



Request for Proposals (RFP)
Design-Build Services for
Grant Park Holes Creek Stabilization, Project No. 2022-0957

Centerville-Washington Park District (CWPD) is soliciting proposals for a Design-Build project to implement all aspects including, without limitation, design, engineering, permitting, construction, and post-construction site restoration for the Grant Park Holes Creek Stabilization project. **All bidders must pre-register for the project by emailing the Project Manager, Nick Meyer, at nmeyer@cwpd.org. The email should include company contact information along with a link to company website. The RFP information will be sent out via email once the bidder is properly registered for the project. Final proposals in pdf format must be emailed to nmeyer@cwpd.org by 4 pm on Thursday, June 15, 2023.**

A pre-bid meeting will take place via zoom on June 1, 2023 at 2pm. A link to the pre-bid meeting will be sent to all companies who are pre-registered. Attendance is encouraged in order to fully understand the project scope, however it is not required in order to submit a proposal. Also, site visits can be scheduled with Mr. Meyer after the pre-bid meeting has concluded.

All questions relating to this project are required to be submitted via email to the Project Manager, Nick Meyer. Answers will be provided to all parties who submitted notification of their intent to submit a proposal. Deadline to submit questions is 72 hours before submittal deadline. No Bidder may withdraw a bid submitted for a period of sixty (60) days after the date set for the opening of bids.

PROJECT DESCRIPTION:

Centerville-Washington Park District was the recent recipient of H2O Ohio Grant funding. The funding will be utilized to improve stream water quality by stabilizing the stream bank. The qualified consultant/contractor will have knowledge and understanding of implementing a project per H2O Ohio guidelines (H2O information and application attached). A master plan for Grant Park was completed in 2021 focusing on improving park user experience, trails, wayfinding and overall sustainability of the park. More details from the park master plan can be found on our website at <https://www.cwpd.org/parks/grant/>.

The project will focus on streambank stabilization/restoration and channel realignment, to divert the force of flow away from the eroding banks and provide more stable channel morphology. Many locations within Grant Park the banks have destabilized due to flashy flows and storm water runoff from surrounding development and multiple storm water outlets. Severe bank erosion from high flows and channel realignment is threatening trail infrastructure and diminishing water quality in those reaches. Many of these structures are identified for removal to improve stream hydrology, water quality, and plant and wildlife populations.

937.433.5155



www.cwpd.org



mail@cwpd.org



221 N. Main Street
Centerville, Ohio 45459



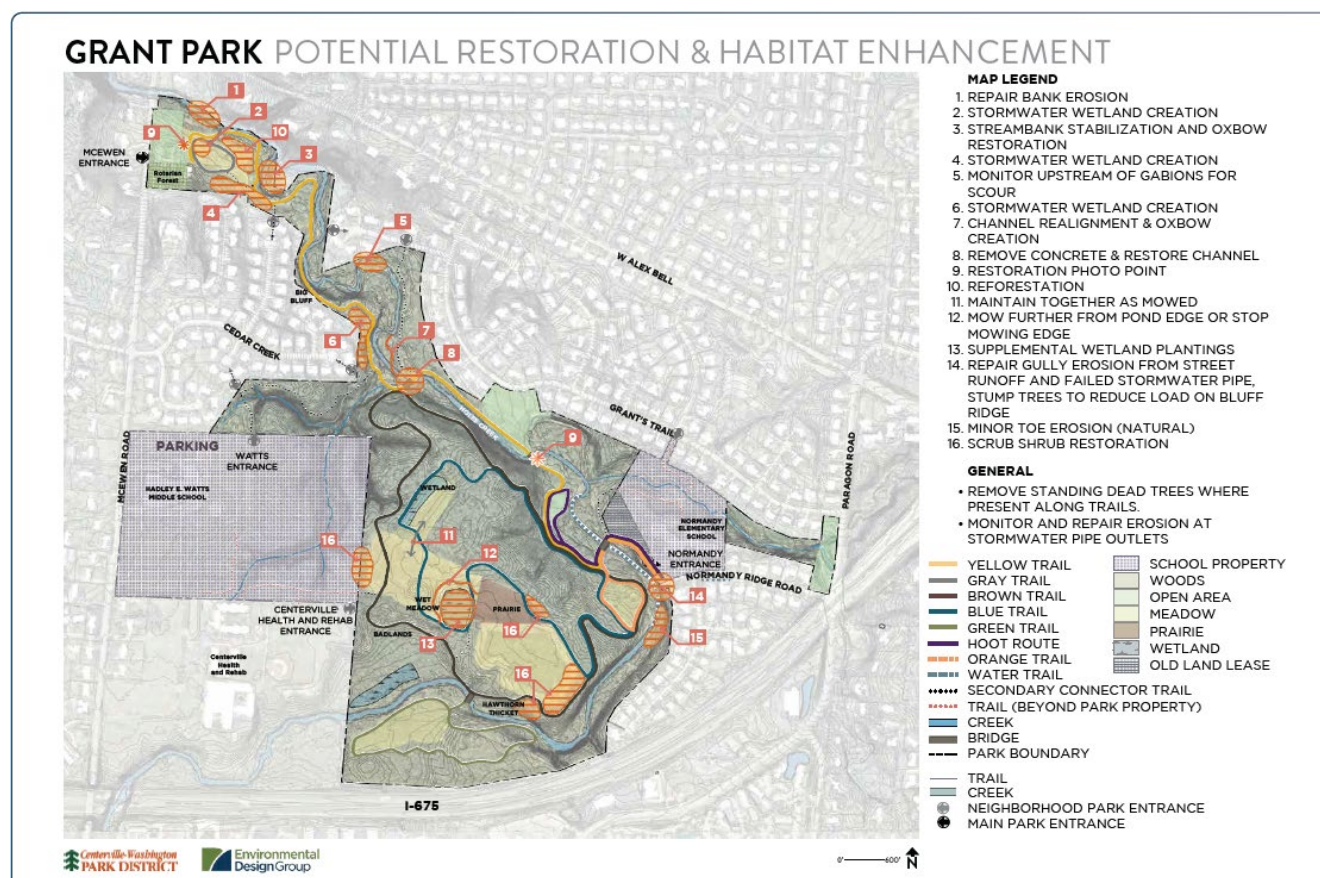
Centerville-Washington PARK DISTRICT

Where possible, improving stream access to riparian floodplain along the creek will help dissipate the energy of high flow events from upstream, further reducing downstream erosion. Soil and structural bioengineering methods such as, but not limited to, live stakes, soil encapsulated lifts, vegetated riprap, brush mattresses, log, tree, root wad or boulder revetments, and stream barbs are ways to protect streambanks from scour and erosion that can also help restore the physical, biological, and chemical functions and values of the stream.

Funding/Estimated Budget

Total Project Budget is **\$210,000.00**. This budget includes but is not limited to engineering, permitting, bidding and construction of 3 restoration areas deemed a high priority from the Park Master Plan: Area 3, Area 5 and Area 7. **How the money is allocated towards all 3 areas is up to the project consultant/contractor. However, Area 7 is the highest priority of the 3 based off scheduled trail improvements and future bridge access proposed in this area.**

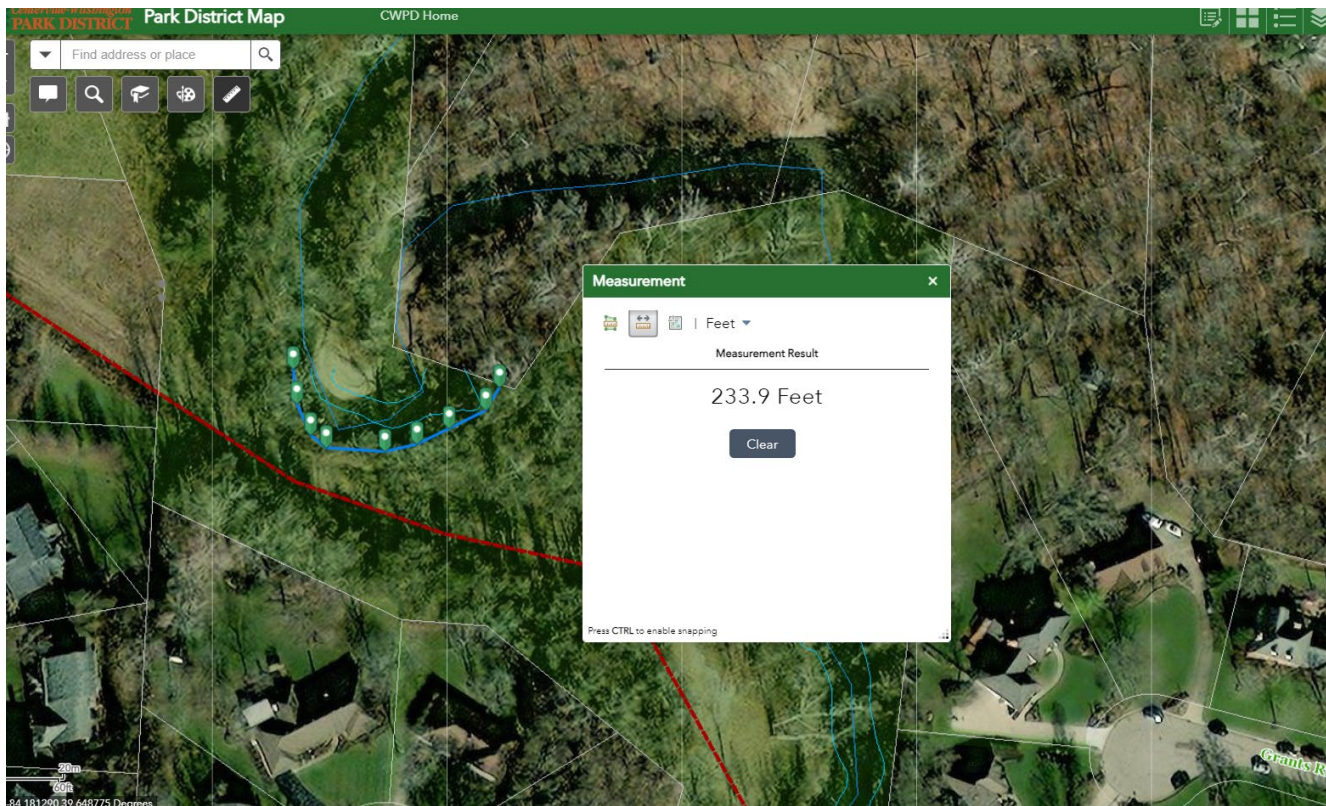
Site Map



Project Location and Site Photos as of 4/28/2023

Area 3

The stream is seeking a more stable platform and eroding the western banks. Approximate Length of Stabilization- 235 feet.



937.433.5155



www.cwpd.org



mail@cwpd.org



221 N. Main Street
Centerville, Ohio 45459



Centerville-Washington **PARK DISTRICT**



937.433.5155



www.cwpd.org



mail@cwpd.org

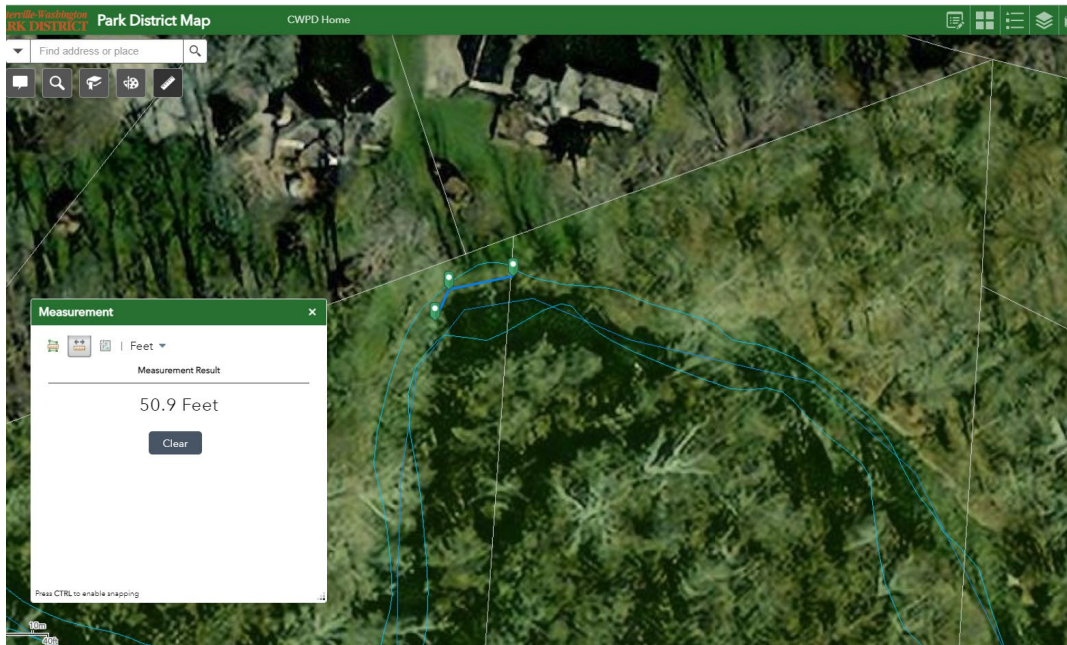


221 N. Main Street
Centerville, Ohio 45459



Area 5

An existing gabion wall is beginning to see signs of scour along the upstream end of the wall. Approximate Area of Stabilization 50 feet.



937.433.5155



www.cwpd.org



mail@cwpd.org

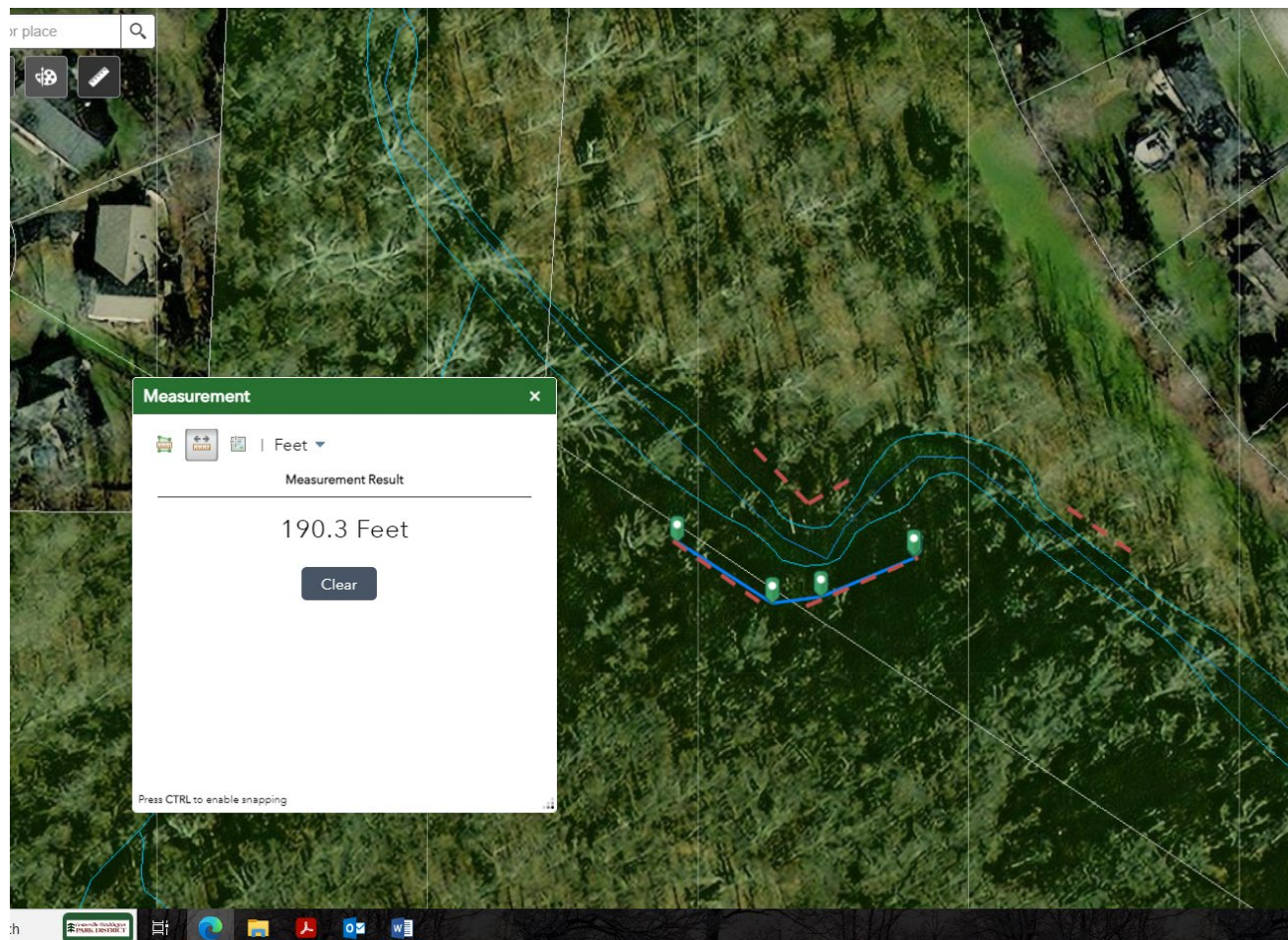


221 N. Main Street
Centerville, Ohio 45459



Area 7

Approximate area of stabilization to take place on both sides of creek for approximately 190 feet each. Then, 50 feet upstream where creek is cutting behind existing stabilized area.



937.433.5155



www.cwpd.org



mail@cwpd.org



221 N. Main Street
Centerville, Ohio 45459



Centerville-Washington **PARK DISTRICT**



937.433.5155



www.cwpd.org



mail@cwpd.org



221 N. Main Street
Centerville, Ohio 45459





SCOPE OF SERVICES:

The Project will be constructed using the "design-build" project delivery model generally described below:

- Design and Engineering: Perform site assessment to identify and characterize existing site conditions to support the development of restoration design plans. Conduct hydrology and hydraulic modeling of the site reach. Provide plans for wetland, floodplain, and riparian restoration and revegetation.
- Procure all regulatory permits necessary to initiate and complete the Project. It is the Design-Builder's responsibility to determine all necessary permitting requirements, prepare all permit related applications and reports, and procure all necessary permits before construction begins.
- Prepare and submit the preliminary and final engineering designs to CWPD.

937.433.5155



www.cwpd.org



mail@cwpd.org



221 N. Main Street
Centerville, Ohio 45459





- Project Construction: The selected Design-Builder shall perform construction in accordance with the final design approved by CWPD and per the terms and conditions of the Contract.
- The Design-Builder shall be responsible for minimizing disturbance to the site, existing natural areas and waterways during project implementation. **Any and all stabilization techniques will be considered for this project. Natural re-establishments of the banks are preferred.**
- Any areas disturbed must be cleaned up, graded naturally, mulched, and seeded or reforested in accordance with reasonable timeframes or as required by the Contract.
- Ensure all methods and procedures utilized in the Project are in accordance with H2Ohio mission of water quality improvement.

SELECTION PROCESS

Proposals will be evaluated using the following criteria:

- Experience with projects of similar scope and size
- Experience in environmental permitting and agency coordination
- Experience with streambank restoration
- Experience with stream water quality enhancements
- Suitability of the proposed project approach and scope of services
- Cost-effectiveness of proposed fee

PROPOSAL FORMAT:

1. **PROPOSED SCOPE OF SERVICES:** Provide a Scope of Services that outlines, in detail, the services to be provided by the Consultant under this contract which shall include, at a minimum, each of the items described in the “Scope of Services” section above.
2. **PROJECT SCHEDULE:** Outlining the sequence and duration of all project activities. We anticipate construction of the project will be completed by **October 2024**.
3. **TEAM EXPERTISE:** Brief description of general qualifications and technical capabilities of the firm or firms as relates to this project, specific evidence of relevant experience, and resumes of at least two but no more than five key personnel that will be available to work on this project.

937.433.5155

www.cwpd.org

mail@cwpd.org

221 N. Main Street
Centerville, Ohio 45459





4. **COMPARABLE PROJECTS:** Summary of at least three recent comparable stream bank restoration or erosion mitigation projects constructed within the past five years, with the following information for each project:

- a. Project name
- b. Project description
- c. Size and scale of geographic area
- d. Project cost (professional fees for design, permitting and/or modeling and total constructed cost for restoration projects)
- e. Project images
- f. Owner reference name, with current contact information

5. **PROPOSED FEE:** Provide a proposed fee schedule for the Scope of Services described in the proposal, listed by six (6) tasks: Engineering and Design, Surveying, Permitting, Construction of Area 3, Area 5, and Area 7 (all listed as separate line item). If subcontractors will be utilized to perform portions of any task, indicate this within a fee table.

DISCLAIMER:

CWPD reserves the right to reject any and all proposals, cancel this solicitation, and to waive any informalities or irregularities in procedure. CWPD accepts no responsibility for any expense incurred by the submitting entity in preparing a proposal.

937.433.5155



www.cwpd.org



mail@cwpd.org



221 N. Main Street
Centerville, Ohio 45459





Ohio Department of
NATURAL RESOURCES

H2Ohio

Ohio River Basin H2Ohio Wetland Grant Program

Information and Application

2022

Application Deadline:

April 1st, 2022

Guidelines for the Ohio River Basin H2Ohio Wetland Grant Program

Introduction and Purpose

H2Ohio is Governor Mike DeWine's initiative to ensure safe and clean water in Ohio. It is a comprehensive, data-driven approach to improving water quality over the long term. H2Ohio focuses on encouraging agricultural best management practices and restoring and enhancing wetlands to reduce nutrients that contribute to harmful algal blooms. ODNR's role in H2Ohio focuses on improving water quality by creating, restoring, and enhancing wetlands throughout Ohio.

H2Ohio was first funded by the Ohio General Assembly with an investment of \$172 million in the 2020-2021 biennium. This funding has allowed H2Ohio to begin the long-term process to reduce phosphorus runoff from the landscape using proven, science-based nutrient management best practices and the creation of wetlands with a water-quality focus. Since the launch of the program in 2019, ODNR has implemented more than 80 natural-infrastructure projects involving over 11,000 acres of ecosystem restoration. These H2Ohio projects emphasize the ecosystem services that wetlands provide -- to slow and store flood water and absorb or remove surface-water nutrients, sediment, and pollutants that negatively affect downstream water bodies. Wetlands are also prized ecosystems because they provide a host of other benefits including critical habitat for migratory birds, threatened or endangered wildlife species, and recreational opportunities for hunters, anglers, birders, and wildlife enthusiasts.

Many of Ohio's current water quality issues took time to develop, and it will take time and effort to reverse course. Continued investment by the General Assembly in the 2022-2023 biennium allows H2Ohio to continue building on its progress. From that investment, ODNR has allocated \$3 million in H2Ohio funding for this grant program within the Ohio River Basin that will yield exceptional water quality improvement benefits.

Grant Basics

This is a **reimbursement** grant program that provides up-to-100 percent project funding for high quality natural-infrastructure projects focused on nutrient reduction and water quality improvement within the Ohio River Basin. This grant program is state funded through Ohio's H2Ohio program and is administered by the Ohio Department of Natural Resources ("ODNR"). Per-project budget must be justified in the application and fall in the approximate range of **\$50,000** to **\$500,000** in requested H2Ohio funding. Projects that cannot be completed with the maximum H2Ohio funding must demonstrate that sufficient additional funding is available to complete the project.

Project Requirements

All projects must be located within an Ohio River Basin Hydrologic Unit Code (HUC) sub-watershed, indicated generally on the figure below in darker blue. The below references can be used to confirm whether a specific potential project area is located within the Ohio River Basin:

[Ohio Watersheds & Drainage Basins Maps: Ohio Department of Natural Resources](#)

[Water Quality and Hydrologic Units in Ohio: Ohio EPA](#)



I. Types of Eligible Ohio River Basin H2Ohio Wetland or Natural-Infrastructure Projects

- Wetland creation
- Hydrologic restoration of wetlands on hydric soils
- Hydrologic enhancement of existing wetlands and floodplains
- Stream and floodplain restoration
- Restoration of forested riparian buffers
- Acid Mine Drainage (AMD) Abatement Projects

II. Ineligible Ohio River Basin H2Ohio Wetland Projects

- Projects with a useful life of less than 15 years
- Projects outside the Ohio River Basin
- Partial projects that cannot be fully funded through the Ohio River Basin H2Ohio Wetland Grant Program and cannot demonstrate the immediate availability of supplemental funding
- Projects limited to the preservation of existing high-quality resources
- Projects that primarily treat invasive species
- Projects that require maintenance costs for wetlands
- Research and/or technology development projects
- Projects that include property acquisition only, without restoration components

H2Ohio funding is available to: Cities, villages, counties, townships, special districts such as park districts, joint recreation boards and conservancy districts, jointly sponsored projects between political subdivisions, and non-profit organizations.

- A. Private landowners are not eligible applicants; however, eligible entities may partner with private landowners on proposed projects. Only the categories of eligible entities listed above can be the grant awardee.
- B. An environmental covenant or similar property protection mechanism is preferred on all project acreage and is required for any private-land agreement. A memorandum of understanding (MOU) must be signed between the private property owner and applicant organization demonstrating a commitment to protect the project property. This must be included in the grant application.

If selected for funding, applicants will be responsible for project management and direct project oversight.

Grant recipients who receive funds are considered to be “suppliers” of the State of Ohio.

Grant recipients need to visit the [Ohio Shared Services Supplier Operations website](#) to create or update their Supplier Information status, to fill out an IRS W-9, and to authorize direct deposit of grant funds.

III. Allowable Costs

A. Basic Concept

The Ohio River Basin H2Ohio Wetland Grant Program is a reimbursable grant program. Except for design or appraisal related activities, any reimbursable costs must be incurred within the project period stipulated by a signed project agreement.

B. Construction/Development Projects

Upon receipt of a signed project agreement provided by the Ohio Department of Natural Resources, development/construction costs are eligible for reimbursement and are incurred at the start of actual work on the project site. Initial master plan costs are not eligible, but applicable construction drawings may be eligible. Construction drawing costs must be incurred within two years of the date of the H2Ohio grant agreement.

C. Acquisition

Acquisition costs are eligible for reimbursement if incurred after the H2Ohio grant contract is executed. Acquisition costs are considered to be incurred on the date when the earliest of any of the following takes place:

1. Participant accepts deed, lease (the lease must be for the minimum of 15 years and be non-revocable) or other conveyance
2. Participant makes full payment for the property
3. Participant makes first payment in a series of payments

Costs of acceptable appraisals and valid incidental costs for the project are eligible for reimbursement only if the grant is awarded.

IV. Administration

A. General Responsibility

ODNR will administer the Ohio River Basin H2Ohio Wetland Grant Program and ensure both the successful performance of the project and the continued operation and maintenance of the established wetlands. ODNR will perform on-site inspections of projects to monitor and ensure compliance with the intent of the program. Further, ODNR and/or its designated partners must have reasonable physical access to the project area to conduct routine on-site monitoring activities that track nutrient reduction and other water quality improvement during the life of the project. This monitoring is for the purposes of tracking, recording, and publishing relevant data to the overall H2Ohio program.

B. Eligible Applicants

1. Political Subdivisions of Ohio
 - a. cities, villages
 - b. counties
 - c. townships
 - d. special districts such as park districts, joint recreation boards, or conservancy districts
 - e. jointly sponsored projects between political subdivisions
2. Non-profit Organizations

C. Acquisition Projects

Acquisition of land and easements may be accomplished through purchase or gift/donation. The fair market value standard will be used as the basic measure for determining H2Ohio funding on acquisitions. **Land transfers from one public agency to another are not eligible for reimbursement. H2Ohio will only reimburse property acquisitions for the amount of property**

needed for the wetland and related upland buffer, and not larger portions of a parcel outside of the wetland and buffer footprint.

D. Development/Construction Project

Developing or constructing a wetland may be accomplished by contract. Project applicants must comply with all applicable state and local requirements regarding contracts and bidding. ODNR reserves the right to require the submission of plans and specifications for any development or construction project selected for funding prior to bidding and construction.

1. Discrimination Prohibited

The applicant-recipient agrees that no person shall, on the basis of race, color, religion, creed, gender, national origin, age, or disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity for which the applicant-recipient receives financial assistance.

2. Ownership

A project applicant must own, have an easement, or have a long-term non-revocable lease for an H2Ohio funded project area. A long-term lease or easement must be for a minimum of 15 years beyond the project closeout date.

3. Securing H2Ohio Investment: Environmental Covenant Requirements

A perpetual environmental covenant or comparable protection mechanism recorded on the project property deed, for the H2Ohio restored area, is always preferred by ODNR where practical. For private-property H2Ohio projects with a proposed grant award greater than \$50,000 a 30-year environmental covenant is an eligibility requirement, and for private-property H2Ohio projects with a grant award greater than \$250,000 a perpetual environmental covenant is an eligibility requirement.

E. Project Evaluation

In selecting projects for funding, the Director of the Ohio Department of Natural Resources has established criteria which must be satisfied by an applicant. Project applications will be prioritized for funding based, in part, on the following scored criteria.

- Project involves the improvement of water quality by reducing pollutant loads via a natural-infrastructure based approach such as wetland creation, hydrologic restoration of wetlands on hydric soils, hydrologic enhancement of existing wetlands, reconnection of a stream with floodplain habitat, creation or restoration of forested riparian buffers, streambank stabilization or restoring natural stream morphology. Acid mine drainage abatement projects are also eligible for funding within this program.
- Project interacts with a surface-water flow path to reduce the downstream loading of pollutants such as nitrogen, phosphorous, sediment, or acid mine drainage in a cost-effective manner.
- Project will be completed no later than June, 30th 2024.
- Project can be maintained for a minimum of 15 years after implementation.

Additional scoring consideration will be given to application for a project that:

- Addresses a known source of water-quality impairment to a public drinking water source, aquatic life use, or recreation use
- Contributes to a water-quality goal outlined in a watershed planning document, i.e. Nine-Element Nonpoint Source Implementation Strategic Plan, Watershed Action Plan, etc.
- Expands or connects with existing wetland, floodplain, riverine or wildlife habitat
- Allows for public access, recreation, outreach, or educational opportunity
- Projects that can be completed within an accelerated timeframe and in a cost-effective manner will be given highest priority

Other criteria established by ODNR may also be used to select projects for funding.

F. Method of Payment

Payments to grantees will be made on a reimbursement basis. Grantees must submit billings showing actual expenditures made in a timely manner.

V. Availability to Users

To the extent a project acquired, developed, and constructed with H2Ohio funding is open to entry and use by the public, all persons regardless of race, color, religion, creed, gender, nationality, age, disability, or residence must be permitted equal access.

VI. Responsibilities After Ohio River Basin H2Ohio Wetland Project Completion

A. Operation and Maintenance

All areas acquired, developed, and constructed with H2Ohio funding must receive adequate maintenance to ensure continuing water quality benefits.

B. Retention

Grantees are obligated for the maintenance and use of the project for a minimum of 15 years beyond project close out.

C. Penalties

Failure to comply with the provisions of the Ohio River Basin H2Ohio Wetland Grant Program shall be considered just cause for ODNR to withhold future payments to a grantee, withhold action on all pending projects of the grantee for the infraction in question, and/or withhold from current or future reimbursements due to the grantee the amount of assistance previously paid out for the project(s). ODNR may also notify other state or federal agencies of the compliance failure.

Failure to complete your project within the required 2-year period may result in a one-time point penalty/reduction applied to a future project application for H2Ohio grant funding.

Frequently Asked Questions

How much money is available through the program?

\$3,000,000 has been allocated to Ohio River Basin H2Ohio Wetland Grant Program. Each individual project should be in the approximate range of \$50,000 to \$500,000 in H2Ohio funding.

Can I make changes to my project after it has been selected for funding?

All proposed grant projects are competitively reviewed and selected based on merit. Under most circumstances, grantees may not deviate from the scope of an approved project. If circumstances arise whereby a grantee requests authorization to revise the scope of an approved project, such changes may be approved at the sole discretion of the Director of ODNR or her designee.

When is the grant deadline?

Applications must be emailed to Rachel.DeNoewer@dnr.ohio.gov by Friday, April 1st, 2022. Applications will only be accepted if they are submitted as one, searchable pdf file. Instructional pages (1-10) do not need to be included.

How are awarded projects selected?

All applications undergo extensive review, which may include a site visit. ODNR staff members review and score all applications. At the completion of this process, award announcements are made.

What is meant by reimbursement?

If your project is selected for funding, you must have adequate funds on hand to pay for costs incurred on your project. Reimbursement requests may be submitted during the grant cycle or upon closeout. Receipts and proof of payment must be submitted with the request. Reimbursement turnaround is estimated at four (4) weeks.

My project proposal includes construction on land that is owned by others. Is this allowable?

All grant-assisted construction projects must be located on property that is owned, leased (minimum 15-year non-revocable lease with 15 years remaining at the time of project closeout) or on an easement held by the applicant. If property negotiations are incomplete at the time of application, a signed letter of intent from the property owner is required. ODNR's H2Ohio Program requires an environmental covenant to be placed on project work completed on private-property.

How long do I have to complete my project?

Do not start your project until you have entered into a formal agreement with ODNR. You should plan to complete your project by June 30th, 2024 at the latest.

What types of equipment purchases are eligible under the Ohio River Basin H2Ohio Wetland Grant Program?

Any equipment purchases must be specifically related to your H2Ohio project and to future maintenance of your project. Equipment cannot be used for other purposes that are not related to project construction and maintenance. An applicant must demonstrate, in a convincing manner, how they will ensure that all purchased equipment will be stored, maintained, and applied only to wetland construction and maintenance. If there is considerable doubt about the ability of the applicant to use purchased equipment

for only project construction and maintenance throughout the life of the equipment, ODNR reserves the right to deny the equipment purchase request.

Who can I contact if I have additional questions?

Rachel DeNoewer
H2Ohio Assistant Program Manager
Ohio Department of Natural Resources
Rachel.DeNoewer@dnr.ohio.gov
614-705-9978

Ohio River Basin H2Ohio Project Application Process & Timeline

1. **SUBMISSION – April 1st, 2022** – The project applicant submits application to ODNR. ODNR staff reviews the proposal to determine the applicant's and project's eligibility and completeness of application. If the application is found to be incomplete or unacceptable, the applicant will be notified. Applicants may be given a limited opportunity to provide missing information.
2. **REVIEW – April 1st through April 30th, 2022** – All eligible proposals are reviewed by ODNR staff. Site visits may be conducted on proposed projects. Project applicants will be contacted if ODNR staff members have questions. Projects are then scored by the review team. When this process has been completed, the Director of ODNR reviews and approves all ODNR funding recommendations.
3. **APPROVAL – May, 2022** – Project applicants are notified in writing of the status of the application(s). ***A selected applicant may not begin a project until a project agreement is executed between ODNR and the applicant.***
4. **AGREEMENT – July 1st, 2022** – A contract is signed to ensure that the applicant will complete the project by June 30th, 2024 and be eligible to receive reimbursement. The contract is between the state (ODNR) and the project applicant. An executed agreement will be sent to the project applicant.
5. **PROJECT IMPLEMENTATION** – The project applicant may proceed with project construction after the grant award agreement is fully executed. Reimbursement requests may be made after funds have been expended.
6. **PROJECT COMPLETION** – Projects should be completed by June 30th, 2024. A site inspection will be made after the project is complete; ODNR staff may also visit the project at any time during construction. A permanent H2Ohio acknowledgement sign will be provided and must be posted in a conspicuous location when the project is complete. ODNR and/or their designee will be granted reasonable access to the project area on a long-term basis as needed to complete pollutant-reduction monitoring for ODNR's informational purposes.

APPLICATION FORM 1

General Project Information

1. Classification of Project Applicant (Check One)

Local Governments

☐ City, Village

☐ County

☐ Township

☒ Park District

☐ Conservancy District

☐ Other (specify) _____

Organizations

☐ Not-for-Profit (501-C3)

☐ Other (specify) _____

2. Centerville-Washington Park District

Name of Agency/Organization

3. 221 N Main Street, Centerville, OH 45459

Address, City, State, Zip Code

4. Ginger Clark Community Engagement Coordinator 937-433-5155 ext 234

Agency/Organization Contact Person

Title

Phone Number

5. 31-0711687 gclark@cwpc.org

Federal Tax ID Number

E-mail address

FORM 1 Continued

Project Title: Holes Creek Restoration and Habitat Enhancement

Project Type: (wetland creation, streambank restoration)

Location (County, Watershed): Montgomery County, Holes Creek Watershed - State Waterbody ID: OH050800020104

GIS Coordinates: 39°39'01.8"N 84°11'03.3"W

Total Funding Request: (\$)309,720.30

Overview:

Grant Park is a 189 acre nature park maintained by the Centerville-Washington Park District (CWPD) that exists on the former country estate of Normandy Farms, and still contains remnants of buildings and structures developed by Richard H. Grant, Sr. Today, the park is surrounded primarily by residential neighborhoods, I-675 to the south, two schools, and a retirement community. The park provides access to protected forests, meadows, prairies, wetlands, and a meandering stream. One of the parks greatest assets that draws thousands of visitors each year is the approximately 2 mile stretch of Holes Creek that meanders through the park. A master plan was completed in 2020 that provided a roadmap, along with recommendations that reflect the voice of the community and the natural environment of Grant Park. The design approach had three (3) primary phases of work: Needs Assessment, Recommendations, and Implementation Strategy, intertwined with a stakeholder engagement plan that provided regular opportunities for community and staff members to participate throughout the design process.

HOLES CREEK RESTORATION:

There are multiple locations along Holes Creek downstream from the Cascades area where the banks have destabilized due to flashy flows and stormwater runoff from surrounding development and multiple stormwater outlets, as well as legacy infrastructure such as old bridge abutments and sewer lines that have forced the creek to realign and carve a new channel. Severe bank erosion from high flows and channel realignment is threatening trail infrastructure and diminishing water quality in those reaches. Many of these structures are identified for removal to improve stream hydrology, water quality, and plant and wildlife populations. We plan to prioritize these locations for streambank stabilization/restoration and channel realignment, to divert the force of flow away from the eroding banks and provide more stable channel morphology. Where possible, improving stream access to riparian floodplain along the creek will help dissipate the energy of high flow events from upstream, further reducing downstream erosion. Soil and structural bioengineering methods such as, but not limited to, live stakes and fascines, vegetated riprap, brush matting, log, tree, rootwad or boulder revetments, and stream barbs are ways to protect streambanks from scour and erosion that can also help restore the physical, biological, and chemical functions and values of the stream. In addition, we will develop stormwater wetlands to provide a creative solution to manage, slow, and clean stormwater more effectively before it enters Holes Creek.

CWPD is currently under contract with Centerville City Schools to purchase two parcels of land at two separate entrances to Grant Park, formerly on school property, so that the land can be preserved and saved from development. These two parcels of land (indicated on the Grant Park Existing Watershed map, Attachment 1) are also located within the Holes Creek Watershed, and are an important piece in the

puzzle for our efforts to protect water quality in our section of Holes Creek and the habitats that depend on that water quality. CWPd has the largest public ownership of riparian habitat on Holes Creek, and acknowledge our responsibility to protect this sensitive area. Specific stream, wetland, and floodplain restoration projects identified through this master planning process on the Potential Restoration & Habitat Enhancement map are referenced by their map legend numbers and attached with this application (Attachment 1). The master plan in its entirety can be found at www.cwpd.org/wp-content/uploads/2021/01/grant-park-master-plan-2021.pdf

Primary and Secondary Benefits: *Limit description to 2-3 paragraphs*

The project will benefit the downstream water quality of Holes Creek and maintain and enhance in-stream and riparian habitat, further improving the park's natural assets. Realigning the channel affords the opportunity to create more access to an existing floodplain the channel has lost connection to, as well as the opportunity to transform the abandoned channel into an oxbow wetland. Creating more sinuosity and floodplain access in the new channel will help reduce the erosive velocity of flows further downstream.

Concrete debris remaining from an old bridge and sewer line are acting similarly to a lowhead dam and causing a backwater condition that is lowering water quality, limiting natural sediment transport, and creating stagnant, poor in-stream habitat. Just upstream of the backwater, the in-stream habitat is in excellent condition, which indicates a significant opportunity for ecological lift should this section of the creek be restored with the debris removed.

In addition to the primary purpose of cleaning and slowing down runoff, stormwater wetlands would create additional native habitat, as well enhancing the recreational and educational experience for park visitors and students.

Project Details

Scope	Details
Other Project Partners:	n/a
Project property ownership: (private, NGO, public)	Centerville-Washington Park District
Party responsible for future maintenance:	Centerville-Washington Park District
Funding source for future maintenance:	Centerville-Washington Park District
Supplemental (non-H ₂ O) funds available:	n/a

Impact	Details
Total site area (acres):	189 acres
Restored area (acres, linear feet):	Wetland: 12,990 sq ft (or 1/3 acre) Streambank restoration: 650 LF
Contributing watershed drainage area:	Holes Creek Watershed

Timelines	Dates
Estimated start to finish (years):	2 years
Earliest start date upon approval:	August 2022
Engineering and Design: (needed, in progress, completed)	In progress

Permitting: (needed, in progress, completed)	If needed
Expected construction start date:	August 2022

FORM 1 Continued

Scope of Work, Deliverables and Timeline

Instructions for completing the scope of work are provided in italicized font. Item headers are provided in bold text. Tasks and Deliverables included here are provided as a template and should be customized to fit your project.

Specific tasks include the following: *Please note that a few sentences to a paragraph of elaboration on each point below is acceptable.*

Task 1 – Conceptual Design:

Deliverable 1 – The Master Plan provided findings and recommendations as summarized above.

Engineering and construction documents from past projects along with the recommendations provided in the master plan provide an excellent reference that can be applied to the identified scope submitted for H2Ohio consideration.

Task 2- Engineering and Design:

If awarded, an RFP will be issued to secure engineering and design services. The firm selected will work with Park District staff to complete

Deliverable 2 –*Final plan set, endorsed by a professional engineer, etc*

Plans and designs are currently being developed by Choice One Engineering for the aforementioned wetland creation.

A final plan set and construction documents for the streambank restoration will be completed by the firm selected by the process described above, if H2Ohio funds are awarded for this project.

Task 3 – Permitting: *Please outline permits needed. For example: Ohio EPA Section 401 Water Quality Certification, US Army Corps of Engineers Section 404 Permit, State Historic Preservation Office Section 106 review*

Permitting requirements will be identified in the design development stage, but all attempts will be made to minimize impact along and within the stream corridor to reduce permitting requirements. Should permits be required, we would possibly need to obtain Ohio EPA Section 401 Water Quality Certification and US Army Corps of Engineers Section 404 Permit.

Deliverable 3 – *Explain permitting compliance.*

If required, park district staff will assist the project engineer with completing and submitting all required permitting documents to ensure compliance.

Task 4 – Implementation: *State how your organization intends to carry out the project and its associated logistics.*

Nick Meyer, Planning and Project Manager for the District, will oversee the project. Nick has extensive experience with all phases of projects of this scope, including permitting and compliance of similar ODNR funded projects.

Deliverable 4 – *Once implementation is complete, what would this look like on the ground?*

Task 5 – Construction Oversight: *Please elaborate on who will be overseeing the construction of the project. Will there be a private firm doing the construction? Will another partner be helping with construction activities?*

Nick Meyer, Planning and Project Manager will be the lead. He will be assisted by an engineering firm that is hired for the project. The project will be publicly bid and executed by a General Contractor who has experience with conventional and natural stream restoration and wetland development techniques.

Deliverable 5: *i.e. as-built drawings of the site by a licensed professional engineer*

To be developed after award.

Task 6 – Project Management:

Deliverable 6: *For H2Ohio funding, periodic progress and financial reporting will be needed.*

Nick Meyer, Planning and Project Manager will be handling the project management functions for this project. Nick has extensive experience with ODNR projects of the scope and size