
 - Q3: Monthly email newsletters were compiled and sent to an audience of 1,624
 - Annual Newsletter Mailed to 582 households. This included purchase of targeted mailing to underserved/BIPOC community members. SWCD mailed newsletters for displays first week of December. (Paper shortages created a delay for the bulk printing job)
 - Website – Continue updating website with new projects and news.
 - FOEC Content to monthly blog, updating front page, updates to water quality monitoring contacts

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- Social Media (facebook, Instagram, twitter) – Manage Euclid Creek Watershed Program social media accounts. Post 1-5 times a week.
 - 102 posts in Quarter 1 (ECWP Programs, Cleveland Plastic Reduction Working Group updates, partner events and information)
 - Quarter 2: 57 Social media posts
 - Quarter 3: 45 Social media Posts
 - (Reach: Facebook: 989 followers, 905 likes; Twitter: 212 followers; Instagram: 266 followers)
 - Targeted Streamside Property Owner Mailing –Continue annual mailing to streamside property owners in Euclid Creek focusing on watershed management and best practices on properties.
 - Richmond Heights & Willoughby Hills Phragmites mailer to 20 homes along the creek with reported invasive plants in back yards
 - Q2: SWCD staff assisted FOEC with targeted mailing to property owners around Euclid Creek preservation areas.
 - LAWE # 6 Mailed November to 1,523 households along Euclid Creek and Green Creek.
 - Euclid Creek Watershed Champion Pledges – Encourage residents to take simple steps in their yard and community to help Euclid Creek. Participants will receive a yard sign.
 - 1 new Euclid Creek champion in Q1 2021
 - 38 total Euclid Creek Champions
 - This program has not been as successful as hoped. For 2022 we will likely only promote this at in person events/have in person sign pick up to cut down on administrative time mailing or delivering signs.
3. Euclid Creek Watershed Council Coordination
- Watershed Coordinator serves as Secretary to Euclid Creek Watershed Council (non-voting member). Gives notice of meetings, prepares meeting agendas with ECWC Chair and content, keeps minutes, and records all votes.
 - Drafted 2020 meeting minutes and posted updates to website
 - Drafted April meeting minutes and posted updates to website
 - Continue coordinating the Euclid Creek Watershed Council meetings and committees, including the PIPE Committee, Technical Committee and Volunteer Monitoring Program Committee.
 - PIPE Committee Meeting Held 3/22/2021
 - Gauge Technical Committee Interest on virtual 2022 programming – Proposed MS4 Permit Updates, SCM Maintenance, Tree Care, Good Housekeeping
 - Continue to promote best land use practices in communities.
 - Assist with and coordinate the NPDES Phase II Permit among the Council communities as requested by the Technical Committee.
4. Watershed Partner Liaison
- Assist watershed partners with Euclid Creek watershed resources.
 - Assisted NEORSD with Cuyahoga Board of Health coordination to provide requested septic system information
 - Serve as liaison between Euclid Creek Watershed Council and watershed partners.
 - Provide Euclid Creek watershed program updates to watershed partners and at watershed partner meetings as time allows.
 - Coordinate with watershed partner members at watershed events.

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- For 2022 – targeting program community and partner updates in monthly emails, requesting Euclid Creek projects/updates to share in addition to SWCD/FOEC work.

Watershed Program Sustainability / Funding

- **Euclid Creek Watershed Council MOU for 2021-2024** – Renew watershed program MOU with Euclid Creek Watershed Council communities and **approach Pepper Pike and Willoughby Hills to gauge interest in joining**
- **Central Lake Erie Basin (CLEB) Watershed Organization Collaboration**– local watershed groups from Black River to Ashtabula/Conneaut River Watershed
 - Meet quarterly to discuss collaboration opportunities, funding challenges, watershed gaps in coverage, etc.
 - Table events collaboratively – share watershed volunteer time at regional events – central messaging key to avoiding public confusion of watersheds
 - CLEB applies for funding to maintain support and assist existing watershed groups with workload and to assist groups without watershed programs in special projects/programs.
 - CLEB has been meeting monthly – virtually during the pandemic. SWCD staff attend meetings and provide quarterly ECWP updates to continue regional watershed work support.
- **NEORS-ECWP Watershed Organization Service Program 2021**
 - Cuyahoga SWCD will manage 2021 service program according to three-way MOU with FOEC and CRWP. FOEC awarded \$40,000. CRWP to be the fiscal agent.
 - Q1 Reporting submitted
 - Q2 Reporting submitted
 - Q3 Reporting submitted
 - 2022 WPSA Application submitted for \$40,000 – NEORS has requested a shift in focus with more heavy emphasis on implementation and DEI services.

Additional Watershed Efforts led by Partner Agencies

- Participate in partner agencies' meetings, serve on committees, and/or planning efforts as requested/needed.
 - **Cleveland Metroparks - Acacia Reservation, Euclid Creek Reservation-Wildwood Park**
 - Assisted CMP with information for WRRSP Acacia Reporting
 - Promoting CMP Acacia cleanups, assisting with Wildwood cleanup and invasive pull
 - Provided SWCD and FOEC letters of support to CMP COTF Grant Application for trail extension of Euclid Creek Reservation north onto old Euclid Middle School property
 - Supporting Acacia Cleanups with Litterati Challenge and Smart Grabbers
 - Euclid Creek Middle School Tree Planting will now occur 2022 – SWCD will assist with volunteer plantings
 - **CLEB**
 - *Attending monthly committee meetings and 2 CLEB led DEI workshops*
 - *Assisting CLEB with several grants (outlined above)*
 - **Cuyahoga Area of Concern (AOC) Committees**
 - Cuyahoga SWCD is now the AOC facilitator and can no longer hold a voting member position
 - M. Hennessey will be attending and keeping records for all AOC subcommittee meetings

Euclid Creek Watershed Council 2021 Work Plan – 11/24/2021 Update

- E. Hiser will be attending and keeping records for all AOC Strategic Project Implementation committee meetings
- SWCD staff attended and supported quarterly AOC committee meetings
- SWCD attended and supported the Strategic Implementation subcommittee meeting
- SWCD is working with Ohio EPA and the SIP subcommittee to work on a list of Non AOC funded projects that address HUCs with continued habitat, fish, and macroinvertebrate beneficial use impairments. Euclid Creek projects have been provided for review.
- **NEORS**D Stormwater Program
 - Attended Quarter 1 and Q4 WAC Meetings.
 - CHALET Master Planning is almost complete. SWCD would like to attend community meetings with NEORS
- **NOACA**
 - J. Rybka serves on the Water Quality Subcommittee
- **Cuyahoga County Healthy Urban Tree Canopy Grant Program**
- Cuyahoga SWCD Staff help with this grants administration, application reviews, and on site planting inspections.
- If you need assistance with a 2022 application – please let Elizabeth know as soon as possible. We are happy to review applications and provide insight for a successful proposal.