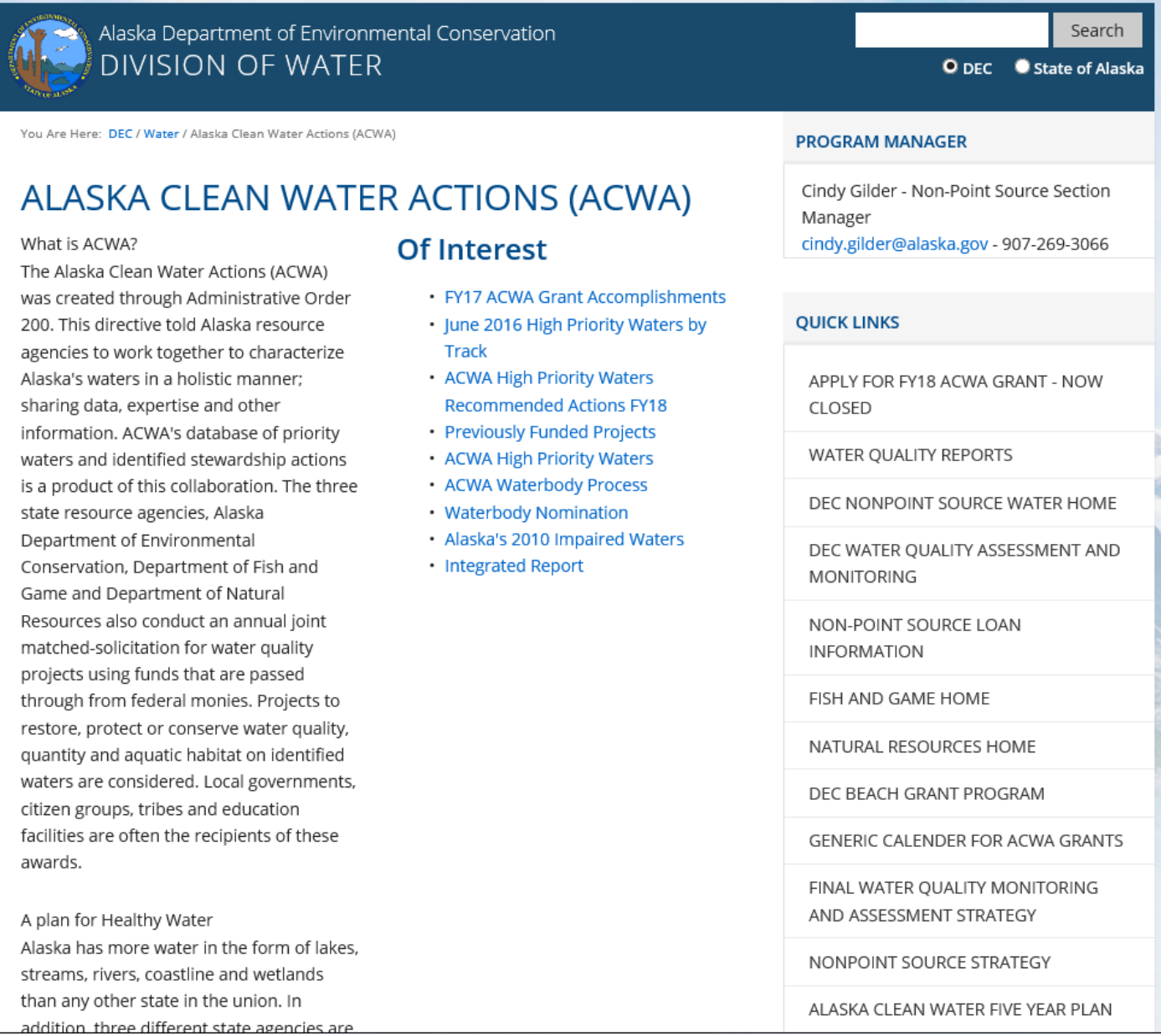
Alaska Clean Water Actions Grant

Gretchen Pikul
Division of Water — Water Quality Standards, Assessment, and Restoration Program
Alaska Department of Environmental Conservation



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DIVISION OF WATER

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ALASKA CLEAN WATER ACTIONS (ACWA)

What is ACWA?
The Alaska Clean Water Actions (ACWA) was created through Administrative Order 200. This directive told Alaska resource agencies to work together to characterize Alaska's waters in a holistic manner; sharing data, expertise and other information. ACWA's database of priority waters and identified stewardship actions is a product of this collaboration. The three state resource agencies, Alaska Department of Environmental Conservation, Department of Fish and Game and Department of Natural Resources also conduct an annual joint matched-solicitation for water quality projects using funds that are passed through from federal monies. Projects to restore, protect or conserve water quality, quantity and aquatic habitat on identified waters are considered. Local governments, citizen groups, tribes and education facilities are often the recipients of these awards.

A plan for Healthy Water
Alaska has more water in the form of lakes, streams, rivers, coastline and wetlands than any other state in the union. In addition, three different state agencies are

Of Interest

- FY17 ACWA Grant Accomplishments
- June 2016 High Priority Waters by Track
- ACWA High Priority Waters Recommended Actions FY18
- Previously Funded Projects
- ACWA High Priority Waters
- ACWA Waterbody Process
- Waterbody Nomination
- Alaska's 2010 Impaired Waters
- Integrated Report

PROGRAM MANAGER

Cindy Gilder - Non-Point Source Section Manager
cindy.gilder@alaska.gov - 907-269-3066

QUICK LINKS

APPLY FOR FY18 ACWA GRANT - NOW CLOSED

WATER QUALITY REPORTS

DEC NONPOINT SOURCE WATER HOME

DEC WATER QUALITY ASSESSMENT AND MONITORING

NON-POINT SOURCE LOAN INFORMATION

FISH AND GAME HOME

NATURAL RESOURCES HOME

DEC BEACH GRANT PROGRAM

GENERIC CALENDER FOR ACWA GRANTS

FINAL WATER QUALITY MONITORING AND ASSESSMENT STRATEGY

NONPOINT SOURCE STRATEGY

ALASKA CLEAN WATER FIVE YEAR PLAN

ACWA agency contacts

Technical Contacts:

Chandra McGee	907-451-2140	chandra.mcgee@alaska.gov	DEC, Northern/Interior
Laura Eldred	907-376-1855	laura.eldred@alaska.gov	DEC, Mat-Su, Western
Jeanne Swartz	907-269-7523	jeanne.swartz@alaska.gov	DEC, Kenai, Anchorage
Gretchen Pikul	907-465-5023	gretchen.pikul@alaska.gov	DEC, Southeast and BEACH
Jenn Brown	907-465-5043	jennifer.brown@alaska.gov	DEC Grants Administration
Jarrod Sowa	907-465-8493	jarrod.sowa@alaska.gov	DF&G Statewide
David Schade	907-269-8645	david.w.schade@alaska.gov	DNR Statewide

Funding Source & Available Funds

Funding Source	Estimated Amount Available
Clean Water Act	$300,000
BEACH Grant	$95,000
Clean Vessel Act	$50,000

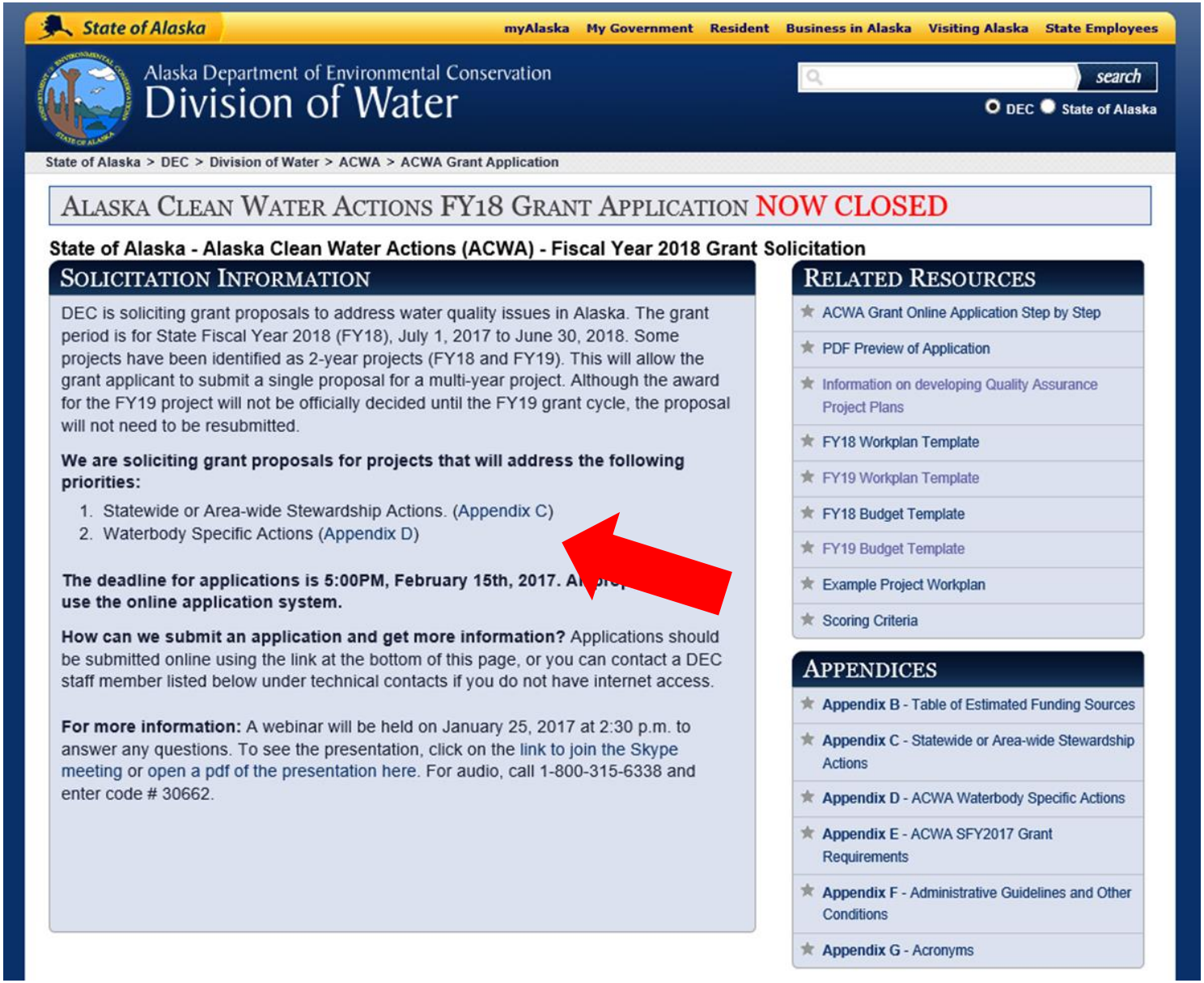
ACWA Grant

Stewardship Projects

- Stewardship actions and Clean Vessel Act funding

Waterbody Projects

- Waterbody specific actions and BEACH Act funding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ALASKA CLEAN WATER ACTIONS FY18 GRANT APPLICATION NOW CLOSED
State of Alaska - Alaska Clean Water Actions (ACWA) - Fiscal Year 2018 Grant Solicitation
SOLICITATION INFORMATION
DEC is soliciting grant proposals to address water quality issues in Alaska. The grant period is for State Fiscal Year 2018 (FY18), July 1, 2017 to June 30, 2018. Some projects have been identified as 2-year projects (FY18 and FY19). This will allow the grant applicant to submit a single proposal for a multi-year project. Although the award for the FY19 project will not be officially decided until the FY19 grant cycle, the proposal will not need to be resubmitted.
We are soliciting grant proposals for projects that will address the following priorities:
1. Statewide or Area-wide Stewardship Actions. (Appendix C)
2. Waterbody Specific Actions (Appendix D)
The deadline for applications is 5:00PM, February 15th, 2017. Al
use the online application system.
How can we submit an application and get more information? Applications should be submitted online using the link at the bottom of this page, or you can contact a DEC staff member listed below under technical contacts if you do not have internet access.
For more information: A webinar will be held on January 25, 2017 at 2:30 p.m. to answer any questions. To see the presentation, click on the link to join the Skype meeting or open a pdf of the presentation here. For audio, call 1-800-315-6338 and enter code # 30662.
RELATED RESOURCES
ACWA Grant Online Application Step by Step
PDF Preview of Application
Information on developing Quality Assurance Project Plans
FY18 Workplan Template
FY19 Workplan Template
FY18 Budget Template
FY19 Budget Template
Example Project Workplan
Scoring Criteria
APPENDICES
Appendix B - Table of Estimated Funding Sources
Appendix C - Statewide or Area-wide Stewardship Actions
Appendix D - ACWA Waterbody Specific Actions
Appendix E - ACWA SFY2017 Grant Requirements
Appendix F - Administrative Guidelines and Other Conditions
Appendix G - Acronyms

Appendix C

Stewardship Actions

1. Increase amount known about Alaska's water
2. Restoration of Impaired Waters
3. Highlight and Protect Healthy Waters
4. Educate the Public on Water Quality and Smart Practices
5. Clean Boating in Alaska
6. Develop and Implement Shoreline and Riparian Area Restoration Projects

Clean Vessel Grant

- Alaska Clean Harbors – harbor certification
  http://alaskacleanharbors.squarespace.com/
  Chandra McGee chandra.mcgee@alaska.gov

- Clean Boating – boater outreach
  http://www.boatus.org/
  Laura Eldred laura.eldred@alaska.gov

Appendix D

Waterbody Specific Actions

1. Specific actions for current year's ACWA grant solicitation

2. DEC-identified marine beaches for BEACH program

SFY2018

Waterbody Specific Actions	
Anchor River (Anchor Point)	Kenai River (Soldotna - Kenai)
Campbell Creek (Anchorage)	Ketchikan Creeks (Ketchikan)
Chena River (Fairbanks)	Lake Lucille (Wasilla)
Cottonwood Creek (Wasilla)	Nome Area Streams: Anvil Creek, Dry Creek, Glacier Creek, Nome River and Snake River (Nome)
Deshka River (tributary to Susitna River)	Noyes Slough (Fairbanks)
Beaches	
Kenai River Beaches (Kenai)	Rotary Beach Park and Settlers Cove State Recreation Site Beaches (Ketchikan)
Middle and East Beaches (Nome)	

Waterbody Specific Action solicitation

Waterbody: Ketchikan Creeks (Ketchikan)

DEC Contact: Gretchen Pikul, gretchen.pikul@alaska.gov or (907) 465-5023

Water Quality Goal

To conduct a second year of water quality monitoring and optional biotic community to assess stream health and evaluate potential trends.

Water Quality Concern and Background Information

Carlanna, Hoadley and Ketchikan Creeks are in the Data Collection and Monitoring Track with water quality and habitat being primary concerns. The waterbody is in the 2012 Integrated Report as Category 3 - data or information is insufficient to determine whether the Water Quality Standards (WQS) for any designated uses are attained. The waterbody has numerous outfalls, surface runoff, and stream bank and flow modifications. The baseline assessment titled (*Ketchikan Creeks: Stormwater Quality Assessment* (August 2014) http://dec.alaska.gov/water/wqsar/reports.html) concluded that ammonia and fecal coliform concentrations exist above WQS, suggesting a wastewater source. Meta concentrations of copper, zinc, and lead in the water column exceeded WQS. Copper and cadmium in creek sediments exceeded acute and chronic toxicity screening levels from the National Oceanic and Atmospheric Administration (NOAA) Screening Quick Reference Tables (SQuiRT). Data show a decreasing trend in stream health. In addition, Juvenile Coho salmon were found with atypical par markings (cause undetermined).

Solicited Action to Help Reach Goal

The grantee will update the Quality Assurance Project Plan (QAPP)/Sampling Plan using the first year baseline study results and DEC's Listing Methodology for Determining Water Quality Impairments from Pathogens (http://dec.alaska.gov/water/wqsar/waterbody/integratedreport.htm In order to complete a monitoring plan within one field season (during the same calendar year), the sampling plan should include sampling events in spring, summer and fall 2018. At minimum, the monitoring must capture all of the components included in the first year baseline study with the following changes: no polyaromatic hydrocarbon sediment analytical tests are required, *Escherichia coli* (E.coli) water analytical tests must be conducted in addition to fecal coliform testing, and the sediment monitoring must be designed to evaluate sediment concentrations in creek segments with and without storm drain sediment basins. Sample locations must mirror the locations from the baseline assessment (total of 7-10 creek samples, 3-5 outfall samples and 3 background references) and capture all flow regimes (spring flow, summer base flow and fall storm event).

In addition, the grantee must include sampling and analysis for all the parameters necessary for the EPA's Biotic Ligand Model https://www.epa.gov/wqs-tech/copper-biotic-ligand-model, such as temperature, major aquatic cations (Ca^{2+}, Mg^{2+}, Na^{+}, and K^{+}), major aquatic anions (Cl^{-} and SO_4^{2-}), sulfide, pH, alkalinity, and dissolved organic carbon. The grantee must use laboratory analytical method 1603 for *E. coli* in water by membrane filtration using modified mTEC (Standard Methods for Water and Wastewater, 21st or online edition).

Proposals may include biotic assessments to document stream health and determine if parr marks or Coho salmon fry are abnormal or a normal variation. A separate budget should be prepared for the biotic assessment work.

- The grantee will prepare a draft and final report evaluating results against state water quality standards and NOAA sediment screening levels. The report should include potential pollutant sources, data evaluation, QA review, conclusions and recommendations to address any parameters that exceed water quality standards or NOAA screening levels. The grantee will also provide narrative and tabular/graphical formats to evaluate the monitoring results. Incorporate all project data and appropriate references in the report appendices.
- The grantee will review the analytical data and enter the data into a DEC-provided Excel spreadsheet template.
- The grantee will also develop a Geographic Information System (GIS) geodatabase demonstrating spatial relationship between residential/public waste treatment and septic, topographic contours, surface water hydrology, potential on-site pollution sources, and beach survey data; provide the data in NAD83/Alaska Albers.

The grantee will conduct meetings and/or teleconferences with the community, Ketchikan Indian Association, City of Ketchikan, and Ketchikan Gateway Borough before and after sampling to discuss the sampling plan and results. A letter of project support must be provided from the City of Ketchikan and Ketchikan Gateway Borough. All necessary permits will be obtained by the grantee.

This project is eligible for two year funding. The project continuation in state fiscal year 2019 is contingent upon DEC approval.

Project proposals must use the solicitation's work plan template for Objectives, Tasks, and Deliverables and the financial spreadsheet template for detailed costs per task based on the requested action http://dec.alaska.gov/water/acwa/onlineACWAapp.htm. Use the templates to prepare separate work plans for each State fiscal year [FY 2018 (July 1, 2017-June 30, 2018); and FY 2019 (July 1, 2018 – June 30, 2019)].

Project Schedule:

- Fall 2017: QAPP/Sampling Plan
- Spring, Summer, and Fall, 2018: monitoring program
- June 2018: ArcGIS geodatabase and map, and interim project report
- June 2019: final report

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Division of Water

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Water Quality Standards, Assessment, & Restoration

Welcome to the DEC Water Quality Reports Inventory - NEW

Among all states in the U.S., Alaska places highest in almost every category related to water. Alaska has more than 40% of the entire nation's surface water resources including over three million lakes, over 12,000 rivers, thousands of streams and more coastline than the rest of the U.S. put together.

The DEC's Water Quality Standards, Assessment, and Restoration program works to maintain and protect Alaska's water quality for human health and environmental quality. This includes water quality sampling and other water quality related projects conducted throughout the state. This web page presents a searchable list of water quality study results that were funded in full or in part by DEC. Please check back often as we will continue to add to this list.

Other Resources

- Approved TMDLS
- Alaska Clean Water Actions (ACWA)
- APDES Permitting
- Contaminated Sites Database
- Drinking Water Protection

SEARCH: jordan creek Start typing to search any column in the table below.

FILTER: Select All Select region to filter by.

SORT: Click on a column header to sort table.

OPEN: Click on a report name to open document.

Region	Waterbody	Year	Report Title (click to open)	Author
Southeast	Duck and Jordan Creek	2010	Testing Alaska's macroinvertebrate- and diatom-based stream condition indices in select urbanized streams	Environmental and Natural Resources Institute and Alaska Natural Heritage Program, University of Alaska Anchorage
Southeast	Duck and Jordan Creek	2005	Duck and Jordan Creek Protection Recovery	Department of Natural Sciences, University of Alaska Southeast
Southeast	Jordan Creek	2015	Jordan Creek Green Infrastructure Project Final Report	Southeast Alaska Watershed Coalition / Juneau Watershed Partnership
Southeast	Jordan Creek	2008	Watershed Protection and Recovery for Jordan Creek, Juneau, AK	Department of Natural Sciences, University of Alaska Southeast
Southeast	Jordan Creek	2007	ATV Trail Mapping in Jordan Creek Watershed FY2006-2007	Juneau Watershed Partnership
Southeast	Jordan Creek	2007	Watershed Protection and Recovery for Jordan Creek, Juneau, AK	Department of Natural Sciences, University of Alaska Southeast
Southeast	Jordan Creek	2006	Watershed Protection and Recovery for Jordan Creek, Juneau, AK	Department of Natural Sciences, University of Alaska Southeast
Southeast	Jordan Creek	2006	Jordan Creek Watershed Recovery and Management Plan	U.S. Department of Agriculture - Natural Resources Conservation Service (NRCS)
Southeast	Jordan Creek	2005	Duck and Jordan Creek Protection Recovery	Department of Natural Sciences, University of Alaska Southeast
Southeast	Jordan Creek	2002	Jordan Creek Waterbody Assessment	Engineering Department, City and Borough of Juneau
Southeast	Jordan Creek, Montana Creek, and Mendenhall River	2004	Mendenhall Watershed Protection and Recovery	Department of Natural Sciences, University of Alaska Southeast

BEACH Grant

- 2000 Beach Environmental Assessment & Coastal Health Act
- 2002 Alaska's BEACH Program
- 15 communities - Haines, Juneau, Kasilof, Kenai, Ketchikan, Petersburg, Wrangell
- http://dec.alaska.gov/water/water-quality/beach-program/

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ALASKA BEACH GRANT PROGRAM

The Alaska Beach Program

In 2002, in response to the authorization of The BEACH Act by Congress, Alaska's BEACH Program was established. Alaska's BEACH Program provides support for communities to begin monitoring marine water quality at high-priority beaches. The program provides grants to local communities, tribal governments, and watershed councils to sample beach water for organisms (fecal coliforms and enterococci bacteria) that indicate the presence of fecal contamination. By notifying the public in the event that a sample exceeds the allowable levels, the program helps to prevent illnesses that could result from exposure to contaminated beach water.

Communities that have participated in the BEACH program include Anchor Point, Anchorage, Dillingham, Douglas Island, Haines, Homer, Juneau, Kasilof, Kenai, Ketchikan, King Salmon, Naknek, Nome, Petersburg, and Wrangell.

Ketchikan Beaches

The Alaska BEACH program was initiated along the Ketchikan coastline to monitor fecal waste contamination during the 2017 recreation season. Marine water samples were collected from July through September to evaluate potential health risks indicated by fecal coliform and enterococci bacteria, and to notify the public when levels exceeded state standards. For more detailed information, click on the 2017 Ketchikan BEACH Monitoring report and press release links below .

2017 Ketchikan Beach Monitoring Report (PDF)

Press Releases

- January 2018 DEC project report press release (PDF)
- September 18, 2017 Ketchikan (PDF)
- August 25, 2017 Ketchikan (PDF)
- August 17, 2017 Ketchikan (PDF)
- August 11, 2017 Ketchikan (PDF)

Identifying Alaskan Beaches

QUICK LINKS

- WHAT IS BEACH GRANT?
- INFORMATION ON STATE FISCAL YEAR 2018 BEACH GRANT
- STATE FISCAL YEAR 2018 ACWA-BEACH GRANT APPLICATION ONLINE NOW CLOSED!
- HOW TO REPORT A SPILL

BEACH PRESS RELEASES

- JANUARY 2018 DEC PROJECT REPORT PRESS RELEASE (PDF)
- SEPTEMBER 18, 2017 KETCHIKAN (PDF)
- AUGUST 25, 2017 KETCHIKAN (PDF)
- AUGUST 17, 2017 KETCHIKAN (PDF)
- AUGUST 11, 2017 KETCHIKAN (PDF)
- SEPTEMBER 21, 2015 PETERSBURG (PDF)
- SEPTEMBER 18, 2015 PETERSBURG (PDF)
- JULY 16, 2014 KENAI (PDF)
- JULY 26, 2013 KENAI (PDF)
- JULY 18, 2011 KENAI (PDF)
- JULY 15, 2010 KENAI (PDF)

OF INTEREST

- PROTECT YOUR HEALTH WHILE DIPNETTING (PDF)
- EPA BEACHES PAGE
- EPA BEACH GRANT PAGE
- CENTER FOR ALASKAN COASTAL STUDIES

BEACH solicitation

Waterbody: Rotary Beach Park and Settlers Cove State Recreation Site Beaches (Ketchikan)

DEC Contact: Gretchen Pikul, gretchen.pikul@alaska.gov or (907) 465-5023

Water Quality Goal

To assess coastal recreational waters for disease-causing microorganisms (enterococci and/or fecal coliform bacteria), and reduce risks of disease to recreational beach users.

Water Quality Concern and Background Information:

Alaska's BEACH Program was established in response to the Beaches Environmental Assessment and Coastal Health (BEACH) Act authorized by Congress, amending the Clean Water Act. The program provides grants and support to local communities, tribal governments, and watershed councils to sample recreational marine beach water for organisms (fecal coliform and enterococci bacteria) that indicate the presence of fecal contamination. The program helps to prevent illnesses that could result from exposure to contaminated beach water, by notifying the public in the event that a beach sample exceeds the allowable levels. More information on the Alaska Beach Program is available on the DEC webpage http://dec.alaska.gov/water/wqsar/wqs/beachprogram.htm.

Rotary Beach Park and Settlers Cove State Recreation Site are high use recreational beaches. Rotary Beach Park is situated close to downtown Ketchikan, and is used by tourists and local residents. The beach is a popular swimming area with a cement causeway allowing tidewaters to enter and warm in a 'protected pond' area. The beach also serves as a cockle harvest area in cooler months. Settlers Cove State Recreation Site includes a campground and public use cabin, and is mainly used by local residents. Recreational activities include kayaking, fishing, and shellfish and kelp harvesting. This is also the site for the Ketchikan Indian Community phytoplankton/shellfish PSP monitoring.

Solicited Action to Help Reach Goal

This project requires that the grantee begin recreational beach monitoring at Rotary Beach Park and Settlers Cove State Recreation to determine if fecal coliform bacteria and enterococcus exceed recreational water quality criteria on these Tier 1 beaches. The goal is to increase public awareness of potential sources and health risks associated with bacterial contamination.

The grantee must also conduct water quality bacteria sampling in May and June 2018 in accordance with a DEC-approved Quality Assurance Project Plan (QAPP)/Sampling Plan and BEACH Monitoring Handbook. An example of a generic QAPP/Sampling Plan and BEACH Monitoring Handbook can be found at http://dec.alaska.gov/water/wqsar/wqs/beachprogram.htm.

The grantee must collect weekly water quality samples for fecal coliform bacteria (SM9222-D by Membrane Filtration) and enterococci (ASTMD-6503-99 by Most Probable Number) during high recreational use periods. The grantee must use a DEC-approved laboratory for analysis. Conduct 7 sampling events between May and June 2019; obtain duplicate samples for each analyte per event. The monitoring season may be adjusted in the event of an exceedance in order to accommodate the need for additional sampling.

The grantee must also conduct sanitary surveys of the beaches and surrounding areas. Photograph the area prior to initiating monitoring and during each sampling event. In addition to fecal coliform bacteria and enterococci analysis, information on EPA mobile app *Marine Beach Sanitary Survey* https://www.epa.gov/beach-tech/beach-sanitary-surveys#app should be completed by the grantee.

The grantee is required to submit sanitary surveys, site photos, chain-of-custody forms, and preliminary analytical data to DEC within 36 hours of sampling. Submit final analytical data within 10 days of sampling.

Communication about the beach program and sampling results to the Ketchikan community is also a part of this project. Communication should include public service announcements via radio, local newspaper and/or social media. Consider developing a short video (e.g., Go-Pro) for website and social media posting. If an exceedance occurs, work with the Ketchikan Gateway Borough (landowner), Alaska Department of Natural Resources (landowner), City of Ketchikan, Ketchikan Indian Association, and DEC to determine how best to reduce risk to recreational users and inform the public.

The grantee will prepare an interim report, draft, and final comprehensive reports for DEC review. The reports should include potential sources, data evaluation (use the recently revised Marine and Water Quality Indicator Criteria) and QA review, conclusions and recommendations to reduce the amount of bacteria (if needed). The grantee must enter the data into a DEC-provided Excel spreadsheet template. Incorporate all project data and appropriate references as appendices.

The grantee is responsible for developing a Geographic Information System (GIS) geodatabase demonstrating spatial relationship between residential/public waste treatment, septic systems, topographic contours, surface water hydrology, potential on-site pollution sources, and beach survey data; provide the data in NAD83/Alaska Albers.

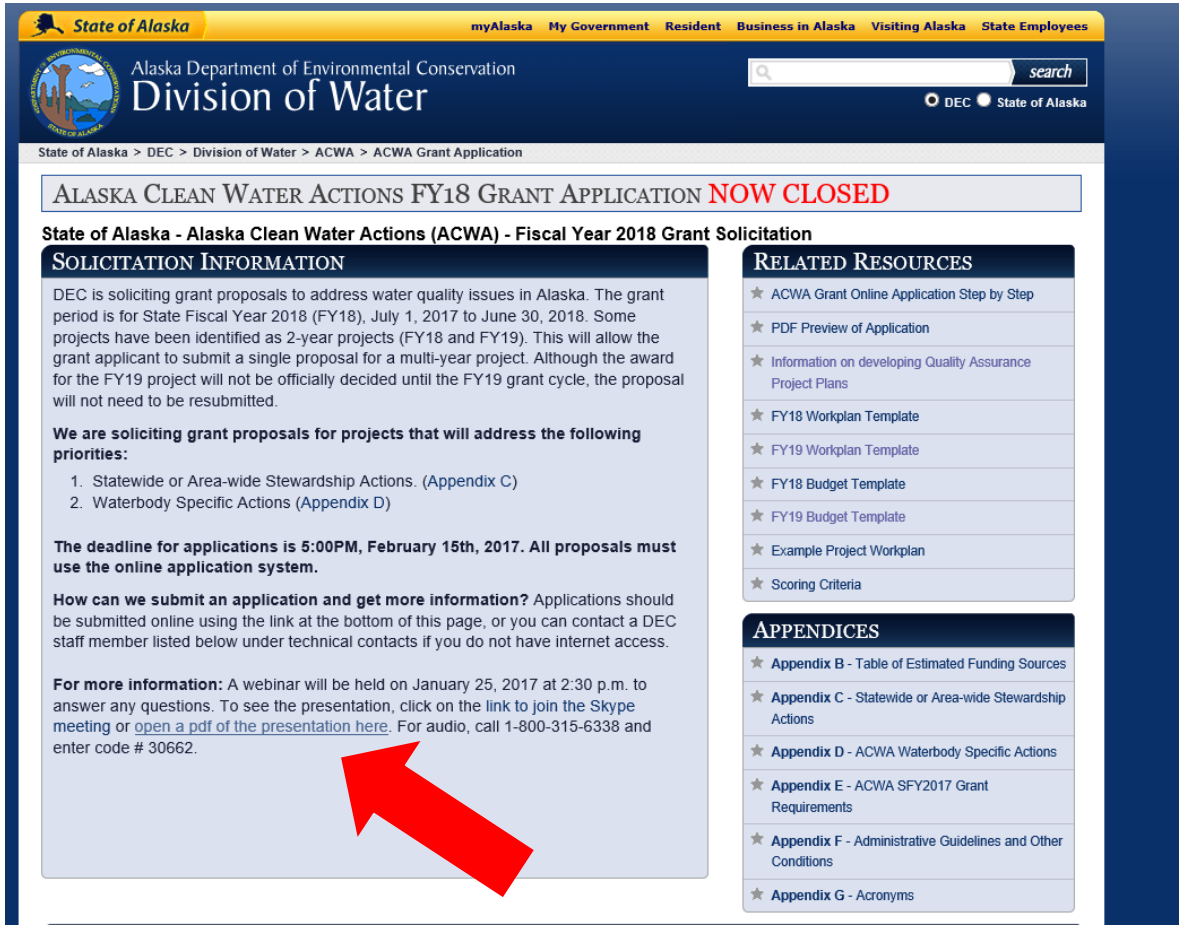
The grantee must also conduct a meeting with interested local representatives to discuss the results and any further actions. A letter of project support must be provided from the Ketchikan Gateway Borough, Alaska Department of Natural Resources, and City of Ketchikan be submitted with the grant application. All necessary permits will be obtained.

Project proposals must use the solicitation's work plan template for Objectives, Tasks, and Deliverables and the financial spreadsheet template for detailed costs per task based on the requested action http://dec.alaska.gov/water/acwa/onlineACWAapp.htm.

Project Schedule:

- Fall 2017: QAPP/Sampling Plan and Handbook
- May-June 2018; SFY2018: monitoring program
- June 2018: geodatabase and map and project report

Grant Tutorial



New ACWA Grant schedule

- August – prepare waterbody specific actions
- September – determine available funding & prepare grant announcement
- October – public notice
- November – grant submission deadline
- December – committee review & recommendations
- January – grant awards announced
- March – grants begin

Successful SE projects

- **Juneau** - Jordan Creek rain garden/bioswale, Duck Creek-Nancy Street Wetland monitoring, Auke Lake monitoring, Pederson Hill Creek monitoring, BEACH
- **Haines** – Mosquito Lake monitoring, Haines Snow Management Plan, Sawmill Creek wetland enhancement, Parade Grounds bioswale/outreach, BEACH
- **Ketchikan** – Ketchikan Creeks monitoring/bioassessments, BEACH
- **Skagway** – Pullen Creek Stormwater Plan
- **Sitka** – Stormwater Management Plan

Questions?

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