



2022 319 Application Form - General and Focus Watershed

General Information

Project Name Pattee Creek Riparian Restoration Project

Sponsor Name City of Missoula Stormwater Utility

Registered with the Secretary of State? Y Registered with SAM? Y

Duns # 014313894 Does your organization have liability insurance? Y

Primary Contact Tracy Campbell Signatory John Engen

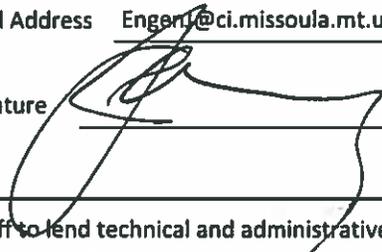
Title Regulatory Compliance Manager Title Mayor

Address 1345 West Broadway St Address 435 Ryman

City Missoula State Zip Code 59802 City Missoula State Zip Code 59802

Phone Number 406-830-5455 Phone Number 406-5526001

Email Address CampbellTL@ci.missoula.mt.us Email Address EngenJ@ci.missoula.mt.us

Signature  Tracy L. Campbell Signature 

Technical and Administrative Qualifications

The City of Missoula Public Works & Mobility Department has many staff to lend technical and administrative support for this project: e.g., professional engineers, administrative assistants, environmental scientist, outreach program specialist, and communications specialist. The City Parks & Recreation Department has expertise in ecosystems services, plant propagation, and public outreach. The Missoula Valley Water Quality District has specialists in geohydrology, water chemistry, and water quality monitoring.

Past Projects

Project Name	Grant or Contract Amount	Funding Entity (entity name/program, contact person, phone, email)	Completion Date
Caras Park Phase 1 Water Quality Improvements	\$ 209,486.54	DNRC Renewable Resource Grant (Jorri Dyer, 406-444-6839, jorri.dyer2@mt.gov) Utility enterprise funds	January 2018
Upper Gharrett Drainage Improvements	\$ 486,870.09	Utility enterprise funds and private lender	October 2020
Caras Park Phase 2 Water Quality Improvements	\$ 868,972.50	DNRC Renewable Resource Grant (Jorri Dyer, 406-444-6839, jorri.dyer2@mt.gov) DEQ State Revolving Fund (Jeremy Perlinski, 406-444-4769, jeremy.perlinski@mt.gov)	Est. January 2022

Budget Summary: *Fields outlined in **black** on this page will auto-populate from other sections of the application form. Fields outlined in **red** on this page will not auto-populate. You must manually input the information for fields outlined in **red**.

	319 Funding Request	Non-Federal Match	Federal Match	Other Funding	Total Cost
--	--------------------------------	------------------------------	--------------------------	--------------------------	-----------------------

Education and Outreach Project

Administration

Project 1 Name

Project Planning & Oversight

Landowner Agreements, O & M

Project Implementation

Other Activities

Project Effectiveness Monitoring

Total

Project 2 Name

Project Planning & Oversight

Landowner Agreements, O & M

Project Implementation

Other Activities

Project Effectiveness Monitoring

Total

Project 3 Name

Project Planning & Oversight

Landowner Agreements, O & M

Project Implementation

Other Activities

Project Effectiveness Monitoring

Total

Project 4 Name

Project Planning & Oversight

Landowner Agreements, O & M

Project Implementation

Other Activities

Project Effectiveness Monitoring

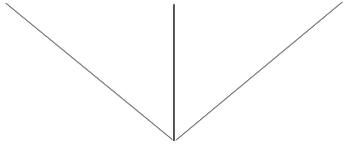
Total

Grand Total

Education and Outreach

DEQ recognizes that developing good projects often requires a considerable amount of time and effort up front to build relationships and trust with individual landowners and stakeholder groups. To promote the development of future projects, DEQ is encouraging project sponsors to use up to \$5,000 in 319 funding for education and outreach to develop and capitalize on these critical relationships. DEQ encourages applicants to incorporate on-the-ground projects into education and outreach efforts through on-site demonstrations and project tours. 319 funding may not be used to pay for food and beverages, or for honorariums and gifts. Education and outreach activities funded by 319 or used as match for 319 funding must adhere to all of the eligibility requirements outlined in the annual Call for Applications document.

Education and Outreach Deliverables *(Identify the education and outreach activities you will engage in and methods you will use to document their completion.)*

	State Cash Match	Local Cash Match	In-Kind Match			
319 Funding Request				Federal Match	Other Funding*	Total Planning Cost
	<hr style="width: 100%;"/>					
	Total Non-Federal Match					
Match Source						Secured
Match Source						Secured
Match Source						Secured
Match Source						Secured

**Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

Project Administration

Project administration includes book keeping, invoicing, interim/annual/final report preparation, office supplies, rent, communications, etc. Up to 10% of the total requested 319 funds for your entire application can be used to pay for project administration. However, like all other tasks, payment is by reimbursement for actual expenses incurred.

Project Administration Deliverables *(Include interim/mid-year, annual, and final reports, as well as invoicing and office necessities.)*

	State Cash Match	Local Cash Match	In-Kind Match			
319 Funding Request				Federal Match	Other Funding*	Total Planning Cost
Match Source					Secured	
Match Source					Secured	
Match Source					Secured	
Match Source					Secured	

**Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

Project Form

A separate Project Form (***including providing separate attachments***) must be submitted for each project included in your application. Use the following examples to help determine when to lump and when to split projects. For additional assistance, contact Mark Ockey at mockey@mt.gov or 406-465-0039.

Splitting Examples (fill out multiple Project Forms)

- Stream restoration work occurring on two separate streams, on parcels owned by two separate individuals
- Two projects with significantly different sets of project partners
- Two projects that address substantially different pollution sources (e.g., one project moves a corral off of a streambank, and another removes mine tailings, with both projects being on the same property)

Lumping Examples

- Contiguous stream restoration work spanning multiple land parcels
- 3 projects that address similar sources of pollution on a single land parcel (e.g., moving a corral off a stream, implementing a grazing management plan, and relocating a manure storage facility out of the floodplain, all on the same ranch)

Project 1 Name

Select the watershed restoration plan (WRP) that your project will help implement.

Letter of support from author entity attached? *(If no, explain why below.)*

Waterbody name from 2020 List of Impaired Waters

Probable causes of impairment to be addressed

Waterbody name from 2020 List of Impaired Waters

Probable causes of impairment to be addressed

OR*

Name of healthy waterbody to be protected

Description of identified threat to non-impairment status

Name of healthy waterbody to be protected

Description of identified threat to non-impairment status

**While the majority of the available 319 project funding is dedicated to addressing known impairments, EPA is allowing states to use a limited amount of funding to protect non-impaired waters (healthy waters) from becoming impaired.*

Project 1 Location

Upstream End Latitude Longitude

Downstream End Latitude Longitude

Centerpoint Latitude Longitude

Upstream End Latitude Longitude

Downstream End Latitude Longitude

Centerpoint Latitude Longitude

Upstream End Latitude Longitude

Downstream End Latitude Longitude

Centerpoint Latitude Longitude

List the 12-digit Hydrologic
Unit Code(s) (HUCs) in which
the project area is located

Project site map(s) attached, showing the location of all proposed on-the-ground restoration activities?

Community Participation and Support

Landowner

Contributions to Project

Letter of
Support
Attached?

Partner

Role

Letter of
Support
Attached?

Other Community/Stakeholder Support

Project Description

Describe the nature and extent of the nonpoint source problem you are trying to address, the root causes of the problem, and your proposed solution.

Is this project a continuation of a previous project? If so, please explain the connection.

Water Quality Benefits and Sustainability

Explain why the project is an appropriate next step for making progress towards removing a pollutant/waterbody combination from Montana's 2020 Impaired Waters List or preventing a healthy waterbody from becoming impaired?

Will your project address a major local source of nonpoint source pollution? Explain.

Will the project create long-term, sustainable reductions in NPS pollution? Explain.

Describe how the project will promote self-maintaining, natural, ecological and social processes that protect water quality?

Nonpoint Source Goals and Success Metrics

Nonpoint source pollution goal Action that will be taken to reach the goal Metrics used to measure success

Project Education and Outreach

Describe the educational benefits of your project. Will the project inspire additional nonpoint source pollution prevention work within the watershed?

Bigger Picture Benefits

NPS pollution projects often have benefits that go beyond simply cleaning up Montana's lakes and streams. Describe your project's benefits to each of the items below. If there are no associated benefits, type "NA" for "not applicable".

Environmental Justice (EJ)

Will the project improve or create public access to a healthy environment?

Will the project have a public benefit in a county where 15% or more of the population lives below the poverty level?
Counties include: Big Horn, Blaine, Chouteau, Deer Lodge, Garfield, Glacier, Golden Valley, Hill, Lake, Liberty, Lincoln, Meagher, Mineral, Musselshell, Pondera, Powell, Roosevelt, Rosebud, Sanders, Silver Bow, Toole and Wheatland.

Will the project benefit historically underserved populations (e.g. minority populations, people with disabilities)?

Climate Change

Will the project improve climate change resilience for communities, native plants, wildlife or ecosystems?

Will the project restore or protect cool, late-season flow?

Impacts to Downstream Communities

Will the project reduce pollutant loading above a permitted point source discharge in a way that could increase assimilative capacity in the the receiving water?

Will the project help protect a drinking water source?

Tasks and Budget

DEQ uses a standard template to develop scopes of work for 319 contracts. The tasks below match up with DEQ standard scope of work template. Some tasks might not be applicable to your project. Please leave the non-applicable tasks blank. If your project doesn't fit the task outline, use the task labeled "Other" to describe your project.

Task 1 - Project Planning Deliverables *(Include such things as completing project designs, conducting site evaluations, obtaining permits, organizing volunteers, conducting scoping meetings, etc. Identify specific deliverables that will be submitted.)*

	State Cash Match	Local Cash Match	In-Kind Match			
319 Funding Request				Federal Match	Other Funding*	Total Planning Cost
	Total Non-Federal Match					
Match Source					Secured	
Match Source					Secured	
Match Source					Secured	
Match Source					Secured	

**Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

Landowner Agreements, Operation and Maintenance

This task only applies to projects involving on-the-ground activities. DEQ periodically evaluates the effectiveness of each on-the-ground project. To accomplish this, DEQ requires a process be in place to allow periodic access to the project site. The landowner agreement should also specify the roles of each project partner in the design, implementation and continued operation of on-the-ground pollution prevention practices. DEQ does not require the use of a specific landowner agreement template. In some situations, existing agreements between the project sponsor and the landowner may be sufficient.

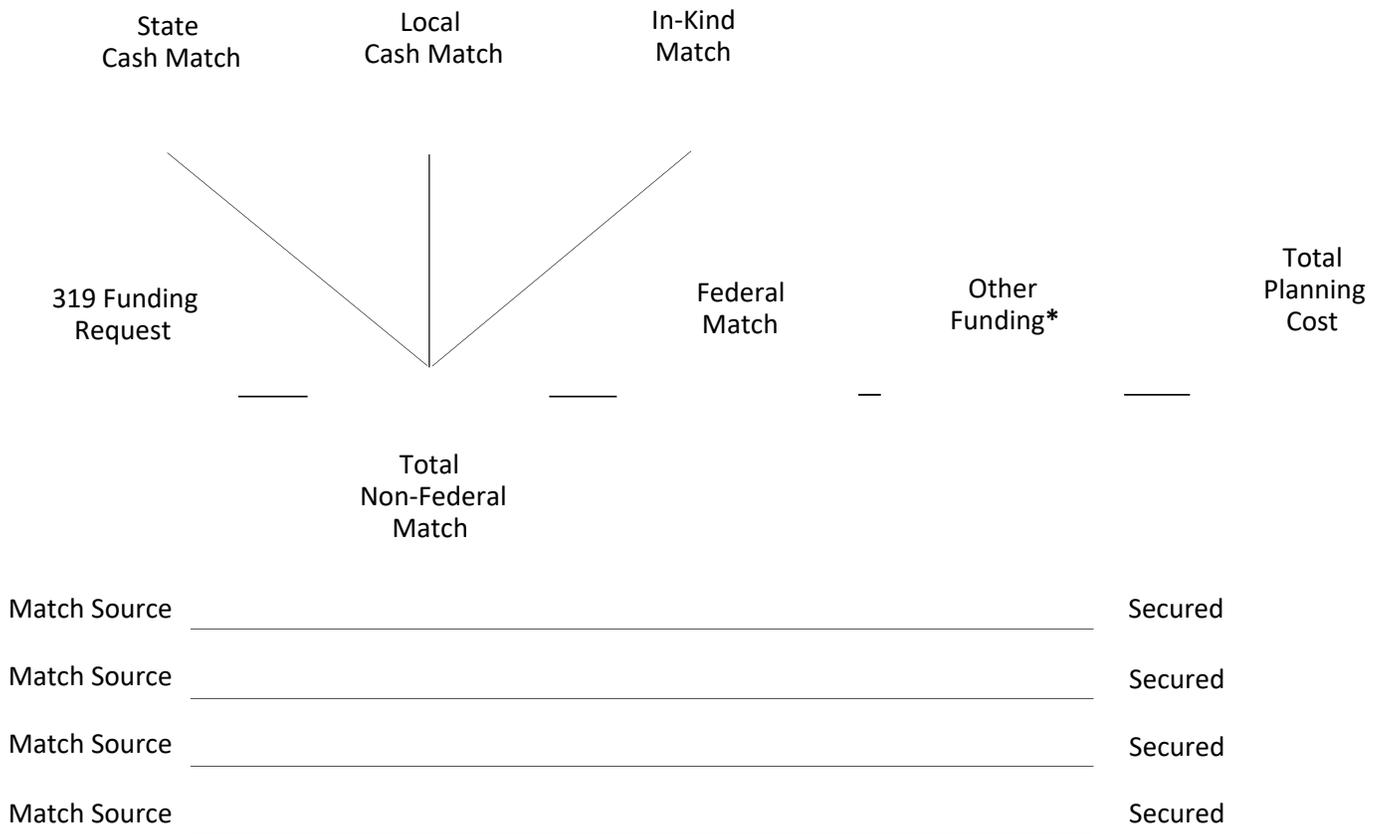
Task 2 - Landowner Agreements, Operation and Maintenance Deliverables *(Include such things as landowner/ sponsor communication, and draft and final agreements.*

	State Cash Match	Local Cash Match	In-Kind Match			
319 Funding Request				Federal Match	Other Funding*	Total Planning Cost
	Total Non-Federal Match					
Match Source					Secured	
Match Source					Secured	
Match Source					Secured	
Match Source					Secured	

**Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

Project Implementation

Task 3 - Project Implementation Deliverables (Include such things as construction oversight, implementation of on-the-ground restoration practices, preparation and submittal of as-built drawings, etc.)



**Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

Other Activities

Use this task if the activities you are proposing are outside the scope of the typical design/implement/monitor process. Provide sufficient details to enable application reviewers to successfully compare the nonpoint source pollution reduction benefits of your project to those of other projects in the applicant pool.

Task 4 - Project Deliverables (Include activities you will complete and the products you will submit to demonstrate completion.)

	State Cash Match	Local Cash Match	In-Kind Match			
319 Funding Request				Federal Match	Other Funding*	Total Planning Cost
	Total Non-Federal Match					
Match Source					Secured	
Match Source					Secured	
Match Source					Secured	
Match Source					Secured	

**Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

Project Effectiveness Monitoring

The short duration (1-3 years) and limited spatial extent (often just a few hundred yards) of most 319-funded projects frequently precludes the use of traditional water chemistry monitoring as a means of evaluating project effectiveness. Instead, DEQ encourages project sponsors to use simpler, more qualitative tools. Typically, this will include pre- and post-construction photo point monitoring, vegetation mortality measurements, and perhaps modeling to estimate pollution load reductions. Please contact one of the DEQ Nonpoint Source Program staff for guidance relative to your specific project.

Task 5 - Project Effectiveness Monitoring Deliverables *(Identify the specific tools and products you will use to evaluate and demonstrate the effectiveness of your project in reducing nonpoint source pollution.)*

	State Cash Match	Local Cash Match	In-Kind Match			
319 Funding Request				Federal Match	Other Funding*	Total Planning Cost
	Total Non-Federal Match					
Match Source					Secured	
Match Source					Secured	
Match Source					Secured	
Match Source					Secured	

**Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

Additional Attachments

Attach additional items that could help reviewers better understand your project. Items could include site photos, design drawings, site evaluations, permits, etc. Please be conscious of reviewers' time, as they may not have time to read lengthy studies and reports. List all additional attachments below.

Additional information that could assist reviewers in evaluating the project's potential impact on NPS pollution.

Project Map

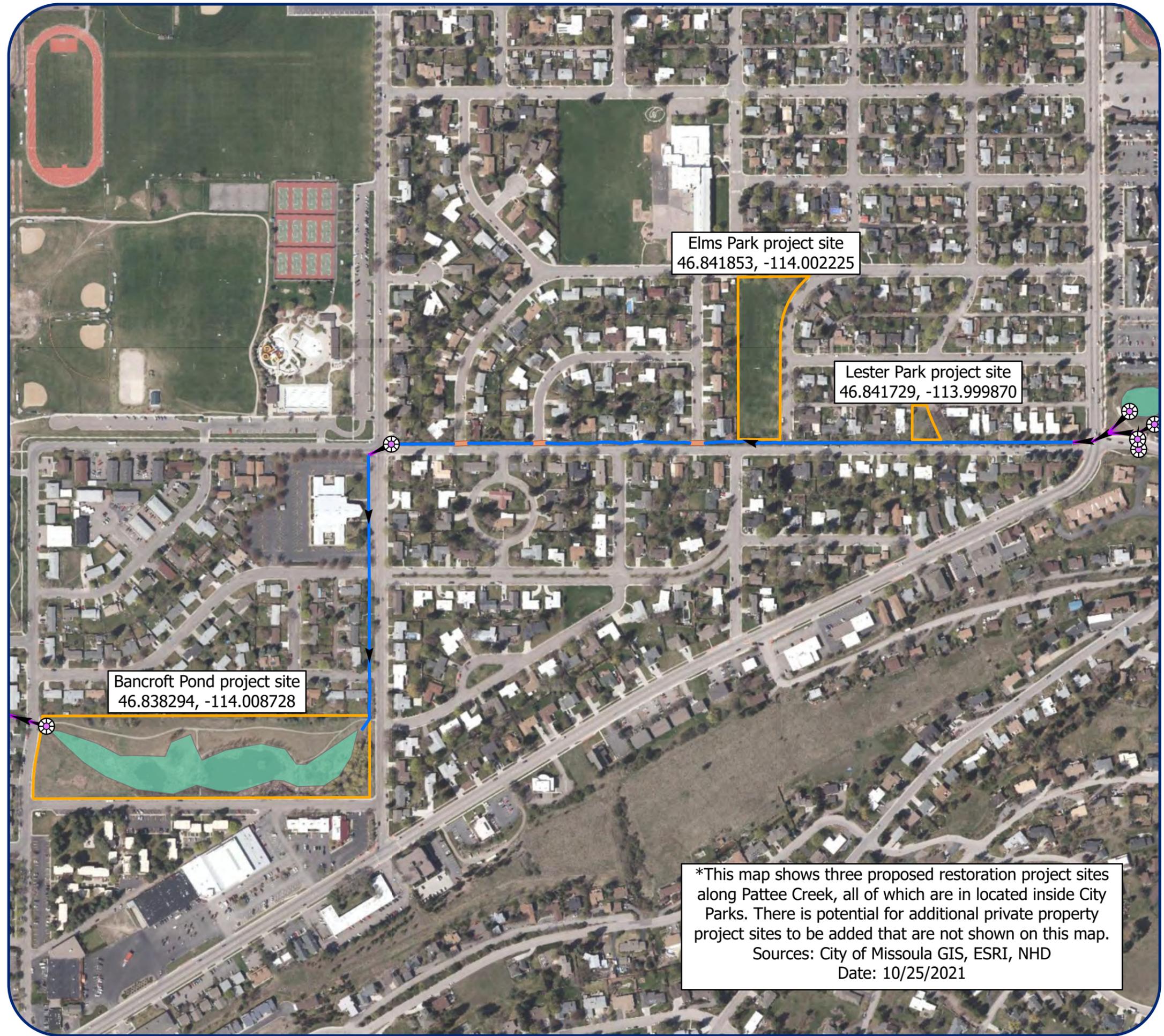
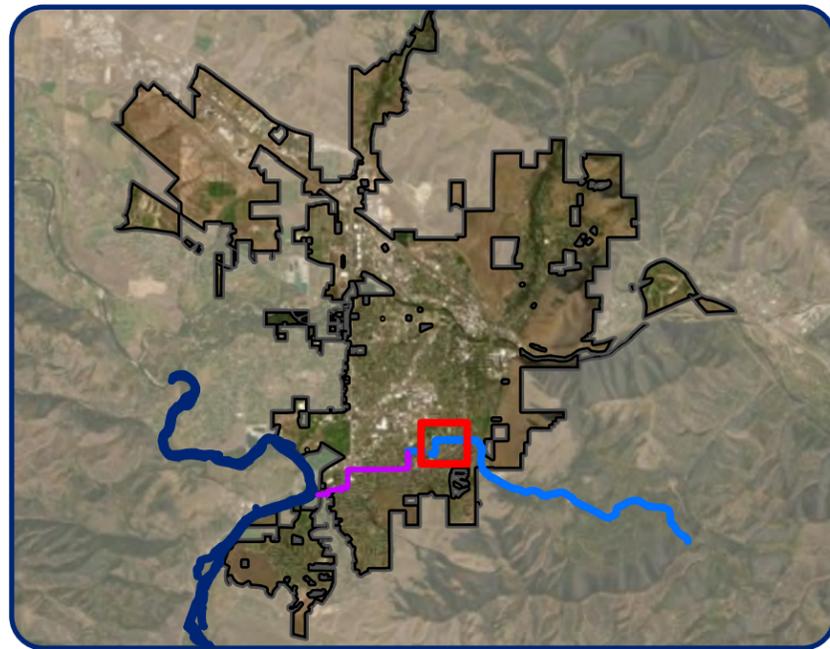
STORM WATER

City of Missoula



Pattee Creek Proposed Activity Sites Map

- Pattee Creek
- Bitterroot River
- Inlet
- Culvert
- Gravity Main
- Detention Pond
- Project Site Parcel Boundary
- City Limits
- Extent Indicator



*This map shows three proposed restoration project sites along Pattee Creek, all of which are located inside City Parks. There is potential for additional private property project sites to be added that are not shown on this map.
Sources: City of Missoula GIS, ESRI, NHD
Date: 10/25/2021

Letters Of Support



Missoula City-County Health Department

WATER QUALITY DISTRICT

301 W Alder | Missoula MT 59802-4123

www.missoulacounty.us/wqd

Phone | 406.258.4890

Fax | 406.258.4781

October 26, 2021

319 Review Committee
Montana Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620

RE: Missoula Stormwater Utility 319 Grant Application: Pattee Creek Riparian Restoration Project

Dear 319 Review Committee,

The Missoula Valley Water Quality District would like to extend our support for the Pattee Creek Riparian Restoration Project. This effort goes above and beyond any requirements of the MS4 and will play an important role in decreasing loading to the Bitterroot. Additionally, it will restore aspects of ecological function important to improving local groundwater quality. Education and outreach opportunities stemming from this project will enable local landowners to understand the role and impact they can have in water quality efforts. Our strong partnership on previous collaborations make us confident this is a project that will result in meaningful, on the ground water quality improvements and encourage you to fund this project.

Thank you for the opportunity to demonstrate our support for this project.

Sincerely,

A handwritten signature in cursive script that reads "Elena Evans".

Elena Evans
Missoula Valley Water Quality District



Board of Directors

Charlie Larson
President

Ed Snook
Vice President

Scott Ziegenfuss
Secretary

Doug Nation
Treasurer

Laura Carrasco

Debbie Gantz

Alex Hibala

Estelle Shuttleworth

Jim Striebel

Agriculture Advisors

Dan Huls

Dan Severson

Executive Director

Heather Barber

**Communications +
Outreach Manager**

Katie Vennie

Restoration Coordinator

Andrea Price

PO Box 1247
178 S 2nd St
Hamilton, MT 59840

(406) 375-2272

brwaterforum.org

DEQ 319 Panel

October 26, 2021

Dear Panel Members,

The Bitter Root Water Forum is writing to offer its support of the Department of Public Works & Mobility Pattee Creek project.

This letter was requested from us as the authors of the Bitterroot WRP. Though we were only recently introduced to the proposed project, it appears to be inline with the goals as stated in the Pattee Creek portion of the WRP (authored by the Clark Fork Coalition).

Regards,

A handwritten signature in black ink that reads "Heather Barber".

Heather Barber
Executive Director

Clean Water for the Bitterroot



DEPARTMENT OF PARKS & RECREATION

ECOSYSTEM SERVICES DIVISION

100 Hickory St ♦ Missoula MT 59801 ♦ (406) 552-6253 ♦ (406) 327-2140 ♦ www.missoulaparks.org
CONSERVATION LANDS MANAGEMENT URBAN FORESTRY

To: 319 Program Grant Administrator
US Environmental Protection Agency

From: Jeff Gicklhorn, Conservation Lands Program Manager
City of Missoula Parks and Recreation
100 Hickory Street
Missoula, MT 59801

Re: Letter of support for City of Missoula 319 grant application

Dear Grant Administrator,

This letter is in support of the EPA 319 Program grant submitted by City of Missoula, Public Works - Stormwater Division for improvements to a reach of Pattee Creek within Missoula City limits. Within this reach, Missoula Parks & Recreation manages approximately 1,700 linear feet split between two small developed parks and the much larger Bancroft Ponds Natural Area. Bancroft Ponds is an engineered wetland that provides stormwater filtration as well as significant aquatic habitat for native species, including one of the few remaining Columbia spotted frog populations in the Missoula Valley. In addition, this park provides valuable learning opportunities for members of the public and local school children through an outdoor classroom and interpretive signage to be constructed and installed this winter.

Improving stormwater flow and reducing non-point source pollutants within this portion of Pattee Creek through education, outreach, and restoration activities will improve water quality both within Bancroft Ponds and downstream in the Bitterroot River. Funds from the 319 Program will be used to purchase and grow native plants for planned restoration activities as discussed in the proposal. Conveniently, the Parks & Recreation Department has our own native plant nursery, and the ability to grow and supply native plant materials at rates significantly below that of local commercial nurseries, which can stretch limited grant dollars. We look forward to assisting City of Missoula, Public Works - Stormwater Division in reducing non-point source pollutants into Pattee Creek by working to implement on-site restoration and adjusting management practices within City parks.

If you have any additional questions about anything discussed above, please do not hesitate to reach out via email at GicklhornJ@ci.missoula.mt.us or phone at (406) 552-6691.

Thank you,

Jeff Gicklhorn



MISSOULA CONSERVATION DISTRICT

Missoula Conservation District
3550 Mullan Rd. Unit 106
Missoula, MT 59808

October 28, 2021

Watershed Protection Section
Montana Department of Environmental Quality
1520 E. Sixth Avenue
P.O. Box 200901
Helena, MT 59620-0901

Dear Members of the Watershed Protection Section of DEQ:

Over the past year, the Missoula Conservation District and the City of Missoula Stormwater Utility began dialog about how to preserve or enhance water quality and protect riparian habitat in our overlapping jurisdictions. We were pleasantly surprised to learn about the Utilities' forward-thinking conservation focus and are grateful for this valuable partnership as many of our goals and objectives coalesce with those of the City of Missoula Stormwater Utility.

Pattee Creek is a hard stream for the Conservation District to help and will need a diverse partnership to restore. The challenges we face are that our regulatory authority is not enough to protect the Creek, and the mosaic of landownership is such that our methods of citizen-based voluntary conservation don't apply. The most impaired portion of the Creek is in need of so much help that the District's Board of Supervisors have relinquished their authority to oversee Montana's Natural Streambed and Land Preservation Act on that reach. Without a team leader such as the City of Missoula Stormwater Utility, it is doubtful if any entity could help restore this stream to its full potential.

The Missoula Conservation District respectfully endorses the City of Missoula Stormwater Utility funding request as it will increase their capacity to implement conservation objectives throughout Pattee Creek. A publicly led restoration effort on this biologically significant stream would be a hallmark of local restoration, and would not only protect water quality and biodiversity, but add a beautiful resource for the citizens of Missoula. We ask that DEQ please be a part of this partnership and financially support the City of Missoula Stormwater Utility's grant proposal.

Sincerely, 

Radley Watkins, Resource Conservationist

Supplemental Information



