Alaska Department of Environmental Conservation



Alaska Clean Water Actions

Request for Proposals

State Fiscal Years 2023-2025

(March 2023 - February 2025)

Table of Contents

In	troduction	3
	RFP Action Categories	3
	Project Timing	3
	How to Apply	4
	Deadline	4
	Application Appendices	4
	Staff Contacts	4
	Acronyms	5
1.	Restoration and implementation of BMPs Including Green Infrastructure	6
	Action Description	6
	Eligible Waterbodies	7
2.	Watershed Planning	9
	Action Description	9
	Eligible Waterbodies	10
3.	Public education and outreach	12
	Action Description	12
	Eligible Waterbodies	13
4.	Monitoring for nonpoint source pollution and/or BMP effectiveness	15
	Action Description	15
	Eligible Waterbodies	16
5.	Marine BEACH pathogen monitoring	18
	Action Description	18
	Eligible Waterbodies	18

Introduction

The Alaska Clean Water Actions (ACWA) program, a collaboration between the Alaska Department of Environmental Conservation (DEC) and the Alaska Departments of Fish and Game (DF&G) and Natural Resources (DNR), works to set priorities for water quality, habitat, and quantity issues statewide. This Request for Proposals (RFP) contains the requested Actions for the 2023-2025 ACWA grant cycle.

These Actions will help Alaska meet its milestones under the 2021-2025 Nonpoint Source (NPS) Strategy to protect and restore Alaska's water quality from the harmful effects of nonpoint source pollution.

RFP Action Categories

Proposals are requested for projects in the following Action categories:

Action Category	Eligible Statewide	Priority Waters*
1. Restoration and implementation of BMPs Including Green Infrastructure	Yes	Lake Lucile; Wasilla Creek; Chester Creek; Kenai River; Noyes Slough; Chena River; Jordan Creek; Ketchikan area watersheds; Noatak River
2. Watershed planning	Yes	Soldotna Creek; Wasilla Creek; Eyak Lake; Salcha River; Aleknagik Lake; Nome area waters
3. Public outreach and education	Yes	Noyes Slough; Chena River; Lake Lucile; Kenai River watershed; Aleknagik Lake; Ketchikan area watersheds; Clean Boating/Harbors
4. Monitoring for nonpoint source pollution and/or BMP effectiveness	No	Cottonwood Creek; Eagle River; Ketchikan area creeks (Ketchikan, Hoadley, Carlanna Creeks); Aleknagik Lake
5. Marine BEACH pathogen monitoring	Yes	Skagway; Valdez; Kodiak

^{*} DEC reserves the right to assign bonus points to projects that address priority work within these waters/watersheds.

Contact the staff person listed below or in the following action descriptions in order to get specific details on the work requested so that your proposal has the best chance of being funded.

Project Timing

This request for proposals covers a two year calendar period which spans three state fiscal years (SFY). Projects may start no earlier than March 1, 2023 and must be completed by February 28, 2025. Projects may end prior to February 28, 2025, but cannot go beyond that date.

- SFY 23 (March 1, 2023 June 30, 2023)
- SFY 24 (July 1, 2023 June 30, 2024)
- SFY 25 (July 1, 2024 February 28, 2025).

How to Apply

Completed application packages must be submitted online via the fillable form. If you are applying for more than one project, please submit separate applications. DEC will host an informational webinar on October 12, 2022 from 2:00 PM - 3:00 PM. Details to join the webinar are on the ACWA RFP webpage.

There are several pieces to the application package available on the ACWA RFP webpage:

- 1. Application fillable form with sections for attachment uploads.
- Workplan templates for the Action Category most representative of your project. The workplan
 describes tasks and project deliverables. Once filled out you will need to upload it with your
 online application.
- 3. Budget Spreadsheet template for estimated expenses and description for each state fiscal year. Once filled out you will need to upload it with your online application.

Deadline

All applications must be submitted online by **11:59 PM on November 9, 2022**. Late applications will not be reviewed.

Application Appendices

Additional information on eligibility, funding available, and other important grant information may be found in the following appendices available on the ACWA RFP webpage.

- A. Grant Requirements
- B. Administrative Guidelines and other Grant Conditions
- C. Budget Guidance
- D. Estimated Funding and Sources
- E. Proposal Evaluation Criteria

Staff Contacts

Department of Environmental Conservation					
Laura Eldred 907-376-1855 <u>laura.eldred@alaska.gov</u> ACWA Program		ACWA Program Manager			
Sarah Durand	907-451-2347	sarah.durand@alaska.gov	Fairbanks, Northern, Interior		
Sarah Apsens	907-262-3411	sarah.apsens@alaska.gov	Kenai Peninsula, Western, Kodiak; and BEACH		
Ashley Oleksiak	907-376-1865	ashley.oleksiak@alaska.gov	Anchorage, Mat-Su, Copper River Basin		
Gretchen Augat	907-465-5023	gretchen.augat@alaska.gov	Southeast and BEACH		
Sarena Hackenmiller	907-465-5146	sarena.hackenmiller@alaska.gov	Grants Administration		
Department of Fish ar	nd Game				
Leah Ellis	907-267-2404	leah.ellis@alaska.gov	Statewide		
Department of Natural Resources					
Tom Barrett	907-269-8645	tom.barrett@alaska.gov	Statewide		

Acronyms

ACWA Alaska Clean Water Actions

AWQMS Ambient Water Quality Monitoring System

BEACH Beaches Environmental Assessment and Costal Health

BMP Best Management Practice
CFR Code of Federal Regulations

CWA Clean Water Act

DBE Disadvantaged Business Enterprise

DEC Department of Environmental Conservation

DF&G Department of Fish and Game
DNR Department of Natural Resources
EPA Environmental Protection Agency

FFY Federal Fiscal Year

FSR Financial Status Report GI Green Infrastructure

LID Low Impact Development

MBE/WBE Minority/Women's Business Enterprise

MST Microbial Source Tracking

NPS Nonpoint Source

OMB Office of Management and Budget

ORV Off-road Vehicle

QAPP Quality Assurance Project Plan

RFP Request for Proposals

SFY State Fiscal Year

TMDL Total Maximum Daily Load

WQS Water Quality Standards at 18 AAC 70

1. Restoration and implementation of BMPs Including Green Infrastructure

Action Description

This action includes design, installation, and maintenance of stormwater green infrastructure projects.

Proposals for this action may include one or more of the following:

A. Planning: Identify areas within the community that would receive the highest benefit from low impact development (LID) techniques such as green infrastructure projects. This includes those areas most at risk from current and past development patterns and those of highest environmental value (e.g., salmon streams).

B. On-the-ground projects:

- Design: Complete a design of a green infrastructure (or other best management practice)
 project. Projects may range from re-design of existing gray infrastructure to green
 infrastructure, developing a community-specific design book for green streets and parking lots,
 capturing and treating stormwater runoff in a new area, and other similar work. Design should
 include a calculation of the environmental benefit (e.g., amount of reduced stormwater run-off).
- 2. Construction: Construct one or both of the following:
 - a. Demonstration project that includes an educational component. The project will allow for a permanent opportunity for local citizens, including elected officials, to see firsthand the value of implementing green infrastructure. The project should be designed to encourage local officials to require LID/green infrastructure (i.e., through adoption in local land use codes).
 - b. Large-scale LID/green infrastructure project. Applications should include an estimate of the amount of stormwater retained and sediment reduced on-site and a commitment from the landowner to maintain the project.
- 3. Maintain: All constructed projects must have a maintenance agreement as a deliverable.
- 4. Other BMPs: There are many types of BMPs that can help reduce nonpoint source pollution and protect or improve water quality in area waterways. Your proposal must describe how the BMP addresses nonpoint source pollution, which type of pollutant(s) it will address, and which waterbody(ies) the project will benefit.

C. New ordinances: Develop draft ordinance(s) to protect water quality (e.g., draft set back or riparian protection ordinance language; LID inclusion in land use codes) for adoption by local governments. To be eligible for funding, the grant proposal must include project partners (including local planners) to help develop the draft ordinance. The applicant must present the completed draft ordinance to local planning board/commission or other city/borough decision-making body.

Templates to use:

- Work plan Template Restoration and implementation of BMPs
- Budget Template

Waterbody Name (Location)	Action Description	Contact
Statewide (Any)	Proposals will be accepted for any Alaska waterbody in this Action Category.	Regional contact (see page 4)
Chester Creek (Anchorage)	Work with Municipality of Anchorage, landowners, and other partners to design and install a stormwater green infrastructure project on Chester Creek. Project cannot include activities required under the MS4 stormwater discharge permit requirements.	Ashley Oleksiak 376-1865
Jordan Creek (Juneau)	Work with City/Borough of Juneau, landowners, and other partners to design and install up to three stormwater BMPs (with educational outreach) as described in the <u>Jordan Creek Watershed Management Plan</u> . Preferred locations are described in the plan for Stormwater System 3.2, 9.2 and 10.3.	Gretchen Augat 465-5023
Ketchikan area watersheds	A. Work with City of Ketchikan, Ketchikan Gateway Borough, Ketchikan Indian Community, and other partners to develop and adopt new ordinance for a stream-side setback that would apply to future (re)development with educational outreach, and prepare a riparian condition assessment with recommendations for stormwater control measures, as described in the Ketchikan Watershed Management Plan https://dec.alaska.gov/water/nonpoint-source-control/water-quality-resources/reports B. Work with City of Ketchikan, Ketchikan Gateway Borough, Ketchikan Indian Community, and other partners to explore and potentially adopt new ordinance for a proof-of-pump-out program for the Ketchikan harbors with an educational outreach campaign, as described in the Ketchikan Watershed Management Plan https://dec.alaska.gov/water/nonpoint-source-control/water-quality-resources/reports	Gretchen Augat 465-5023
Kenai River (Kenai)	The proposed project may include one or more of the following: prioritization of sites for future green infrastructure implementation and/or implementation of a green infrastructure project design and installation with outreach campaign targeted to multiple audiences (e.g., homeowners, municipalities, businesses) explaining the benefits of incorporating green infrastructure elements on their properties.	Sarah Apsens 262-3411
Lake Lucile (Wasilla)	Work with the City of Wasilla Public Works and other partners as needed, to design and install one or more of the identified stormwater BMPs (with educational	Ashley Oleksiak 376-1865

	outreach) as described in the <u>City of Wasilla's Lake Lucile</u> Lake Management Plan.	
Wasilla Creek (Wasilla)	Work with the Matanuska-Susitna Borough and other partners to design, install, and maintain one or more green infrastructure BMPs to reduce polluted stormwater runoff from entering Wasilla Creek as described in Wasilla Creek Stormwater Analysis (2019). The project should include educational outreach on the benefits of green infrastructure techniques.	Ashley Oleksiak 376-1865
Noyes Slough (Fairbanks)	Design, install, and maintain BMPs, including green infrastructure, that target the reduction of pet waste and litter along sidewalks, bike paths, and popular recreational areas directly adjacent to urban areas of the Chena River and the Noyes Slough. Cooperative and/or maintenance agreements with landowners should be included as needed. Project cannot include activities required under the MS4 stormwater discharge permit requirements within the Fairbanks North Star Borough.	Sarah Durand 451-2347
Chena River (Fairbanks)	This project will implement one or more of the actions proposed in the <u>Chena River Water Resources Action Plan</u> 's Objective 4 to reduce nonpoint source pollution on the Lower Chena River, Noyes Slough, and/or Chena Slough that promotes attaining and maintaining DEC water quality standards. Project cannot include activities required under the MS4 stormwater discharge permit requirements within the Fairbanks North Star Borough.	Sarah Durand 451-2347
Noatak River (Noatak)	Coordinate a trash/debris cleanup effort for the near shore area of the Noatak River where the road has eroded and the old landfill is spilling trash and debris towards the Noatak River endangering the community drinking water intake. Determine longer term solution to prevent future debris/trash deposits.	Sarah Durand 451-2347

2. Watershed Planning

Action Description

Watershed planning uses a holistic planning process to determine steps to take for water quality protection or improvement and can take many forms.

For watersheds with water quality impairment, DEC recommends following EPA's 9-element watershed planning process. For watersheds without water quality impairment or where little water quality data exists, a water quality protection based plan may be more appropriate. See DEC's Watershed Planning Guidance for more information on the different types of plans and their minimum requirements.

The watershed plan should document and evaluate options for reducing water pollution including innovative approaches such as green infrastructure and other similar measures. Watershed planning proposals must include a final watershed plan as a project deliverable.

If the watershed includes a surface water used by a public water system (PWS), the surface water source should be described and actions that protect the source water should be included. To review PWS source locations, please visit the Interactive Public Map. For more information on drinking water protection plans, please visit DEC's Drinking Water Endorsed Plans.

As you develop your application, the watershed plan (and planning process) should consider, but not be limited to:

- Partnership development
 - Identification of key stakeholders
 - Public involvement
- Watershed characterization
 - o Inventory existing information and identify data gaps
 - Identify sources or potential sources of pollution
 - Estimate pollutant loads (9-element watershed plan)
- Discussion of goals and solutions
 - Include work needed to implement each option (e.g., field assessments, new ordinances)
 - Projected pollutant reductions and benefits to receiving waterbody (9-element watershed plan)
 - Other environmental and public health benefits associated with each option, including aesthetic appeal and community support
- Implementation plan and timeline
 - o Rough cost estimates and potential funding sources
 - Potential partners for implementation and long-term maintenance needs

Templates to use:

- Work plan Template Watershed Planning
- Budget Template

Waterbody Name	Action Description	Contact
Statewide (Any)	Proposals will be accepted for any watershed in this Action Category.	Regional contact
Eyak Lake (Cordova)	Eyak Lake is adjacent to the Copper River Delta and partially within the City of Cordova. The lake was previously listed as impaired, and recently there have been other water quality concerns. Developing a watershed plan will help clarify potential water quality issues and prevent future pollution. The plan must meet the minimum elements outlined in DEC's Watershed Planning Guidance.	Ashley Oleksiak 376-1865
Wasilla Creek (Wasilla)	The Wasilla Creek watershed is one of the rapidly developing areas of the Matanuska-Susitna Borough. Headwaters are within the Moose Range and are experiencing degraded water quality from ORV trail crossings. Downstream urban and suburban development is threatening water quality with polluted runoff. Developing a watershed plan for Wasilla Creek now may help protect it from further pollution and habitat degradation. The plan must meet the minimum elements outlined in DEC's Watershed Planning Guidance.	Ashley Oleksiak 376-1865
Salcha River (Fairbanks area)	The Salcha River watershed is a popular area near Fairbanks with cabins, mining, multiple recreation opportunities, and an important salmon fishery. Past watershed planning efforts were initiated but not completed. This project will complete a watershed protection plan and involve multiple stakeholders. The plan must meet the minimum elements outlined in DEC's Watershed Planning Guidance.	Sarah Durand 451-2347
Aleknagik Lake (near Dillingham)	Aleknagik Lake in southwest Alaska is a popular recreation area and host several lodges, residences, and the community of Aleknagik. Information on water quality conditions in Aleknagik Lake is currently limited. This project will engage with multiple stakeholders to develop a watershed protection plan for Aleknagik Lake. The plan must meet the minimum elements outlined in DEC's Watershed Planning Guidance.	Sarah Apsens 262-3411
Soldotna Creek (Soldotna)	Soldotna Creek is lowland tributary of the Kenai River that historically supported a large native fish population before invasive Norther Pike were discovered and eradicated. Today Soldotna Creek faces increased anthropogenic pressures from development within the City of Soldotna and surrounding areas. The grantee will work with partner organizations to develop a Soldotna Creek watershed plan to address current and future water quality pressures. The plan must meet the minimum elements outlined in DEC's Watershed Planning Guidance.	<u>Sarah Apsens</u> 262-3411

Nome Water Quality Data Inventory including Anvil, Dry, and Glacier Creeks, and Nome and Snake Rivers

This action completes the first phase for watershed planning and should include the following:

Sarah Durand 451-2347

- A. Inventory: Research and collect all available water quality background information for selected waterbodies in the Nome area (Anvil Creek, Dry Creek, Glacier Creek, Nome River and Snake River). This project involves collection of existing data and does not include collection of any new field data. The data inventory must include the following:
 - Review published water quality reports and available data including databases; request unpublished information from local governments and organizations, universities, State and Federal agencies, tribes, and others;
 - Contaminant source inventory and description of nonpoint source pollutants and potential sources;
 - Evaluation of current land use; and
 - Compilation of major historic and current state and federally permitted activities in each watershed.
- B. **Prepare Report:** Once the information is collected, compile the information and prepare a draft and final annotated bibliography and project report. The annotated bibliography must be submitted to DEC for review at least 6 months prior to the report completion. The final report must include:
 - a. A summary of historical data, identification of data gaps, and recommendations for future data collection and community planning;
 - An annotated bibliography with summaries of all information/data sources (including unpublished information and personal communications).
- C. Develop Geographic Information System (GIS)
 Geodatabase: The applicant will develop a GIS
 geodatabase demonstrating spatial relationships with
 current land use, permitted activities, potential pollution
 sources, topographic contours, surface water hydrology,
 and historical and current water quality monitoring
 locations. The geodatabase must be provided in
 NAD83/Alaska Albers. Deliverables include an ArcGIS
 geodatabase and map(s).

3. Public education and outreach

Action Description

Public education and outreach on ways to protect or improve water quality from nonpoint source pollution is a vital aspect of the ACWA grant program. Proposals in this Action Category are fully focused on public outreach and education on a variety of topics.

Educate the public on water quality and smart practices to prevent nonpoint source pollution. The proposed campaign must promote using practices to reduce nonpoint source water pollution, use several outreach mechanisms, and be designed to reach as many users as possible. Proposed outreach campaigns should focus on one or more of the following nonpoint source pollution issues (or waterbody specific issues in the table below):

General nonpoint source: Proposals will promote using best management practices such as green infrastructure for reduction of pollution from homes and businesses.

Clean Harbors and Clean Boating: Proposals will promote the use of pump-outs to reduce sewage pollution in harbors by engaging recreational and commercial boaters, harbor staff, and harbormasters. Proposals may also include outreach to reduce petroleum hydrocarbon pollution from marine and freshwater boats and personal use watercraft.

Bacteria (residential septic systems): Proposals will include content from EPA's Septic Smart (EPA Septic Smart page) to promote a statewide or regional campaign.

Proposed outreach campaigns must include <u>all</u> of the following components:

A. Planning: Develop an outreach plan that includes the following components:

- a. Goal(s)
- b. Objectives
- c. Key messages
- d. Stakeholders and target audience(s)
- e. Communication activities and tools (Any new outreach materials developed should use existing materials to the maximum extent possible).
- f. Timeline for implementation
- g. Measures of success (such as pre and post target audience surveys to gauge whether the outreach has impacted their actions or other method of measuring whether the outreach messaging has impacted their actions)
- **B. Implementation:** Use several outreach mechanisms designed to reach as many users as possible.
 - a. Provide education on the impacts of pollution to waterbody health and on ways to reduce this pollution.
 - b. Participate in area sport or home shows or other public venue (where available/applicable) with a staffed outreach booth to reach target audience.
 - c. Include method(s) to demonstrate measurable results.
- **C. Final Report:** Include a final project report that describes the outreach activities that took place, public response and an evaluation of success of the messaging in reaching the target audience and

affecting a desired behavior change (e.g. not dumping marine sewage near shore). The report should also include recommendations for future effective outreach activities.

Templates to use:

- Work plan Template Public education and outreach
- Budget Template

Waterbody Name	Action Description	Contact
Statewide (Any)	Proposals will be accepted for outreach projects located in any watershed or near shore marine area in the state.	Regional contact
Clean Harbors/Clean Boating	Proposals will promote the use of pump-outs to reduce sewage pollution in harbors by engaging recreational and commercial boaters, harbor staff, and harbormasters. Proposals may also include outreach to reduce petroleum hydrocarbon pollution from marine and freshwater boats and personal use watercraft.	Sarah Apsens 262-3411
Noyes Slough/Chena River (Fairbanks)	Noyes Slough is in the Chena River watershed. A TMDL for residues (debris/trash) was completed for Noyes Slough in 2008 (Noyes TMDL). Past projects that included analysis of waste inventory from annual stream cleanups (data available from DEC) can help target outreach efforts to reduce litter, pet waste, and other debris from Noyes Slough and areas of the Chena River. Outreach and education should emphasize radio ads, online videos, permanent signage, or other means that do not include flyers, brochures, or mass mailings.	Sarah Durand 451-2347
Aleknagik Lake (near Dillingham)	Aleknagik Lake in southwest Alaska is a popular recreation area and host several lodges, residences, and the community of Aleknagik. Information on water quality conditions Aleknagik Lake is currently limited. The proposed project will include an outreach and education campaign on ways to reduce nonpoint source pollution to protect or improve the lake's water quality. The outreach messaging should be designed to target multiple audiences.	Sarah Apsens 262-3411

Kenai River watershed

Ketchikan area watersheds

The proposed project will develop an outreach campaign to address sources of nonpoint source pollution within the greater Kenai River watershed. The outreach campaign will focus on one or more of the following stakeholder groups: homeowners, real estate developers, business owners, recreational users, agriculture operations and hobby farms, municipalities. The proposed project will include development and implementation of one or more outreach actions.	Sarah Apsens 262-3411
A. Work with City of Ketchikan, Ketchikan Gateway Borough, Ketchikan Indian Community, and other partners to develop and implement a public education campaign to increase awareness about the impacts of not properly disposing of pet waste, and install/maintain doggy doo bag stations at strategic locations, as described in the Ketchikan Watershed Management Plan https://dec.alaska.gov/water/nonpoint-source-control/water-quality-resources/reports B. Work with City of Ketchikan, Ketchikan Gateway Borough, Ketchikan Indian Community, and other partners to design and install educational kiosks at harbor pump-out stations and ferry terminals, as described in the Ketchikan Watershed	Gretchen Augat 465-5023

ACWA Grant: March 2023- February 2025

Management Plan https://dec.alaska.gov/water/nonpoint-

source-control/water-quality-resources/reports

4. Monitoring for nonpoint source pollution and/or BMP effectiveness

Action Description

Monitoring projects are waterbody specific and must be designed to meet DEC's data objectives. Applicants are encouraged to work with DEC on the sampling design, timing, and parameters. See the DEC Integrated Report page for information on assessment and listing methodologies and requirements.

Proposals for this Action should include the following:

A. Planning: Develop a Sample Plan and Quality Assurance Project Plan (QAPP) for approval by DEC (contact for examples).

B. Monitoring: Conduct ambient water quality monitoring to evaluate NPS pollution or BMP effectiveness. The following parameters <u>may</u> be required (<u>see Action Description in table below for project specific parameters</u>):

Water Column (Field)*	Water Column (La	boratory)	Sediment (Laboratory)
 Turbidity (SM 20 2130B) Specific conductance (SM 2510) Temperature (EPA 170.1) Dissolved oxygen (1003-8-2009) pH (SM 4500-H+) 	 Basic Chemistry Dissolved organic carbon (SM 5310B) Settleable Solids (EPA 160.5) Total solids (SM 2540G) Ammonia-N (EPA 350.1) Total nitrate and nitrite-N (EPA 353.2) Hardness (EPA 200.7) Major cations – Ca, Mg, Na (EPA 200.7), total and dissolved K (SM 4500) Major anions – SO4, Cl (EPA 375, 325) Alkalinity (SM 2320B) Sulfide (EPA 376) Dissolved metals (EPA 200.8) 	 Fecal coliform (SM 9222-D by membrane filtration) E. coli (SM 9223B) Microbial Source Tracking (qPCR) Petroleum Products Total Aromatic Hydrocarbons (TAH)(EPA Method 624) Total Aqueous Hydrocarbons (TAqH) (EPA Method 625) Polycyclic Aromatic Hydrocarbons (PAH) (EPA Method 625) 	Total metals (EPA 6010D) Polycyclic Aromatic Hydrocarbons (PAH) (EPA 8270-SIM)

^{*}Continuous or grab samples, see Action description and contact appropriate staff person for details.

C. Reporting: The grantee will analyze all samples, evaluate results, and prepare a draft and final report of findings and conclusions.

D. Data submission: The grantee is responsible for ensuring data collected is provided in a format that can be easily transferred to DEC's water quality database (AWQMS). DEC will provide the grantee with the needed data template for AWQMS and guidance on how to use the template. The grantee should budget time to complete data QA, data entry, and address data questions as DEC imports the data template to AWQMS.

Templates to use:

- Work plan Template Monitoring of nonpoint source pollution and/or BMP effectiveness
- Budget Template

Waterbody Name	Action Description	Contact
Statewide (NONE)	Proposals <u>will not</u> be accepted for additional waterbodies or regions in this Action Category.	
Cottonwood Creek (Wasilla)	Since Cottonwood Creek was listed as impaired due to excessive fecal coliform bacteria pollution (Cottonwood TMDL), DEC has funded several BMP projects in the watershed. This project will collect water samples to determine if water quality is improving. Project must include analysis for all Field parameters (grab or in-situ measurements), Bacteria (including MST), and Basic Chemistry. Monitoring must meet DEC's guidance documents.	Ashley Oleksiak 376-1865
Eagle River	In 2020-2021 DEC conducted a survey of 19 Anchorage lakes and streams to determine if water quality had improved on waters currently listed as impaired for bacteria and to assess if other waterbodies within the Municipality of Anchorage were attaining water quality criteria for pathogens. Eagle River is not currently listed as impaired for pathogens, yet in both years exceeded water quality criteria for fecal coliform bacteria. This project will conduct water quality monitoring at three to five sampling locations on Eagle River focused on Bacteria and basic Field data. Sample frequency will meet DEC's requirements of a minimum of 5 samples per 30-day period plus replicate samples and additional samples for QA/QC purposes. Sample design should include spring break up, summer baseflow, storm flows, and fall time periods. Sample locations will include locations sampled by DEC in 2020-2021 as well as additional locations to determine longitudinal extent of bacteria pollution. All sampling must follow a DEC approved QAPP and data analysis procedures. Grantee will enter and submit data to DEC in approved format.	Ashley Oleksiak 376-1865

Carlanna Creek, Hoadley Creek, Ketchikan Creek (Ketchikan)	Design and implement a water quality monitoring project for Ketchikan, Carlanna, and Hoadley Creeks for pathogens and stormwater runoff pollutants (metals) as described in the Ketchikan Creeks Waterbody Field Report. The project will collect Field, Basic Chemistry, and Bacteria parameters for analysis and reporting. Monitoring must meet DEC's guidance documents.	Gretchen Augat 465-5023
Aleknagik Lake (near Dillingham)	Aleknagik Lake in southwest Alaska is a popular recreation area and host several lodges, residences, and the community of Aleknagik. Information on water quality conditions in Aleknagik Lake is currently limited. The proposed monitoring project will focus on Bacteria (<i>E. coli</i> and fecal coliform) and Field parameters. Sample frequency will meet DEC's requirements of a minimum of 5 samples per 30-day period plus replicate samples. Sample design should include sample events throughout summer months at a minimum of two sampling locations in areas of most concern in the lake. All sampling must follow a DEC approved QAPP and data analysis procedures. Grantee will enter and submit data to DEC in approved format.	Sarah Apsens 262-3411

5. Marine BEACH pathogen monitoring

To be considered for BEACH program funding, proposals <u>must</u> demonstrate local government support and involvement.

Action Description

The proposal for this Action should include the following tasks and deliverables:

- A. **Planning**: Develop a project specific Beach Survey, Beach Monitoring Handbook, and Quality Assurance Project Plan (QAPP) for DEC review and approval. Examples are available from DEC.
- B. **Monitoring**: Conduct near-shore marine water quality monitoring during recreational use season for bacteria at recreational beaches.
 - 1. Design beach sampling program from mid-May through mid-September.
 - 2. Collect marine water samples for fecal coliform bacteria and enterococci using the DEC-approved QAPP.
 - 3. Submit samples for analytical testing to a DEC-approved laboratory within the required sample holding time.
 - 4. Complete the EPA Marine Beach Sanitary Survey using project specific field data sheets, chain-of-custody forms, and site photos at each monitoring location for each monitoring event.
 - 5. Conduct sampling for Microbial Source Tracking (MST) one time per beach during the recreational beach monitoring season.
- B. **Notify:** Deliver monitoring results to DEC within 4 hours of lab result receipt. If confirmed water quality criteria exceedance, assist DEC with beach advisory notifications.
- C. **Outreach**: Conduct educational outreach event to communicate the beach program prior to recreational season, and beach results and findings following the recreational season.
- D. Reporting:
 - 1. Following each sampling event, deliverables include analytical data, sanitary surveys, chain-of-custody forms, and site photos.
 - 2. Analyze all samples, evaluate results, and prepare a draft and final report of findings and conclusions. DEC can provide a reporting template for use.
- E. **Data Submission:** Insert all monitoring data into DEC-provided template for submission into DEC's water quality database (AWQMS).

Templates to use:

- Work plan Template Beach program
- Budget Template

Waterbody Name	Action Description	Contact
(Location)		
Statewide (NONE)	Proposals will not be accepted for additional waterbodies or	
	regions in this Action Category.	

Kodiak beaches (Kodiak)	Monitor up to three recreational marine beaches every week during the 2023 and 2024 recreation seasons for fecal coliform and enterococci bacteria; conduct one microbial source tracking sampling event per season per beach. Prepare final reports at the end of each season. Conduct two educational outreach events per year (start and end of season). Project also includes developing a project QAPP, field handbook, and submitting project data to DEC in a provided data template.	Sarah Apsens 262-3411
Skagway beaches (Skagway)	Monitor up to five recreational marine beaches (Small Boat Harbor, Yakutania Point West Pocket Beach, Airport Beach, Smuggler's Cove Beach, and Nahku Bay Beach) every week during the 2023 and 2024 recreation seasons for fecal coliform and enterococci bacteria; conduct one microbial source tracking sampling event per season per beach. Prepare final reports at the end of each season. Conduct two educational outreach events per year (start and end of season). Project also includes developing a project QAPP, field handbook, and submitting project data to DEC in a provided data template.	Gretchen Augat 465-5023
Valdez beaches (Valdez)	Monitor up to two recreational marine beaches every week during the 2023 and 2024 recreation seasons for fecal coliform and enterococci bacteria; conduct one microbial source tracking sampling event per season per beach. Prepare final reports at the end of each season. Conduct two educational outreach events per year (start and end of season). Project also includes developing a project QAPP, field handbook, and submitting project data to DEC in a provided data template.	Gretchen Augat 465-5023