

2020 Update

# Bristol Bay Comprehensive Economic Development Strategy: 2017-2021



Prepared By:  
Bristol Bay Native  
Association;  
Economic  
Development  
Program



## Acknowledgements:

A special thank you to the following people and organizations that help make the Bristol Bay region thrive!

Quyana to:

The people of Bristol Bay,  
The Bristol Bay Tribes and Communities,  
The Bristol Bay Native Association Board of Directors,  
The Bristol Bay Native Association Sub-regional Representatives,  
The BBCEDS Steering Committee Representatives,  
The Bristol Bay Area Regional Partners; BBNA, BBEDC, BBNC, BBAHC, and BBHA,  
U.S. DOC, Economic Development Administration,  
Shirley Kelly, Alaska EDA Representative, and  
The BBNA Program Development Department team.

# BRISTOL BAY COMPREHENSIVE ECONOMIC DEVELOPMENT STRATEGY: 2017-2021

Prepared for: The United State Department of Commerce Economic Development Administration Partnership Planning Assistance Program for grant period: July 01, 2020-June 30, 2021

Adopted on: March XX, 2020 by the BBCEDS Steering Committee.

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**Key:**  
 \*\* Double stars behind an objective indicate Priority Objectives\*\*. These Priority Objectives shape the Scope of Work for the BBNA/EDA Economic Development Coordinator.



This symbol is used to elect Resiliency Champions for the Bristol Bay region. Entities that set a plan to be stronger than before become resiliency champions and receive this mark next to their efforts.

**Acronyms**

|        |   |       |   |
|--------|---|-------|---|
| ADF&G  | Alaska Department of Fish and Game                      | CFEC  | Commercial Fisheries Entry Commission                   |
| ATV    | All-terrain vehicles                                    | DCRA  | Alaska State Division of Community and Regional Affairs |
| BBBSD  | Bristol Bay Borough School District                     | DCSD  | Dillingham City School District                         |
| BBC    | University of Alaska Bristol Bay Campus                 | EDA   | Economic Development Administration                     |
| BBCEDS | Bristol Bay Comprehensive Economic Development Strategy | GDP   | Gross Domestic Production                               |
| BBEDC  | Bristol Bay Economic Development Corporation            | LPB   | Lake and Peninsula Borough                              |
| BBHA   | Bristol Bay Housing Authority                           | LPSD  | Lake and Peninsula School District                      |
| BBNA   | Bristol Bay Native Association                          | MAP   | Maximum Achievement Program                             |
| BBNC   | Bristol Bay Native Corporation                          | PCE   | Power Cost Equalization                                 |
| BLM    | Bureau of Land Management                               | REAA  | Rural Education Attendance Area                         |
| CDQ    | Community Development Quota                             | SAVEC | Southwest Alaska Vocational and Education Center        |
| CEDS   | Comprehensive Economic Development Strategy             | SWOTs | Strengths, Weaknesses, Opportunities, and Threats       |
|        |   | SWRSD | Southwest Region School District                        |
|        |   | VTC   | Video Teleconferencing                                  |

**The parts of a CEDS**

**Background Summary:** Economic conditions in the region.

**SWOT Analysis:** Identify regional Strengths, Weaknesses, Opportunities, and Threats.

**Economic Resilience:** Map detailing how Bristol Bay Communities intend to respond to changes in the economy.

**Regional Goals Statement:** The goals set by the steering committee after analysis of the regional SWOT.

**Planning and Project oversight:** A steering committee (with roster) made up of sub-regional and regional representation to oversee and guide the Bristol Bay CEDS public process.

**Action Plan/Strategic Direction:** Incorporated tactics identified through planning processes, other plans, and stakeholder feedback to develop the priorities objectives for the region.

**Evaluation Measures:** Woven into the objectives, evaluation measures are the marks set by each entity, used to identify and monitor performance measures associated with the plan.

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## Introduction: What is a CEDS?:

Bristol Bay is a designated Economic Development District (EDD) through the US Economic Development Administration (EDA). BBNA has been the region's EDD/EDA planning partner since the 1970's and is responsible for developing a Comprehensive Economic Development Strategy (CEDS) for Bristol Bay area designed to identify regional priorities for economic and community development. This plan follows the new guidelines released by the US EDA in February 2015. The CEDS is a **strategy driven plan** developed by a diverse group of local entities from private, public, and nonprofit sectors.

The CEDS is a planning tool used to map out where Bristol Bay wants to go, reduce redundancies, attract investment, and encourage partnerships.

## Executive Summary of Regional Projects:

### \*\*Indicate Priority Projects

#### Fisheries Projects

1. Observe a Fish First Priority\*\*
2. Support Alaska Sea-Grant's Marine Advisory Program activities in the Bristol Bay region and across the State of Alaska to: Enhancing the sustainable use and conservation of Alaska's marine and freshwater resources through research, outreach, and education.\*\*
3. Support efforts to brand Bristol Bay and Bristol Bay products.
4. Provide finance and business-management services to commercial fishermen with loan investments in the local fisheries.
5. Provide assistance for resident fishers through the Bristol Bay Economic Development Corporations Regional Fisheries Program.
6. Chignik Management Area salmon escapement enumeration and quality project.



1: SALMON BEING CAUGHT ON A BRISTOL BAY DRIFT BOAT

#### Workforce Projects

1. Bristol Bay Drug & Opioid Task Force Bristol Bay.
2. Promote Bristol Bay Native Corporation Education Foundation.
3. Encourage Bristol Bay Native Corporation Shareholder Development.
4. Increase Bristol Bay workforce readiness by offering 10 vocational training courses each year.
5. Increase effective transitions into postsecondary education by piloting one early college program.
6. Encourage entrepreneurs to utilize the Bristol Bay Development Fund.
7. The Dillingham City School District (DCSD) will work in partnership with the whole community to educate all students to be responsible citizens and reach their full potential.
8. Provides quality comprehensive services to Bristol Bay residents, promoting individual and family self-sufficiency through employment and educational opportunities, which sustain cultural values and reflect economic trends of the Bristol Bay Region.\*\*
9. Promote higher education scholarship opportunities to Bristol Bay Economic Development Corporation residents.
10. Promote employment opportunities to Bristol Bay Economic Development Corporation residents within the region or Community Development Quota seafood processing.
11. Bristol Bay Economic Development Corporation will provide grants for employment opportunities within the region.
12. Bristol Bay Economic Development Corporation will provide resident entrepreneurs and communities with technical assistance resources.
13. Repair/Replace Roof Southwest Alaska Vocational & Educational Center's existing Building 647.
14. Modernization and Renovation of the Southwest Alaska Vocational & Education Center (SAVEC) building and facilities to meet modern demand to meet mission to

- 
- promote, coordinate and provide high quality training and education to residents of Southwest Alaska.
  - 15. Increase healthy, educated, and employed local regional workforce through SAVEC's mission to promote, coordinate and provide high quality training and education to residents of Southwest Alaska.
  - 16. Increase Bristol Bay's access to relevant news, public safety information and entertainment.
  - 17. Build capacity for the Chignik Intertribal Coalition (CIC).
  - 18. Bristol Bay Regional Career and Technical Education Program to build workforce skills and job and career awareness that directly relates to the Bristol Bay Region for high school students.

#### Transportation and Infrastructure Projects

- 1. Identify and create a database of Bristol Bay region infrastructure projects to coordinate employment and logistics of their project needs.
- 2. Support the Ekuk-Clarks Point Road.
- 3. Develop Hazard Mitigation Plans for Bristol Bay communities.
- 4. Encourage local residents to obtain the necessary training needed to be hired on as construction crew.
- 5. Develop Tribal Transportation Safety Plans for thirteen communities.
- 6. Support Dillingham community infrastructure projects.
- 7. Bristol Bay Native Corporation Land Department.
- 8. Bristol Bay Economic Development Corporation will provide communities with grants to promote economic development.
- 9. Pilot Point Seafood Processing Plant.
- 10. Lengthen Pilot Point's Airstrip from 3,400 to 5,000 linear feet.
- 11. Ugashik River Road.
- 12. Support Bristol Bay Borough infrastructure projects.
- 13. Support Lake and Peninsula Borough infrastructure projects.
- 14. Protection of Ekuk Beach commercial fishing set net site infrastructure.
- 15. Provide Port Heiden with a salmon processing facility to ensure future economic stability for our community.
- 16. Support City of Aleknagik's Capital Improvement Projects.
- 17. A village-based Processing Plant located in Levelock, AK.
- 18. Clarks Point Long Range Transportation Plan.
- 19. Ekuk Long Range Transportation Plan.
- 20. Ekwok Village Council Long Range Transportation Plan.
- 21. Pilot Point Village Council Long Range Transportation Plan.
- 22. Portage Creek Village Council Long Range Transportation Plan.

- 23. Twin Hills Village Council Long Range Transportation Plan.
- 24. Water & Sewer Improvements-Upgrades and Sewer Lagoon Expansion for the City of Newhalen.
- 25. Support the City of Chignik's Capital Improvement Priorities
- 26. Support the City of Nondalton's Capital Improvement Priorities
- 27. Support the City of New Stuyahok' s purchase of Heavy Equipment

#### Energy Projects

- 1. Nuyakuk Hydroelectric Project\*\*
- 2. Perform sustainable energy applied research to benefit Bristol Bay.
- 3. Deliver sustainable energy education throughout Bristol Bay.
- 4. Provide Biomass Heating as alternative energy for BBNA to reduce Hazardous Fuels utilization. Renewable Energy Utilization /Biomass Heating
- 5. Provide commercial cord wood and small timber sales in Bristol Bay.
- 6. Reinforce and strengthen Naknek Electric Association's existing power plant.
- 7. To bring high speed Internet to the Bristol Bay Borough.
- 8. Support the Bristol Bay community and Tribal entities with weatherization and energy efficiency through local hire.
- 9. Togiak Hydroelectric\*\*

#### Tourism Projects

- 1. Develop a comprehensive list of tourist attractions in Bristol Bay for the purpose of creating a regional marketing campaign\*\*.
- 2. Grow opportunities to sell local art to visitors.\*\*
- 3. The Bristol Bay Historical Society is dedicated to preserving and sharing the history, culture, and values of Bristol Bay.
- 4. Increase Tourism in the Bristol Bay Borough through Development of Visitor Infrastructure in King Salmon, Alaska.
- 5. Provide Part time/seasonal funding for one position at the Sam K. Fox Museum in Dillingham.

#### Other Economic Strategies

- 1. Develop increased participation in subsistence activities.
- 2. Hunting, Fishing and Gathering Task Force.
- 3. Developing Tribal Environmental Codes within Bristol Bay Region.
- 4. Hunter Orientation Training for Bristol Bay Marine Mammal Hunters.

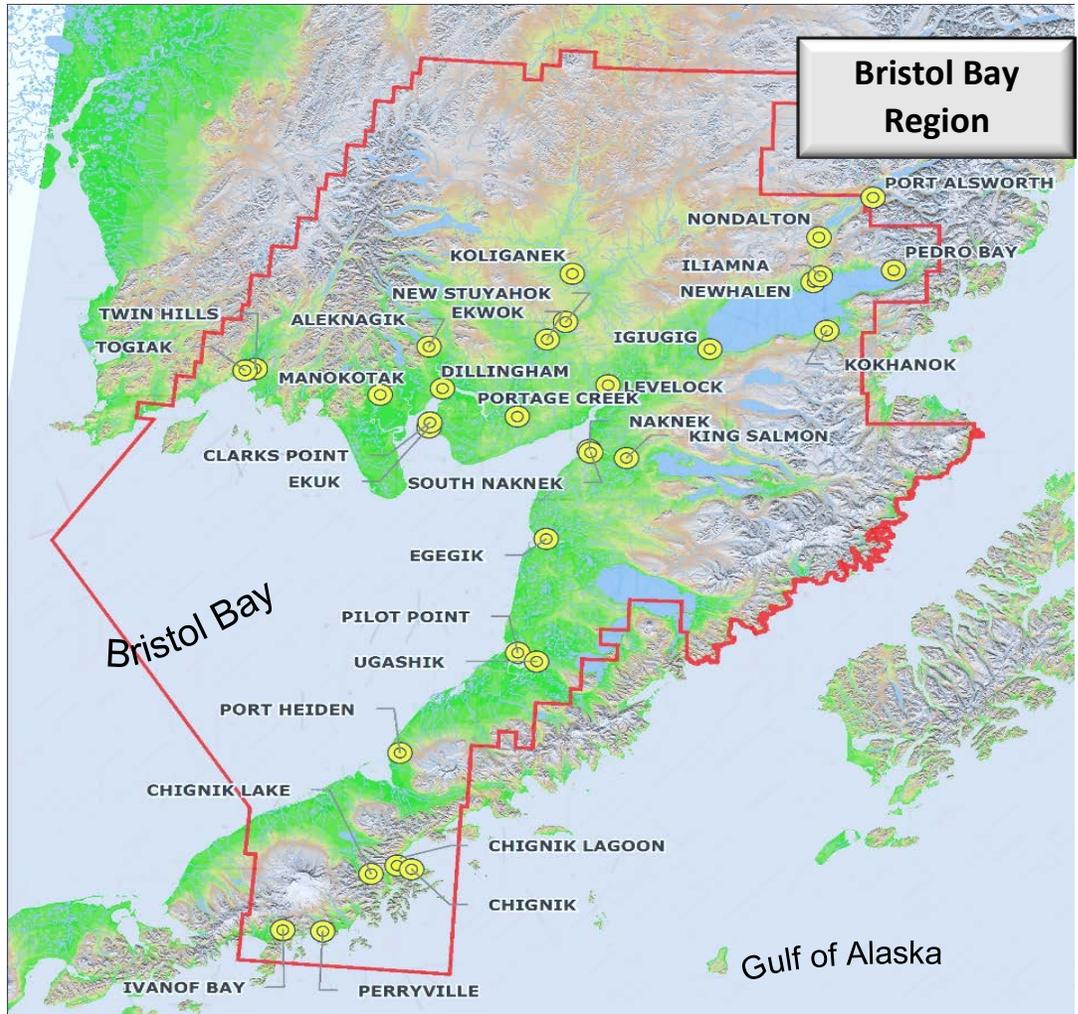
## Regional Partners and Communities:

The Bristol Bay region is supported by a team, known locally as the BB's, comprised of:

- \* The Bristol Bay Area Health Corporation,
- \* The Bristol Bay Housing Authority,
- \* The Bristol Bay Native Corporation,
- \* The Bristol Bay Economic Development Association,
- \* And the Bristol Bay Native Association.

Together this team supports the needs and dreams of the Tribes, Governments, and people for the following communities:

Aleknagik  
Chignik Bay  
Chignik Lagoon  
Chignik Lake  
Clarks Point  
Dillingham  
Egegik  
Ekuk  
Ekwok  
Igiugig  
Iliamna  
Ivanof Bay  
Kanatac  
King Salmon  
Kokhanok  
Levelock  
Manokotak  
Perryville  
Koliganek  
New Stuyahok  
Newhalen  
Nondalton  
Pedro Bay  
Pilot Point  
Port Heiden  
Portage Creek  
South Naknek  
Naknek  
Togiak  
Twin Hills  
Ugashik



2: BRISTOL BAY REGION IS 46,573 SQUARE MILES, ABOUT THE SIZE OF OHIO

# Bristol Bay's Tides of Change

2019-2020

Highlighted below are measurable indicators of Bristol Bay's changing economy

## FISHERIES

**\$314.6 million**



Bristol Bay Ex-vessel value \$306.6 million, up \$25.6 million. Chignik Management Area fishery Ex-vessel value \$8 million up from \$3,000 in 2018.

CHIGNIK FISHERY

BRISTOL BAY

**\$1.40**

AVERAGE PRICE PER POUND FOR SOCKEYE

**\$1.35**

AVERAGE PRICE PER POUND FOR SOCKEYE

## WORKFORCE



**-2%**

Regional Population decreased by 164 people to 7,378

AK Department of Labor, Alaska Economic Trends, Feb 2020



**1.2%**

The Southwest Region of Alaska saw an increase in employment from Dec. 2018 to Dec. 2019 (including Bethel and Aleutian regions)

AK Department of Labor, Alaska Economic Trends, Feb 2020



**5,576**

The Alaska Native population decreased by 28 people/ -0.5%

AK Department of Labor, Alaska Population by Race and Hispanic Origin, and Borough/Census Area, July 2018

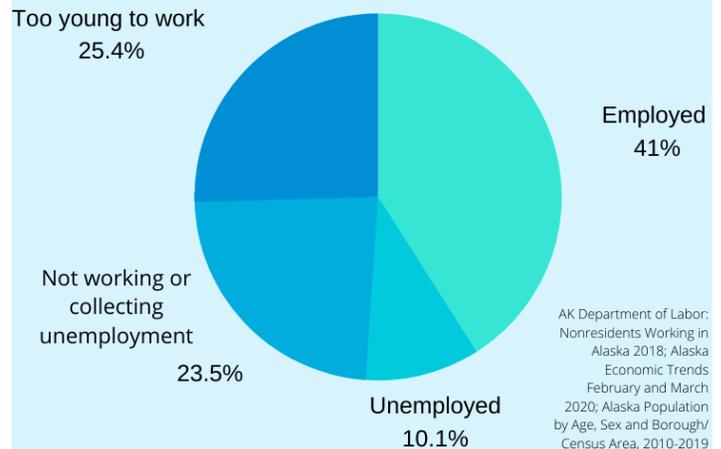
**48 million**



Wild Sockeye Salmon Harvest 2019  
Bristol Bay Fishery: 44.5 million fish, up 1 million from 2018.  
Chignik Area Fishery: 3.5 million fish, up from 1,059 in 2018.

ADF&G 2019 Alaska Commercial Salmon Harvest- Ex-vessel Values

Percentage of the whole population



AK Department of Labor: Nonresidents Working in Alaska 2018; Alaska Economic Trends February and March 2020; Alaska Population by Age, Sex and Borough/Census Area, 2010-2019

# WORKFORCE CONTINUED



**73%**

High School Graduation rate, down 11.9%

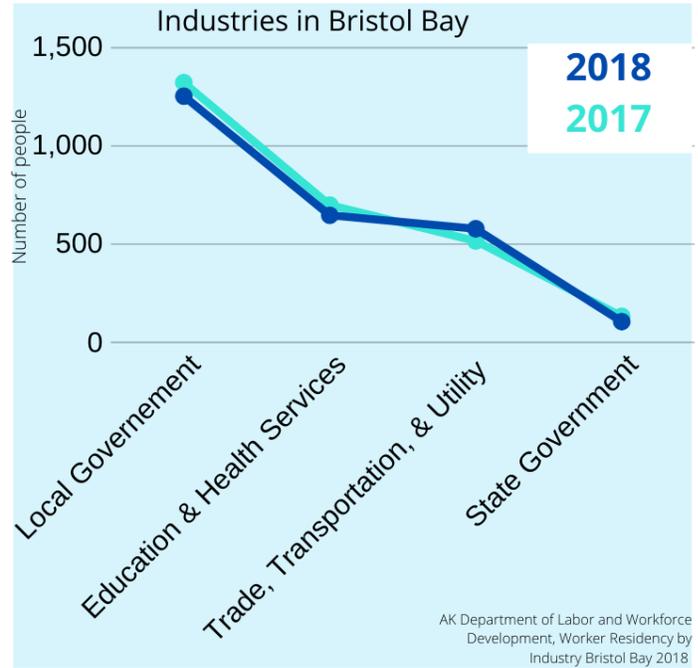
Alaska Department of Education & Early Development Assessments & Accountability  
Alaska Public High School Graduates by School (Regular Diploma Recipients) FY2018



**10.1%**

2019 Unemployment in the region is  
down 1.87%

Alaska Economic Trends, Feb 2020



# TRANSPORTATION & INFRASTRUCTURE

The region is remote with few local roads connecting the communities. the cost of travel between communities is high and affects the cost of living since getting good to the region is costly.

RAVN AIR

**\$430-\$650**

COST PER ROUND TRIP TICKET TO ANCHORAGE FROM DILLINGHAM OR KING SALMON

Rate search on March 11, 2020: www.flyravn.com

LAKE CLARK AIR

**\$1397**

COST PER ROUND TRIP TICKET FROM PERRYVILLE TO ANCHORAGE

Price check with BBNA Travel Manager, March 11, 2020



**3.75%**

The popular barge company, Alaska Marine Lines, had a rate increase in November 2019. this company brings goods in from Anchorage and Seattle.

Alaska Marine Line Rate Increase Notification Western Alaska, November 8, 2019

**ACCESS TO STATE/ INTERSTATE HIGHWAY SYSTEMS**

AK, Department of Transportation and Public Facilities, Traveler info 511

The Chignik Bay region can utilize the Alaska Marine Highway system twice a month from May to September, but it's under threat due to low State funding. Chignik Bay can also ship goods from Washington State monthly, year round.

Alaska Marine Highway System, Schedules, Sailing Calendar; High Country News, Alaska's Highway of ferries is under threat, Jan 8, 2020; Coastal Transportation Sailing Schedule

## Energy



**87%**

of tribes need weatherization improvements for home owners.

Transportation, Infrastructure, & Energy CEDS Subcommittee meeting, January 16, 2020

**39%**



of the Bristol Bay communities exploring or using hydro power as an alternative to diesel fuel.

2020 Bristol Bay CEDS, KDLG: Igiugig's hydro power launch a major step toward independence from diesel

**NORTHERN AIR CARGO**

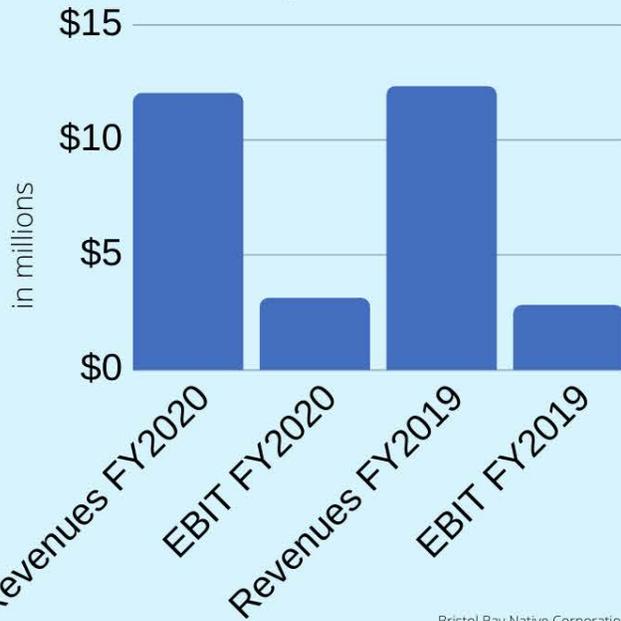
**\$0.84/LB**

AIR CARGO PRICES FROM ANCHORAGE TO HUBS UP 2CENTS

Site www.nac.aero/rates/

# TOURISM

Bristol Bay Native Corporation's Bristol Bay Alaska Tourism subsidiary profits for 2020 and 2019-owned by shareholders in the region.



Bristol Bay Native Corporation;  
Bay Report Winter 2019

# OTHER

Subsistence, the practice of harvesting food from the land, is a major component of the region's economy. Bristol Bay residents harvest an average of 206 pounds of wildlife per person. Replacing subsistence foods with imported protein can cost \$4-8 per pound. Residents

**265** 

The number of moose harvested in 2018.

**212** 

The number of caribou harvested in 2018.

are saving an average of \$1,236 a year per person for a regional total of \$9.3 million with the practice of subsistence harvests.

Alaska Department of Fish and Game, Subsistence in Alaska: A Year 2014 Update

**124,807**

the number of salmon harvested in 2017.

ADF&G; Alaska Subsistence and Personal Use Salmon Fisheries 2017 Annual Report: TP451

**\$1,600 PFD**



The State of Alaska paid \$1,600 to each resident with the Permanent Fund Dividend, unchanged from 2018.

KTUU: 2019 PFD amount officially announced at \$1,606; September 27, 2019



"Welcoming sustainable economic development based largely on renewable resources that do not threaten our land, water or way of life." (Vision, 2011)

For more information, see [www.bristolbayvision.org](http://www.bristolbayvision.org)

## CEDS Guided by REGIONAL VISION

Through the Bristol Bay CEDS and other initiatives, the region implements the Bristol Bay Regional Vision. The regional partners with BBNA as the lead organization sponsored the Vision to hear from the people about their hopes and dreams for the future. Although the region is remote and diverse with many cultural, economic, and social differences, people strongly agree on their values and vision for the future in amazing unity. The CEDS identifies economic priorities consistent with the Bristol Bay Regional Vision to enhance the economy by creating and retaining jobs while protecting the preferred lifestyle and environment.

TABLE 1: SUMMARY OF SWOT WORKSHOPS

|          |  |
|----------|--|
| <b>S</b> | <ul style="list-style-type: none"> <li>-Fish: produce 50% of worlds wild sockeye</li> <li>-Abundance of Natural Resources</li> <li>-Access to Internet</li> <li>-Subsistence and resource skills</li> <li>-Our Environment: natural beauty</li> </ul>  |
| <b>W</b> | <ul style="list-style-type: none"> <li>-High Transportation Costs</li> <li>-Drug and Alcohol Abuse</li> <li>-High Cost of Living</li> <li>-Inadequate Elder Care</li> <li>-Limited Jobs in smaller villages</li> </ul>   |
| <b>O</b> | <ul style="list-style-type: none"> <li>- Millennials' (ages 18-35)</li> <li>-Elders and Youth</li> <li>-Technology</li> <li>-Branding Bristol Bay</li> <li>-Energy Efficiency</li> <li>-Renewable Energy</li> </ul>  |
| <b>T</b> | <ul style="list-style-type: none"> <li>-Climate Change</li> <li>-High Drug and Alcohol Use</li> <li>-Economy based on resource extraction: land and resources</li> <li>-High cost of food, energy, and transportation</li> <li>-Out migration and schools closing</li> <li>-Pollution</li> </ul> |



**BRISTOL BAY'S**  
STRENGTHS  
WEAKNESSES  
OPPORTUNITIES  
THREATS

• OUR REGIONAL SWOT ANALYSIS •

**SWOT Analysis:**

In 2015 and 2016, four workshops were hosted with Bristol Bay residents to determine where the region’s economy stood looking at its Strength, Weakness, Opportunity, and Threat (SWOT). These exercises were conducted in regional gathering settings that opted to maximize input from across the region. The workshops were hosted with the following groups:

- BBNC’s Leadership Forum, December 8/9, 2015
- BBNA’s Senior Managers and Program Managers, March 14, 2016
- CEDS Steering Committee meeting, March 22, 2016
- UAF Bristol Bay Student workshop, February 17, 2016

Based on the SWOTs in 2016, the steering committee sees the following opportunities for economic growth:

**Fisheries-** Bristol Bay is home to the world’s largest wild salmon fishery, with *opportunities* to increase value to the product and region.

**Workforce-** Bristol Bay has a population of over 7,300 people, an unemployment rate over 10%, and increasing opioid threats, there is a lot of *opportunity* to improve and increase human capital capabilities and take advantage of existing skills.

**Transportation and Infrastructure-** Isolated communities and harsh climates have made the cost of living and transporting

goods both challenging and expensive, *opportunities* to partner on projects and training local residents for construction projects to retain dollars in communities.

**Energy-** Diesel fuel has been the primary method for generating energy for the region, which has been expensive, risky to transport, and is a non-renewable resource, energy diversification has the *opportunity* to retain monetary capital for the region and reduce risk of fuel spills in the fishery.

**Tourism-** Home to pristine flora and fauna, Bristol Bay has much to offer in eco-tourism *opportunities* that would complement the existing fishing economy but has yet to be used to its full advantage.

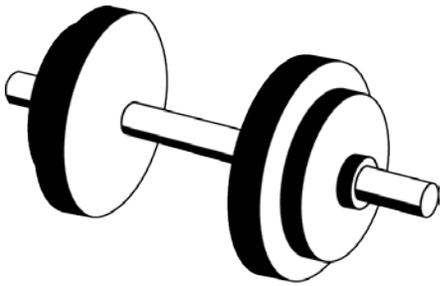
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## Economic Resilience:

### What it means to be resilient and a resiliency champion.

Resiliency is an individual or entity's ability to recover from shock or disruptions to daily activity. Aspects of resiliency can be obtained by asking "What will my organization do or think should be done to ensure my organization and the services it provides will be here tomorrow?" Often this is a strategic plan or back up plan set out by entities or departments to help them navigate when times become difficult or unclear.

This symbol is used by the CEDS Steering committee to elect Resiliency Champions for the Bristol Bay region. Resiliency Champions are entities that set a plan to be **stronger** than the day before.



### *Not just bouncing back...Bouncing Forward*

"Another way of looking at resilience is the ability not only to bounce back but also to "bounce forward"- to recover and at the same time to enhance the capacities of the community or organization to better withstand future stresses."

-Urban Land Institute, *After Hurricane Sandy*

Much work needs to be done to ensure the Bristol Bay region is a strong resilient champion but some organizations are taking the first steps towards resiliency. Look for the resiliency symbol to find out which Bristol Bay organizations are taking the steps to weather economic storms.

## Evaluation Process:

The evaluation process provides an opportunity to review the authorized EDA planner's scope of work and the action plan to determine the success of the desired outcomes of their objectives. Each entity has set its own evaluation measures to follow after implementation of the CEDS goals and objectives:

- Number of jobs created
- Number of jobs retained in the region.
- Number and types of public investments generated by the projects.
- Amount of private sector investments in the region generated by the projects.
- Changes in the economic conditions in the region.

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*CONTACT THE BBNA ECONOMIC  
DEVELOPMENT DEPARTMENT TO  
LEARN HOW TO BE A RESILIENT  
CHAMPION.*

*Kristina Andrew  
Economic Development  
Coordinator  
907-842-6223*



The following goals have been set for the region with the assistance of the BBCEDS Steering Committee.

# REGIONAL GOAL STATEMENTS

## 5 PARTS OF THE BBCEDS: WHAT OUR REGION IS WORKING ON BUT NEVER LIMITED BY...

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### **Fisheries Goal:**

Support development efforts within the fishing industry to promote the region's seafood and support existing fisheries opportunities in the region for the purpose of promoting local participation.

### **Workforce Goal:**

Collaborate as a region to strengthen Bristol Bay's work force through: education opportunities, promotion of small business, and combating substance abuse.

### **Transportation & Infrastructure Goal:**

Transportation and Infrastructure needs in the region to promote strong communities.

### **Energy Goal:**

Create long term energy security, support energy infrastructure development, and promote efficient use of existing energy-related resources within Bristol Bay.

### **Tourism Goal:**

Increase visitor-related opportunities; promote Bristol Bay as a destination for visitors; and capitalize on the sustainable and cultural attributes of the region.

## 2020 Update Planning and Project Oversight CEDS Steering Committee

|     | <b>NAME, community</b>                                 | <b>Organization, Position</b>  | <b>Sector</b>                                      |
|-----|--|--|--|
| 1)  | <b>Serena Aikins-McArthur</b> , Dillingham             | Bristol Bay Native Association, Workforce Development Director   | Public, Workforce                                  |
| 2)  | <b>Ralph Andersen</b> , Dillingham                     | Bristol Bay Native Association, Chief Executive Officer  | Public, Non-Profit                                 |
| 3)  | <b>Sarah Andrew</b> , Dillingham                       | Bristol Bay Campus, Interim-Director   | Public, Higher Education                           |
| 4)  | <b>Kate Conley</b> , King Salmon                       | Lake and Peninsula Borough, Planner  | Public, Local Government                           |
| 5)  | <b>Jenny Dill</b> , Dillingham                         | Wells Fargo Bank, Service Manager  | Private, Financial                                 |
| 6)  | <b>Anthony Gregorio</b> , Chignik Lagoon               | Bristol Bay Native Association, Board President  | Public, Non-Profit, Tribal                         |
| 7)  | <b>Charlie Johnson</b> , Portage Creek                 | Nushagak River Sub-regional Rep. Bristol Bay Native Association, Board Member of Portage Creek                               | Public, Tribal                                     |
| 8)  | <b>Patrick Kosbruk</b> , Perryville                    | Peninsula Sub-regional Rep. Bristol Bay Native Association, Board Member of Perryville                                       | Public, Tribal                                     |
| 9)  | <b>Shirley Marquardt</b> , Anchorage                   | Southwest Municipal League Conference, Executive Director  | Public, Non-Profit, Municipality                   |
| 10) | <b>Judy Jo Matson</b> , Naknek                         | Kvichak Bay Sub-regional Rep. Bristol Bay Native Association, Board Member of Pilot Point; Commercial Fisher                 | Public, Tribal; Private, Small Business: Fishing   |
| 11) | <b>Cindy Middlestat</b> , Anchorage                    | Bristol Bay Area Development Fund  | Private, Small Business                            |
| 12) | <b>Henry Olympic</b> , Newhalen                        | Iliamna Lake Sub-regional Rep. Bristol Bay Native Association, Board Member of Newhalen                                      | Public, Tribal                                     |
| 13) | <b>Bertha Pavian-Lockuk</b> , Togiak                   | Togiak Bay Sub-regional Rep. Bristol Bay Native Association, Board Member of Togiak  | Public, Tribal, Education                          |
| 14) | <b>Alice Ruby</b> , Dillingham                         | Bristol Bay Economic Development Corporation, Economic Dev/Brokerage Director; City of Dillingham, Mayor; SWAMC Board Member | Private, Non-Profit; Public, Official              |
| 15) | <b>Becky Savo</b> , Nakenk; Carvel Zimin, South Naknek | Bristol Bay Borough Planner, Commercial Fisher; Bristol Bay Borough Assemblyman, Commercial Fisher                           | Public, Official; Private, Small Business: Fishing |
| 16) | <b>Thomas Tilden</b> , Dillingham                      | Nushagak Bay Sub-regional Rep. Bristol Bay Native Association, Board Member of Dillingham; Commercial Fisher                 | Public, Tribal; Private, Small Business: Fishing   |
| 17) | <b>Norm Van Vector</b> , Dillingham                    | Bristol Bay Economic Development Corporation, Chief Executive Officer  | Private, Non-profit; Commercial Fishing            |

**“We cannot solve our problems with the same thinking that we used to create them.”**

**--Albert Einstein--**

# Action Plan

The objectives set out in this action plan were solicited by email and phone from BBNA's Economic Development Department during the months of December 2018, January and February of 2019. Inclusion of objectives is voluntary to help projects of organizations gain regional support and create partnerships to ensure longevity. All objectives received that stand to benefit any population of the Bristol Bay public will be included in the CEDS.

**\*\* Indicate Priority Objectives**

## Fisheries Strategic Direction:

### Fisheries Projects



#### Project #1: Observe a Fish First Priority.\*\*

Bristol Bay is home to one of the world's largest remaining wild salmon fisheries. These sustainable fisheries are the cultural, subsistence, and economic cornerstones of the Bristol Bay region.

#### Project Description:

Prioritize and balance the protection of salmon and salmon habitat in decisions that will impact these fisheries.

#### Outline of steps required for project to be completed:

- 1) Advocate for Bristol Bay's fisheries (commercial, subsistence, and sport) including the protection of fishery habitat.
- 2) Prioritize and balance the protection of fish and fish habitat in all land management decisions and input on land management issues.
- 3) Help create, build, and market the Bristol Bay salmon "brand".
- 4) Promote the recognition of and appreciation for the region's fisheries and their economic, cultural, and subsistence values.

#### People/Organizations responsible for completing these steps:

Bristol Bay Native Corporation, Bristol Bay Native Association, Bristol Bay Economic Development Corporation, Nushagak Cooperative, United Tribes of Bristol Bay

#### Key Project Contact:

Name: Daniel Cheyette/Andria Agli

Title: VP Land and Resources/ VP Shareholder and Corporate Relations

Organization: Bristol Bay Native Corporation Land Department/ Bristol Bay Native Corporation Shareholder and Corporate Relations



#### Project #2: Support Alaska Sea-Grant's Marine Advisory Program activities in the Bristol Bay region and across the State of Alaska to: *Enhancing the sustainable use and conservation of Alaska's marine and freshwater resources through research, outreach, and education.*\*\*

#### Project Description:

The Marine Advisory Program works to:

- Assist coastal residents to diversify their community's economic base through involvement in ventures such as aquaculture, marine recreation and tourism, seafood processing, and direct marketing of Alaska seafood.
- Enhance the value of the commercial fishing, shellfish mariculture, seaweed farming, and seafood processing through training and technical assistance.
- Contribute to the information base of Alaskans who are making decisions affecting the conservation of the state's marine resources, or who depend on them for traditional, cultural, recreational, or nutritional sustenance.

#### Outline of steps required for project to be completed:

**Goal #1:** Healthy marine, coastal, and watershed ecosystems in Alaska.

**Objective 1:** Increase the shared body of knowledge about marine, coastal, and watershed ecosystems in Alaska, emphasizing the concerns and interests of stakeholders.

#### Strategies:

- 1) Consult with stakeholders to identify information gaps, knowledge, and skills that would inform their work in promoting and protecting healthy ecosystems.

- 2) Sponsor, facilitate, and collaborate on research, information gathering (including local and indigenous knowledge), and analysis to address stakeholder priorities.
- 3) Engage stakeholders in planning, design, and implementation of research and information gathering.
- 4) Share the results of research and information gathering with stakeholders.
- 5) Organize and facilitate community-based monitoring programs and networks to develop and extend long-term data sets.

**Desired outcomes**

- 1) New information (including local and traditional knowledge) will be generated on the marine, coastal, and watershed ecosystems of Alaska to fill existing gaps in knowledge.
- 2) Stakeholders will engage in information gathering and understanding results.
- 3) Science-based information will address stakeholder concerns and inform government and resource agency policies.
- 4) Alaskans will increase their participation in community-based monitoring programs that contribute to the knowledge and increase environmental literacy.

**Objective #2:** Support and enhance planning, management, and mitigation needed to ensure healthy ecosystems and coastal communities.

**Strategies**

- 1) Consult and work with planners, resource managers, marine resource industries, and communities to provide information for maintaining healthy ecosystems and to support adaptation and mitigation to address environmental change.
- 2) Support federal, state, municipal, and tribal governments' responses to environmental issues by sharing expertise and serving as a local liaison.
- 3) Participate in and advise on relevant boards and committees such as the Alaska Ocean Observing System board, the advisory committee to the Alaska Center for Climate Assessment and Policy, and the National Oceanic and Atmospheric Administration (NOAA) Regional Collaboration team.

**Desired outcomes**

- 1) Alaska coastal communities are better informed and have support for processes that promote long-term planning, including research, facilitation, and data synthesis.
- 2) Planning processes in Alaska coastal communities articulate and are inclusive of; cultural, social, and economic goals.
- 3) The needs of Alaska coastal communities are represented in regional, state, and national governance and decision-making processes.

3: BACK DECK OF BRISTOL BAY DRIFT BOAT WITH NET CAST



**Goal #2:** Sustainable fisheries and marine resources that provide safe food, jobs, and economic and cultural value.

**Objective #1:** Promote and support harvest and processing techniques that lead to safe and high-quality food and economic benefit from seafood and other marine resources.

**Strategies**

- 1) Provide information, training, and technical assistance in food safety and quality to harvesters, commercial seafood processors, people processing food for noncommercial use, and aquaculture operators.
- 2) Provide training and technical assistance in harvesting operations, seafood processing, value-added processing, new product development, workplace health and safety, and other areas related to profitability of the fisheries sector.
- 3) Conduct specific lab analysis and applied research to support seafood and other food producers in developing new products, improving processes, and reducing waste.
- 4) Educate users on the risks from harmful algal blooms (HABs) and support testing for paralytic shellfish poisoning in personal, subsistence, and commercial shellfish harvest.

**Desired outcomes**

- 1) Alaskans, whether harvesting and processing food for commercial value or food, will optimize the safety and quality of their products and meet regulatory requirements.
- 2) Seafood harvesters and processors will optimize the profitability of their products.
- 3) Shellfish harvesters and producers will be aware of the risks of HABs and will partner in-field and laboratory trials of emerging testing technologies.

**Objective #2:** While recognizing the priority of wild stocks and harvest, support sustainable aquaculture and enhancement of marine resources.

**Strategies**

- 1) Support research on culturing systems and cultured species to improve the production and economic viability of aquaculture operations.

- 2) Develop and disseminate information to help aquaculture operations adapt to climate change and ocean acidification.
- 3) Support research and disseminate information about interactions between cultured and wild species, including implications for disease transmission, genetic diversity, and water quality.
- 4) Develop and implement culturing and out-planting technologies for shellfish and marine plants to further conservation goals, including the recovery and rehabilitation of depleted species.
- 5) Participate in the development of regulations and policy relating to aquaculture through committees such as the Alaska Mariculture Task Force.

**Desired outcomes**

- 1) Potential and current aquaculture operations have research-based information to support improved production and to inform approaches to adapt to warming conditions and ocean acidification to ultimately improve economic viability.
- 2) Hatchery operators and harvesters will have scientific information regarding enhancement operations and their interactions with wild species.
- 3) Proven culturing and out-planting techniques are developed and disseminated to support enhancement opportunities when possible.

**Goal #3:** Vibrant coastal communities with strong and diverse economies.

**Objective #1:** Support the success and expansion of Alaska-based maritime businesses.

**Strategies**

- 1) Provide training and technical assistance to new and expanding maritime and coastal businesses in business planning and management, risk management, and energy efficiency.
- 2) Coordinate and encourage exploration of industry diversification in maritime and coastal businesses.

**Desired outcomes**

- 1) Alaska-based maritime businesses are more profitable.
- 2) Alaska-based maritime businesses will evaluate diversification options.

**Objective #2:** Increase the resilience of Alaska coastal communities through diversification, growth, and strengthening of coastal/marine economic sectors and social well-being, identity, and values.

**Strategies**

- 1) Facilitate, support, and serve as a resource for community-led planning, data collection, analysis, and decision-making.
- 2) Inform the public and private sectors about the challenges, needs, and opportunities in Alaska’s rural coastal communities.
- 3) Sponsor and collaborate with communities and other partners on projects and research relating to economic opportunities, diversification, development, and community wellbeing.

- 4) Promote and support participation by Alaska residents and communities in public policy and management processes that affect their livelihoods and economies.

**Desired outcomes**

- 1) Alaska coastal communities are engaged in long-term planning, including research, facilitation, and data synthesis.
- 2) Planning processes in Alaska coastal communities articulate and include cultural, social, and economic goals.
- 3) The needs of Alaska coastal communities are represented in regional, state, and national governance and decision-making processes

**Goal #4:** Communities and residents with skills and knowledge to respond and adapt to coastal hazards and environmental change.

**Objective #1:** Increase the capacity of Alaska’s coastal communities and residents to prepare for adapting and responding to, coastal hazards, disaster events, and environmental change.

**Strategies**

- 1) Educate communities and residents about coastal hazards, ocean acidification, climate and other environmental change, and related policy issues.
- 2) Facilitate, support, and serve as a resource for adaptation planning efforts that mitigate climate change effects while providing for improved community well-being.
- 3) Partner with community-based monitoring groups and others to promote local data collection efforts that enhance knowledge about coastal change for both monitors and residents.
- 4) Sponsor and collaborate in research, data collection, and data analysis related to coastal hazards and hazard mitigation planning.
- 5) Coordinate, teach, and participate in community-based prevention, preparedness, and response activities related to natural and human-caused coastal hazards.
- 6) Participate in and advise on relevant boards and committees such as the Alaska Ocean Acidification Network, the Local Environmental Observer Network, Alaska Center for Climate Assessment and Policy, and the Alaska Ocean Observing System.

**Desired outcomes**

- 1) Alaska residents are aware of and understand potential coastal hazards, work to mitigate, and make plans to respond to those hazards.
- 2) Decision-making about collective response to coastal hazards is informed by local resident participation in planning, data-collection, and research.

**Goal #5:** Safe participation in maritime travel and activities.

**Objective #1:** Lower the risk of injuries and fatalities associated with boating and other maritime travel and activities in a changing environment.

**Strategies**

- 1) Train and inform Alaskans about marine safety, addressing; boating, travel on sea ice, exposure to weather, adaptation

to changing climate and environmental conditions, and other hazards.

- 2) Produce information and conduct training for workers in the maritime industries and for vessel owners that will promote personal safety and health.
- 3) Collaborate with marine safety and other educational and community groups in Alaska and nationally, to produce and share resources on safety practices.
- 4) Participate on and advise the Alaska Marine Safety Education Association Board of Directors, the Commercial Fishing Safety Advisory Committee, the Alaska Boating Safety Advisory Council, and other advisory groups focused on marine safety.

#### Desired outcome

- 1) Fatality and injury rates will decrease as marine operators have increased awareness of how to prevent and respond to marine incidents.

**Goal #6:** An environmentally literate Alaska public and visitors.

**Objective #1:** Increase effective environmental literacy instruction to Alaska K–12 students by formal and informal educators.

#### Strategies

- 1) Develop and promote the use of standards-based Alaska Sea Grant–sponsored curriculum materials and other educational resources that reflect current science research and engages students in maritime technology.
- 2) Provide professional development for educators in instructional strategies with emphasis on hands-on and field-based instructional strategies and engage students in school-based environmental monitoring and stewardship activities.
- 3) Provide student instruction in the classroom, on field trips, and in extracurricular activities.
- 4) Promote and support systemic change at the school, district, and statewide level to include the implementation of environmental literacy education in Science-Technology Engineering-Mathematics (STEM) and other subject areas.
- 5) Facilitate and support outreach and educational activities by Alaska researchers to teachers and students.

#### Desired outcomes

- 1) Environmental literacy instruction will be increased statewide through the integration of place-based and Alaska-relevant marine and aquatic education into the curriculum of Alaska school districts.
- 2) Formal and informal educators trained in effective teaching strategies will increase the use of Alaska Sea Grant–sponsored curriculum materials, educational resources, and improve the environmental literacy of Alaska K–12 teachers and students.
- 3) Alaska Sea Grant will be a leader and catalyst of partnerships to improve environmental literacy statewide.

**Objective #2:** Increase effective environmental literacy communication to stakeholders, including how ecosystem change affects economic, social and cultural values, and implications for conservation and management.

#### Strategies

- 1) Develop and implement a communications plan that targets key topics and issues, audiences, and methods/technology and includes approaches for evaluating communication effectiveness.
- 2) Produce and distribute books, publications, media, and other educational products and tools to enhance environmental literacy.
- 3) Lead or participate in forums, regional science conferences, or other activities where scientific and local/traditional bodies of knowledge are shared.
- 4) Provide training in science communication methods to researchers and educators.
- 5) Facilitate and support researchers' outreach to Alaska communities and visitors that includes opportunities for dialogue, discussion, and community involvement.

#### Desired outcomes

- 1) Alaskans will have increased knowledge and understanding of marine resource issues so that they can make better decisions.
- 2) Environmental literacy will be improved through effective outreach and interactive communication among researchers, educators, students, and the public.

**Goal #7:** A responsive workforce of highly skilled Alaskans in the fisheries, seafood, and maritime occupations in the state.

**Objective #1:** Prepare a diverse workforce, responsive to employer needs, to participate in and benefit from Alaska's maritime sectors.

#### 4: REFRIGERATED SEA WATER SYSTEM INSTALLATION



#### Strategies

- 1) Provide training, instruction, and fellowships to college students, graduate students, and post-graduates to gain professional skills in science, communication, research, and policy development.
- 2) Provide support and training to workers to acquire skills that make them more successful and the industries they work in more cost-effective, energy-efficient, and competitive in the global market.

- 3) Provide training to Bristol Bay area residents through the Crew Class, to train young adults in the skills needed to be a crewmember of a commercial fishing operation.

**Desired outcomes**

- 1) The Alaska workforce in fisheries, seafood processing, and other maritime occupations will have increased education and training opportunities that are accessible and relevant to changing needs.
- 2) Qualified Alaska residents will increasingly fill maritime, fisheries, and seafood processing positions.

**Objective #2:** Grow awareness of maritime occupations and career pathways among Alaskans.

**Strategies**

- 1) Continue university leadership, partnering with Maritime Works, to implement the Alaska Maritime Workforce Development Plan.
- 2) Provide information about Alaska maritime careers to students, other target audiences, and publicize job and training opportunities.
- 3) Support experiential maritime occupational programs around the state.

**Desired outcomes**

- 1) Alaska’s youth will be introduced to fisheries, seafood, and maritime occupations, information they can use in making career choices.
- 2) An increased number of youth, particularly from underserved populations, will pursue a maritime educational pathway.

**People/Organizations responsible for completing these steps:**

Gabe Dunham, Marine Advisory Program Agent, Alaska Sea Grant(ASG)/Marine Advisory Program(MAP); Davin Holen, Coastal Resilience Specialist, ASG/MAP; Marilyn Sigman, Education Specialist, ASG; Quentin Fong, Seafood Marketing Specialist, ASG/MAP; Chris Sannito; Seafood Technology Specialist, ASG/MAP; Ginny Eckert, Research Director, Interim Program Director, ASG; All contact info available here: <https://alaskaseagrant.org/about/directory/>

**Cost Estimates:**

Costs: Variable.

Timeline: Fiscal year: Feb 1-Jan 31.

Funding Partners: University of Alaska state funds, External grants, Cash and in-kind donations, Program income from publications and workshops

**Evaluation Measures:**

Summary of 2018–2021 National Performance Measures and Metrics:

National Sea Grant defines national performance standards related to all Sea Grant program activities.

**Focus area: Healthy coastal ecosystems**

- Number of resource managers who use ecosystem-based approaches in the management of land, water, and living resources as a result of Sea Grant activities.
- Number of acres of coastal habitat protected, enhanced, or restored as a result of Sea Grant activities.

**Focus area: Sustainable fisheries and aquaculture**

- Number of fishermen, seafood processing, or aquaculture industry personnel who modify their practices using knowledge gained in fisheries sustainability and seafood safety as a result of Sea Grant activities.

**Focus area: Resilient communities and economies**

- Number of communities that adopt/implement sustainable economic and environmental development practices and policies as a result of Sea Grant activities.
- Number of communities that adopt/implement hazard resiliency practices to prepare for and respond to/minimize coastal hazardous events.

**Focus area: Environmental literacy and workforce development**

- Number of Sea Grant products that are used to advance environmental literacy and workforce development.
- Number of people engaged in Sea Grant–supported informal education programs.
- Number of Sea Grant–supported graduates who become employed in a job related to their degree within two years of graduation.

**Cross cutting performance measures**

- Number of Sea Grant tools, technologies, and information services that are used by our partners/customers to improve ecosystem-based management.
- Economic and societal impacts derived from Sea Grant activities (market and non-market; jobs and businesses created or sustained).

**Key Project Contact:**

Name: Gabe Dunham

Title: Marine Advisory Program agent

Organization: Alaska Sea Grant/Marine Advisory Program



**Project #3: Support efforts to brand Bristol Bay and Bristol Bay products.**

Encourage and support other entities efforts to promote and distribute Bristol Bay salmon and other products ready for distribution. Currently, the Bristol Bay Regional Seafood Development Association (BBRSDA) is working on branding Bristol Bay sockeye in the world market. Wild seafood is by far superior and Bristol Bay is home to the world’s largest wild sockeye producer. Since the 1980’s prices paid to fishermen for wild caught sockeye have diminished or maintained despite inflation of capital needed to enter fishery. Marketing efforts to brand Bristol Bay Sockeye are underway in an effort by BBRSDA to address the lack of increased compensation to fishermen.

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#### Project Description:

Promote and market Bristol Bay wild salmon in the domestic market. Explore international markets as the brand matures and/or opportunities arise.

#### Outline of steps required for project to be completed:

- 1) Craft and implement a strategic marketing plan to inform future tactical decisions.
- 2) Increased awareness and value of the Bristol Bay brand at consumer, retail and processor level.
- 3) Stimulate increased demand and loyalty for Bristol Bay sockeye.
- 4) Identify and communicate evidence of brand impact and brand strength to retailers, direct marketers, processors, and members.

### Project #4: Provide finance and business-management services to commercial fishermen with loan investments in the local fisheries.

It is increasingly imperative that commercial fishermen are prepared to obtain and manage commercial loans to increase the capacities of their fishing operations. By providing capital assistance and training Bristol Bay Economic Development Corporation will maintain and/or increase Bristol Bay resident's ability to procure and keep fishing related loans.

#### Project Description:

Provide technical assistance to Bristol Bay Economic Development Corporation area residents looking to participate in the local fisheries. This effort is to increase the number of local residents participating in the local commercial fisheries.

#### Outline of steps required for project to be completed:

- 1) Permit Loan Program - A menu of financial and/or technical services are provided to eligible residents of the 25 watershed communities. Services may include loan guarantee, down payment grant, interest assistance, principal reduction assistance, technical assistance and/or training to successful applicants.
- 2) Personal Finance/Education - The program provides financial counseling to BBEDC residents as well as a series of workshops in communities. BBEDC contracts with Money Management International (MMI); a group that specializes in personal financial education and counseling. Staff led workshops provide financial education to groups of residents, and MMI assists individual residents with one-on-one counseling on credit reports, personal finances, debt management, credit recovery and identity theft.
- 3) Emergency Transfer Grant - With the goal of helping residents to gradually become permit owners, grants of up to 50% of the emergency transfer (lease) fee (not to exceed an established cap) for Bristol Bay limited entry drift and set permits are available to eligible BBEDC resident fishers.
- 4) Shore Fishery Lease Grant – The Shore Fishery Lease Grant Program provides eligible BBEDC residents with a grant of up to \$800 (or no more than 75% of the total cost) of gaining a State of Alaska Shore Fishery Lease.
- 5) Vessel Acquisition Program – The Vessel Acquisition Program offers resident fishers of the 17 BBEDC communities the opportunity to obtain a competitive and efficient vessel. Through an evaluative process, participants may receive technical assistance, principal reduction assistance, interest subsidy, training and/or down payment assistance. A recent addition to the program allows an opportunity for an increase in the level of assistance to provide an incentive for the purchase of vessels equipped with RSW systems.
- 6) Interest Rate Assistance – BBEDC resident fishers are provided an opportunity to reinvest in their commercial fishing operations by providing relief from a portion of the interest on fishery-related loan payments. In 2018, this program will provide 4% of interest due up to \$4,000 annually.
- 7) Tax Preparation Program – BBEDC assists residents of its 17 communities with filing timely IRS tax returns by offering up to \$125 for professional preparation per tax return, provided.
- 8) Bristol Bay Permit Brokerage – BBPB strives to retain ownership of permits by residents of the region. The Brokerage provides the following services to any member of the public at no charge other than required agency fees:
  - Serves as a satellite office for the Alaska Commercial Fisheries Entry
  - Commission (CFEC) to assist with vessel license renewals, permit renewals, permit transfers and other related communications.
  - Listings for the sale/purchase of permits and boats.
  - Listings for crew and permit holders.
  - Assistance with documents for sale and transfer of permits and boats.
  - Provide agreement templates for use by fishers for leases and emergency transfers.
  - Sample crew contract.

- 5) Collaboration with industry stakeholders, Alaska Seafood Marketing Institute, retailers, and processors to leverage reach and build brand buy-in.

#### People/Organizations responsible for completing these steps:

Bristol Bay Regional Seafood Development Association (BBRSDA)

#### Evaluation Measures:

- Bristol Bay fishers see an increased pay out per pound at time of delivery.

#### Key Project Contact:

Name:

Title: Executive Director

Organization: Bristol Bay Regional Seafood Development Association

- CFEC and Coast Guard forms.

**People/Organizations responsible for completing these steps:**

Bristol Bay Economic Development Corporation, Money Management

**Key Project Contact:**

Name: Alice Ruby  
 Title: Economic Development/Brokerage Director  
 Organization: Bristol Bay Economic Development Corporation



**Project #5: Provide assistance for resident fishers through the Bristol Bay Economic Development Corporations Regional Fisheries Program.**

The mission of BBEDC’s Regional Fisheries Program is to help make local fishing businesses more profitable and our coastal communities sustainable.

**Project Description:**

Provide Bristol Bay residents with fisheries capital, information, workshops, specific training, or other technical assistance related to the commercial fisheries in Bristol Bay.

**Outline of steps required for project to be completed:**

- 1) The Vessel Upgrade Grant Program – Grants of up to \$17,500 for set-netters and up to \$35,000 for drift boats are available for deck and fish hold upgrades, engines and engine repairs, RSW systems, electronics, other gear, and improvements that improve fish quality and fishing efficiency. In-Season Emergency Provision provides financial assistance to commercial fishers who meet the eligibility and requirements of the program policies for equipment and repairs to an engine or drive train that are catastrophic in nature to the operation.
- 2) 4E Halibut Program- to assist in the procurement and operation of Area 4E CDQ halibut fishery applications and permits.
- 3) Bristol Bay Ice - BBEDC’s two ice barges, the Bristol Maid and the Bristol Lady, will be in service for the 2018 fishing season to provide the necessary ice to increase values to catch.
- 4) Quality Improvements - Chilled fish are worth more money, to help resident fishers earn the best price for their fish in 2018, BBEDC will provide slush ice bags, insulated totes, padded deck mats, and flexible sheet foam hold insulation to Bristol Bay watershed community resident commercial fishers.
- 5) RSW Purchase Program – The RSW Purchase Program provides grants of up to \$22,000 to assist with the purchase of Refrigerated Seawater Systems (RSW) for qualifying commercial salmon operations. RSW installation and operation can enable fishers to ensure higher quality catch by chilling at the point of harvest with an onboard system that is an effective alternative to icing.
- 6) RSW Support Program – The RSW Support Program provides annual assistance of up to \$1,000 to CDQ

community resident fishers for consultation prior to and during installation of Refrigerated Seawater Systems (RSW), spring tune-ups and repairs, and winterization of



5: DILLINGHAM BOAT HARBOR

RSW units installed in their fishing vessels to help them earn more from the region’s fisheries resources by improving fish quality.

- 7) Pre-Season Advance Program – The Pre-Season Advance Program provides up to \$5,000 to help resident fishers pay pre-season expenses such as nets, insurance, license renewals, and other fishing necessities.
- 8) Help for Resident Fishers – The mission of BBEDC’s Regional Fisheries Program is to help make your fishing business more profitable and our coastal communities sustainable.

**People/Organizations responsible for completing these steps:**

Bristol Bay Economic Development Corporation  
**Key Project Contact:**  
 Name: Gary Cline  
 Title: Regional Fisheries Director  
 Organization: Bristol Bay Economic Development Corporation

**Project #6: Chignik Management Area salmon escapement enumeration and quality project.**

**Project Description:** The Chignik Intertribal Coalition will partner with others to advance technology in tabulating salmon escapement and the quality of the escapement within the Chignik Management Area (CMA) Fishery.

**Outline of steps required for project to be completed:**

**Annually:**

- 1) Establish funding and specific scope of work for partners of this project.

- 2) Assess the Chignik late-run sockeye salmon escapement quality by applying year specific age, length and sex (ALS) samples to the genetically assigned escapement count data.

- 3) Define timing and where late-run red fish (sockeye salmon) are primarily harvested in the Chignik Lake drainage by interviewing Chignik Lake Village residents. Additionally, determine whether there is selectivity toward females or males in the red-fish harvest either by personal choice and/or by gear type.

**Project Evaluation Measures**

- Tabulation of the number of male and female sockeye salmon by age in the late-run Chignik sockeye escapement-annually.
- A map defining the major and secondary harvest areas for Chignik late run red fish—3yr summary.
- Report the timing of the red-fish migration past the Chignik River weir site based on literature review of the number of days a bright fish takes to develop into a red-fish desirable for local subsistence users.
- Report if harvest selectivity occurs in the sockeye red-fish fishery w/respect to fish size and/or sex.

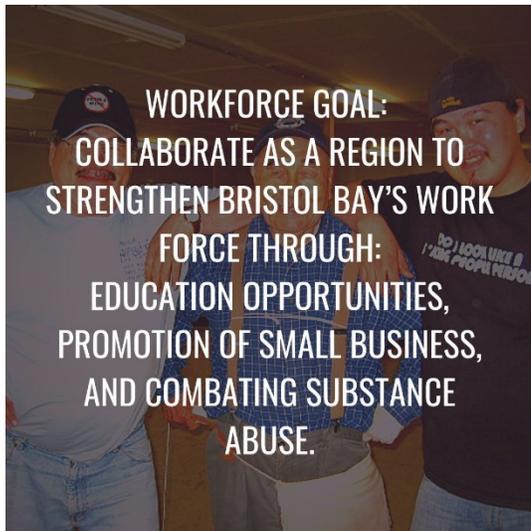
**People/Organizations responsible for completing these steps:**  
Chignik Intertribal Coalition, ADFG, Office of Subsistence Management (OSM) and Chignik Regional Aquaculture Association (CRAA).

**Cost Estimates:**  
Costs: \$200,000.00

Timeline: 3 year project  
Funding Partners: Private foundations, EDA research Program, North Pacific Research Board, OSM and CRAA

- Evaluation Measures:**
- Entities involved will be able to review Annual the data collected by this project
  - Make determinations on the CMA for sustainability purposes.

**Key Project Contact:**  
Name: George Anderson  
Title: President  
Organization: Chignik Intertribal Coalition



**Workforce Strategic Direction:  
Workforce Projects**



**Project #1: Bristol Bay Drug & Opioid Task Force Bristol Bay.\*\***

Communities coming together to end drug and opioid abuse.

**Project Description:**  
To use a holistic approach empowering individuals, families, and our communities to live a drug free, healthy lifestyle.

**Outline of steps required for project to be completed:**

- 1) Community Engagement.
- 2) Prevention.
- 3) Intervention.
- 4) Treatment.
- 5) Relapse Prevention.
- 6) Provide Resources.

**People/Organizations responsible for completing these steps:**  
Bristol Bay Native Association, Bristol Bay Economic Development Corporation, Bristol Bay Area Housing Authority, Bristol Bay Area Health Corporation, Bristol Bay Native Corporation, Tribes across Bristol Bay, service providers, public

health, State of Alaska, Law Enforcement organizations, Treatment Program, Behavioral Health Providers

**Key Project Contact:**  
Name: Tom Tilden & Carol Wren  
Title: Chair & Co-Chair  
Organization: Bristol Bay Drug & Opioid Task Force

**Project #2: Promote Bristol Bay Native Corporation Education Foundation.**

Bristol Bay Native Corporation shareholders will reach their potential, assume key roles, direct our future, and ensure continued success through higher education opportunities.

**Project Description:**  
To provide support for and encourage shareholders to pursue educational opportunities and to promote and preserve cultural heritage.

- Outline of steps required for project to be completed:**
- 1) Offer short term vocational training scholarships.
  - 2) Provide higher education scholarships.
  - 3) Provide cultural grants that enhance the cultural way of life of Bristol Bay Region.

**People/Organizations responsible for completing these steps:**  
University of Alaska Fairbanks, University of Anchorage Alaska, UAF-Bristol Bay Campus, education and vocational training centers across Alaska, Tribes and non-profits in Bristol Bay, Southwest Alaska Vocational and Education

Center, Bristol Bay Economic Development Corporation,  
Bristol Bay Native Association

**Key Project Contact:**

Name: Aleesha Towns-Bain



**Project #3: Encourage Bristol Bay Native Corporation Shareholder Development.**

Increase shareholder employment and education opportunities.

**Project Description:**

Provide opportunities for shareholders to obtain, retain, develop, and advance in jobs with and beyond Bristol Bay Native Corporation and its subsidiaries.

**Outline of steps required for project to be completed:**

- 1) Shareholder hire preference & Shareholder Talent Bank.
- 2) Recruitment & Job Placement Services.
- 3) Development of existing shareholder employees.
- 4) Develop training programs that align with jobs with Bristol Bay Native Corporation, in-region opportunities, and beyond.
- 5) Offer leadership development training programs.

- 6) Work readiness and career preparedness.
- 7) Youth development opportunities (work experience, river academy, Alaska Native Science and Engineering Program: Middle School Academy, Career and Technical Education programs).
- 8) Internship and On the Job Training positions.

**People/Organizations responsible for completing these steps:**

Bristol Bay Economic Development Corporation, Bristol Bay Native Association, School Districts across Bristol Bay, Southwest Alaska Vocational and Education Center, UAF-Bristol Bay Campus

**Evaluation Measures:**

- Newly hired shareholders.
- Descendants and spouses of shareholders.
- Number of trained shareholders.
- Descendants and spouses.

**Key Project Contact:**

Name: Carol Wren

Title: VP, Shareholder Development

Organization: Bristol Bay Native Corporation



6: TOMMY TILDEN, LUCILLE JOHNSON, DEEDEE BENNIS, & ROSE FISHER



**Project #4: Increase Bristol Bay workforce readiness by offering 10 vocational training courses each year.**

**Project Description:**

Vocational training courses will align UAF-Bristol Bay Campus education and training efforts with labor market needs. Position Alaskans for employment in high-growth, high-wage occupations.

**Outline of steps required for project to be completed:**

- 1) Identify high-growth.
- 2) High-wage occupations.
- 3) Recruit instructors.
- 4) Develop courses and submit for approval.
- 5) Implement courses.

Timeline: October 1, 2016 – September 30, 2021

Funding Partners: US Department of Education Title III NASNTI, Individual Development Grant

**Evaluation Measures:**

- 80 students gain knowledge and skills in fisheries, aviation, construction, and other high-growth high-demand fields each year & improve their career opportunities.

**Key Project Contact:**

Name: Sarah Andrew

Title: Campus Director

Organization: UAF-Bristol Bay Campus

**People/Organizations responsible for completing these steps:**  
University of Alaska Fairbanks: Bristol Bay Campus, Southwest Alaska Vocational and Education Center

**Cost Estimates:**

Costs: Salary, Benefits, Travel, Commodities; estimated total \$151,000/year



**Project #5: Increase effective transitions into postsecondary education by piloting one early college program.**

**Project Description:**

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An early college program for high school students will encourage graduation and postsecondary attainment, while vocational training courses will ensure successful transitions from school and training to employment.

**Outline of steps required for project to be completed:**

- 1) Hire Program Coordinator.
- 2) Develop program outline and align it to approved coursework.
- 3) Work with school districts to create articulated agreements.
- 4) Work with school counselors to education students and parents about program opportunities.

**People/Organizations responsible for completing these steps:**

University of Alaska Fairbanks: Bristol Bay Campus, Southwest Alaska Vocational and Education Center, Dillingham City School District, Southwest Region School District, Bristol Bay Borough School District, Lake and Peninsula School District

**Cost Estimates:**

Costs: Salary, Benefits, Travel, Commodities; estimated total \$91,500/year

Timeline: October 1, 2016 – September 30, 2021

Funding Partners: US Department of Education Title III NASNTI, Individual Development Grant

**Evaluation Measures:**

- 10 students enroll and complete early college program earning an Occupational Endorsement, Certificate, or Associate’s degree or up to 2 years of college credits toward a Bachelor’s degree during high school.

**Key Project Contact:**

Name: Sarah Andrew

Title: Campus Director

Organization: UAF- Bristol Bay Campus



**Project #6: Encourage entrepreneurs to utilize the Bristol Bay Development Fund.**

The Bristol Bay Development Fund (BBDF) will be a catalyst for in-region business start-up, survival, success, and growth through effective deployment of financial and non-financial capital.

**Project Description:**

Facilitate the success of start-up and existing businesses operating within the Bristol Bay Region. Bristol Bay Development Fund (BBDF), a wholly-owned subsidiary of Bristol Bay Native Corporation offers investment capital for eligible businesses in the seed to growth stages of a business life cycle. BBDF supports entrepreneurs and businesses with advising and expertise referrals.

**Outline of steps required for project to be completed:**

Bristol Bay Development Fund is an impact investment fund committed to investing in new or existing businesses in the Bristol Bay region or in businesses that fulfill a positive impact to the economic vibrancy. The type of investments BBDF may consider are:

- 1) Equity investments in exchange for a reasonable percent ownership in the company it is investing in.
- 2) Debt (loan) capital with interest rates and repayment schedules that include an evaluation of profitability, the financial capacity to repay the debt, and a business plan with tangible milestones in its operating or growth performance.
- 3) Convertible debt – a form of short-term debt that converts into equity typically in conjunction with a future financing round.

**People/Organizations responsible for completing these steps:**

Collaboration with entities may include: Bristol Bay Economic Development Corporation, Bristol Bay Native Association, Small Business Development Center, UAF– Bristol Bay Campus, Bristol Bay Native Corporation, Bristol Bay Chamber, Ocean Technology Innovation Summit (OTIS)/The Blue Pipeline UAA Business Enterprise Institute, United States Department of Agriculture, Alaska CDFI sector

**Evaluation Measures:**

Note: Confidentiality may limit the amount of information that can be captured in a report period. The release of information by all parties in a business transaction dictates

what type of information can be captured. For purpose of evaluating impact, it is assumed that the data captured is non-sensitive information, and generally in numerical data or available via public sources without compromising a business, funder, or personal confidentiality.

- Enhanced financial capability and business management skills (can be measured by number of persons or business personnel in Bristol Bay who receive business advising at Bristol Bay Development Fund, Small Business Development Center, Bristol Bay Economic Development Corporation, Business Enterprise Institute or a collaborative entity data capture i.e. Alaska Trends published by the State of Alaska, knowledge growth data may be collected via a collaborative survey of stakeholder entities.)
- Increased asset building through number of business start-ups, acquisitions, or expansion initiatives.
- Jobs created or retained.
- Number of business education forums conducted, number of attendees, and number of new partnerships/MOUs/other collaborative formations that result from a forum
- Introduce one business stimulation concept (incubator, Business to Business sustainability or cohort business learning, etc.).

**Key Project Contact:**

Name: Cindy Mittlestadt

Title: Fund Manager



### Project #7: The Dillingham City School District (DCSD) will work in partnership with the whole community to educate all students to be responsible citizens and reach their full potential.

#### Project Description:

The district will focus on literacy, particularly in early grades, to build a strong foundation for academic success across all subjects. The district will use Response to Intervention strategies to reduce the achievement gap. The district will equip board members and staff with knowledge and tools necessary to effectively engage with families, partners and community. The district will focus on college and career readiness with emphasis on local interest. The district will maintain a safe and respectful environment, and foster personal wellbeing and health among students and staff.

#### Outline of steps required for project to be completed:

- 1) Improve student success in reading, writing, and mathematics.
- 2) Positive Behavioral Interventions.
- 3) Dillingham City School District will develop a teacher recruitment and retention plan.
- 4) Dillingham City School District will increase graduation rate.
- 5) Dillingham City School District will renovate, maintain, and repair its K-12 facilities.
- 6) College and Career readiness

#### People/Organizations responsible for completing these steps:

Dillingham City School District staff and students, State of Alaska Department of Education, City of Dillingham

#### Cost Estimates:

Costs: ~ \$9 million

Timeline: 2020

Funding Partners: City of Dillingham, State of Alaska, U.S. Department of Education

#### Evaluation Measures:

- Increase number of students graduating with degree.
- Reduction in students needing behavioral interventions.
- Students will have higher standardized test scores.
- Decrease in teacher turn over.
- Increase in number of students attending and completing high education.

#### Key Project Contact:

Name: Jason Johnson

Title: Superintendent

Organization: Dillingham City School District



### Project #8: Provides quality comprehensive services to Bristol Bay residents, promoting individual and family self-sufficiency through employment and educations opportunities, which sustain cultural values and reflect economic trends of the Bristol Bay Region.\*\*

#### Project Description:

Through comprehensive case management Bristol Bay Native Association Workforce Development will develop and prepare resident clients for gainful employment. Every dimension of the program shall focus on work as an end result by developing positive relationships with area businesses and organizations as well as assisting with the development of regional employment opportunities through job creation/ economic development.

#### Outline of steps required for project to be completed:

- 1) Provide employment and job readiness related support services through a comprehensive case management delivery system to adults, youth, and welfare recipients of Bristol Bay to obtain, retain, or advance in employment.
- 2) Provide general education, vocational training, and higher education related services to adults who are tribally members of Bristol Bay Native Association.
- 3) Provide cash assistance services to income qualifying residents and tribal members residing within Bristol Bay Native Association's service regions following federal guidelines and/or within purposes within the Temporary Assistance to Needy Families Program and Welfare Assistance funding:
  - a) To provide assistance to needy families so children can be cared for in their own homes or in the homes of relatives.
  - b) To end the dependence of needy parents on government by promoting job preparation, work, and marriage.
  - c) To prevent or reduce the incidence of our out-of-wedlock pregnancies and to encourage the formation and maintenance of two-parent families.
- 4) Provide a quality child care program within the region to increase the availability, affordability, and quality of child care services.
  - a) Allowing maximum flexibility in developing programs and policies that best suit the needs of children and parents in Bristol Bay, increasing child care services.
  - b) Promote parental choice to empower working parents to make informed choices about child care options.
  - c) Provide child care to parents trying to achieve independence from public assistance.

- d) Implement standards relating to health, safety, and licensing.
- e) Encourage professional development youth and adult child care provider staff in centers and those operating home based service.



7: NET HANGING FOR GENERATIONS: THE GUMLICKPUK FAMILY

- 5) Increase youth employment services to youth throughout the Bristol Bay region.
- 6) Increase the effective use of subsidized and non-subsidized employment lessening the dependence on public assistance services for welfare dependent youth and adults in the Bristol Bay Region.
- 7) Develop a Tribal Employment Rights Ordinance (or Office) program providing an increase of Native employment within the region utilizing the construction trades apprenticeship program and the Southwest Alaska Vocational Education Center.
- 8) Develop positive working relationships with businesses and organizations in the region that provide employment, education, and supportive services to operate a comprehensive case management system of delivery.
- 9) Strengthen economic development opportunities for local residents to establish small businesses. Small business development is an avenue for individuals to obtain much needed income where jobs and employment opportunities are scarce in the small villages. To facilitate the growth of tribally owned micro-

**Project #9: Promote higher education scholarship opportunities to Bristol Bay Economic Development Corporation residents.**

Increase student success rate of completing post-secondary education by providing financial opportunities to qualified residents.

**Project Description:**

To provide support for and encourage residents to pursue educational opportunities and return to region post obtainment.

**Outline of steps required for project to be completed:**

- 1) Harvey Samuelsen Scholarship Trust – Scholarships are awarded to Bristol Bay CDQ residents earning degrees at accredited colleges or universities as full-time students.

- enterprises employment opportunities through job creation, economic development, and other community building activities within the service area.
- 10) Provide Tribal Vocational Rehabilitation Services to American Indian and Alaska Native residents to alleviate physical, psychological, or developmental disabilities that stand in the way of employment. Tribal Vocational Rehabilitation can assist with college and vocational training grants, small business creation, supported employment, physical restoration, and group projects. The program is counterpart with the State Vocational Rehabilitation Program.
- 11) Provide Low Income Heating Assistance to income eligible households residing in the Bristol Bay Service Region.

**People/Organizations responsible for completing these steps: BBNA Workforce Development**

**Funding Partners:**

Department of Interior Bureau of Indian Affairs: Division of Workforce Development 477 combining Job Placement and Training; Tribal Scholarships; Welfare Assistance; Department of Labor Adult and Youth Services; Native Employment Works; Department of Health and Human Services TANF and Child Care Development; The Department of Education American Indian Vocational Rehabilitation Services; and the Department of Health and Human Services Low Income Energy Assistance

**Evaluation Measures:**

- Number of adults, youth, and cash assistance participants served.
- Number of Short and Long-term client goals developed and completed.
- Client Work Participation Hours completed.
- Number of Clients obtaining, retaining, or advancing in employment.
- Number of businesses assisted
- Number of businesses developed.
- Number of group projects developed.

**Key Project Contact:**

Name: Serena Aikins-McArthur  
 Title: Director of Workforce Development  
 Organization: Bristol Bay Native Association

- 3) College Development Fund – Financial aid is offered to Bristol Bay CDQ residents pursuing college degrees on a part-time basis. The program prioritizes the utilization of the University of Alaska or Alaska Pacific University systems.
- 4) Vocational Program – Funds are available for individuals who are interested in advancing in vocational education or who are seeking new or enhanced skills related to their employment.

**People/Organizations responsible for completing these steps:**  
 University of Alaska Fairbanks, University of Anchorage  
 Alaska, UAF-Bristol Bay Campus, education and vocational

training centers across Alaska, Tribes and non-profits in Bristol Bay, Southwest Alaska Vocational and Education Center, Bristol Bay Economic Development Corporation

**Evaluation Measures:**

- Defer educational and training expenses for CDQ residents *by \$0.5-1.2 million per year.*

**Key Project Contact:**

Name: Pearl Strub  
 Title: Education, Employment & Training Director  
 Organization: Bristol Bay Economic Development Corporation

**Project #10: Promote employment opportunities to Bristol Bay Economic Development Corporation residents within the region or Community Development Quota seafood processing.**

Provide BBEDC residents with new opportunities for employment through internships, training opportunities, and seasonal employment.

**Project Description:**

Increase BBEDC residents exposure to career opportunities, through programs designed for residents who wish to pursue alternative careers while remaining in region.

**Outline of steps required for project to be completed:**

- 1) Internships – Many exciting opportunities for internships in Bristol Bay are available to both youth and adults. Youth internships are offered to CDQ community residents between the ages of 14 to 17 and provide educational and training elements with the employment position. Adult internships are designed to allow residents to work with partnering businesses and agencies to offer meaningful practical work experience related to interests and career goals.
- 2) Community/Group Training Fund – Funding is offered to BBEDC village, city, and borough governments with accredited or known training providers to provide training opportunities that are fisheries-related or deemed capacity building for BBEDC CDQ residents seeking new or enhanced skills related to their fishing operations or primary employment.
- 3) Seasonal Employment Opportunities – Residents of BBEDC communities who wish to learn new work skills and gain experience through on-the-job training in entry-level seasonal employment can apply for positions created by

this program. BBEDC works cooperatively with organizations and businesses to create entry-level seasonal positions for residents.

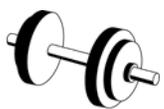
- 4) At - Sea Employment – BBEDC recruits individuals for seafood processing jobs on the Bering Sea.
- 5) Salmon Camp – The Bristol Bay Salmon Camp provides high school and middle school students with an opportunity to learn about Bristol Bay salmon biology and management.

**People/Organizations responsible for completing these steps:**

Bristol Bay Economic Development Corporation, Arctic Storm/ Fjord, American Seafoods and Dona Martita (Pollock boats), Alaskan Leader (longliners), Kaldestad Fisheries (crab boats), U.S. Seafoods (multi-species bottom fish boats), Icicle Seafoods (floating processors and land plants), Westward Seafoods, and Ocean Beauty Seafoods (land plants).

**Key Project Contact:**

Name: Pearl Strub  
 Title: Education, Employment & Training Director  
 Organization: Bristol Bay Economic Development Corporation



**Project #11: Bristol Bay Economic Development Corporation will provide grants for employment opportunities within the region.**

BBEDC will provide communities with grants to: support and foster jobs and promote BBEDC programs to smaller communities.

**Outline of steps required for project to be completed:**

- 1) Arctic Tern Program – Through an application process, BBEDC grants up to \$6,000 to each BBEDC community to be used to support and foster jobs, employment activities, or learning opportunities for resident young people up to 17 years of age. The BBEDC Board feels strongly that introducing youth to the workplace can provide a small

income as well as a head start on valuable work skills and encourages pride and a sense of community responsibility. Also of value are educational activities related to employment opportunities, economic issues, career choices and leadership forums that will enhance our resident youths' exposure to the world of work.

- 2) Community Liaison Program - Grants are made available to each BBEDC community to provide liaison services in the community. Liaison services include promoting BBEDC programs, serving as a point of contact for BBEDC staff and residents in their individual communities for program delivery at the community level.

**People/Organizations responsible for completing these steps:**  
 Bristol Bay Economic Development Corporation, regional Tribes and municipalities  
**Key Project Contact:**  
 Name: Alice Ruby  
 Title: Economic Development/Brokerage Director  
 Organization: Bristol Bay Economic Development Corporation



**Project #12: Bristol Bay Economic Development Corporation will provide resident entrepreneurs and communities with technical assistance resources.**



8: GETTING READY FOR SETTING THE NET: DRIFT BOAT

**Outline of steps required for project to be completed:**

- 1) Technical Assistance Program - BBEDC provides resident entrepreneurs and communities with a source of assistance with the help of an established and experienced consulting firm, the Alaska Business Development Center (ABDC):

**People/Organizations responsible for completing these steps:**  
 Bristol Bay Economic Development Corporation  
**Key Project Contact:**  
 Name: Alice Ruby

BBEDC understands that the paperwork necessary to own and operate a business can an overwhelming undertaking because of this BBEDC has created a program to help entrepreneurs and communities with technical assistance.

**Project Description:** BBEDC provides resident entrepreneurs and communities with a source of assistance in developing business plans, feasibility analysis (small projects), grant mentoring, completing loan applications, financial counseling, and the other technical aspects of developing small businesses. The program provides assistance from an established and experienced consulting firm, the Alaska Business Development Center (ABDC), to successful applicants. The applicants must actively work with the consultant towards a finished product.

- 2) Business plans.
- 3) Feasibility analysis (small projects).
- 4) Grant mentoring.
- 5) Completing loan applications.
- 6) Financial counseling.
- 7) Other technical aspects of developing small businesses.

Title: Economic Development/Brokerage Director  
 Organization: Bristol Bay Economic Development Corporation

**Project #13: Repair/Replace Roof Southwest Alaska Vocational & Educational Center’s existing Building 647.**

**Project Description:** Infrastructure is needed to uphold SAVEC’s mission, “to promote, coordinate and provide high quality training and education to the residents of Southwest Alaska,” by providing jobs training in the fishery/maritime and support industries.

**Partner Organizations for Operation:** US Dept. of Defense, Bristol Bay Economic Development Corporation, Bristol Bay Native Association, Bristol Bay Native Corporation, UAF Bristol Bay Campus, Bristol Bay Borough, Lake & Peninsula Borough, Bristol Bay Area Health Corporation, Bristol Bay Housing Authority

**Cost Estimates:**

Costs: \$800,000.00  
 Timeline: July 1, 2018 – June 30, 2021

**Funding Partners:** USDA, EDA, Vocational Fund for Alaska’s Future (VFAF), 3. Rasmuson Foundation, The Alaska Community Foundation

**Key Project Contact:**  
 Name: Anishia Elbie  
 Title: Co-Executive Director  
 Organization: Southwest Alaska Vocational & Education Center (SAVEC)

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**Project #14: Modernization and Renovation of the Southwest Alaska Vocational & Education Center (SAVEC) building and facilities to meet modern demand to meet mission to promote, coordinate and provide high quality training and education to residents of Southwest Alaska.**

**Project Description:** Infrastructure needs in SAVEC's facilities to include but not limited to:

- 1) Classroom Technology/Equipment
- 2) Dormitory Rooms
- 3) Facility Laundry
- 4) Electrical Systems
- 5) Energy Efficiency/Weatherization
- 6) Boiler/Heating
- 7) Telecommunication System
- 8) Internet
- 9) Commercial Kitchen
- 10) Training Equipment

Campus, Bristol Bay Borough, Lake & Peninsula Borough, Bristol Bay Area Health Corporation, Bristol Bay Housing Authority

**Cost Estimates:**

Costs: Unknown

Timeline: July 1, 2018 – June 30, 2023

Funding Partners: USDA, EDA, Bristol Bay Housing Authority

**Key Project Contact:**

Name: Anishia Elbie

Title: Co-Executive Director

Organization: Southwest Alaska Vocational & Education Center (SAVEC)

**Partner Organizations for Operation:** US Dept. of Defense, Bristol Bay Economic Development Corporation, Bristol Bay Native Association, Bristol Bay Native Corporation, UAF Bristol Bay

**Project #15: Increase healthy, educated, and employed local regional workforce through SAVEC's mission to promote, coordinate and provide high quality training and education to residents of Southwest Alaska.**

**Project Description:** Vocational training courses/certifications that meet trained workforce needs of business, fishery/maritime and support industry and increases Alaska resident hire in occupations with high percentages of Nonresident Workers including alternative & renewable energy, education, hospitality and tourism, maritime & seafood processing, construction, health care, information technology, natural resource development (oil, gas & mining and transportation).

**Partner Organizations for Operation:** US Dept. of Defense, Bristol Bay Economic Development Corporation, Bristol Bay Native Association, Bristol Bay Native Corporation, UAF Bristol Bay Campus, Bristol Bay Borough, Lake & Peninsula Borough, Bristol Bay Area Health Corporation, Bristol Bay Housing Authority

Corporation, UAF Bristol Bay Campus, Bristol Bay Borough, Lake & Peninsula Borough, Bristol Bay Area Health Corporation, Bristol Bay Housing Authority, US Department of Labor, AK Department of Labor, Moore Foundation

**Key Project Contact:**

Name: Anishia Elbie

Title: Co-Executive Director

Organization: Southwest Alaska Vocational & Education Center (SAVEC)

**Cost Estimates:**

Costs: \$800,000.00 per year

Timeline: July 1, 2018 – June 30, 2021

Funding Partners: Bristol Bay Economic Development Corporation, Bristol Bay Native Association, Bristol Bay Native

**Project #16: Assure Bristol Bay's access to relevant news, public safety information, vocational education, and entertainment.**

**Project Description:** KDLG seeks to grow its capacity to produce news stories, provide live coverage of community events (i.e. high school basketball games), announce community bulletins, and provide public safety information.

**Funding Partners:** State of Alaska Public Radio, Regional Small Grants, Sponsorship

**Key Project Contacts:**

Sam Gardner, KDLG General Manager

Izzy Ross, KDLG Reporter

KDLG: Public Radio for Alaska's Bristol Bay

**Project #17: Build capacity for the Chignik Intertribal Coalition (CIC).**

**Project Description:** Capacity building and operations budgeting through training. Chignik Intertribal Coalition is a new organization comprised of the federally recognized tribes located in the Chignik Region (Chignik Bay, Chignik Lake, Chignik Lagoon, Perryville and Ivanof bay). These tribes depend on the sustainability and viability of the Chignik Management Area subsistence and commercial fisheries.

**People/Organizations responsible for completing these steps:** Members of CIC and supporting Tribal Communities.

Funding Partners: Fish and Wildlife Foundation, the Alaska Community Foundation

**Cost Estimates:**

Costs: \$150,000.00

Timeline:

**Evaluation Measures:**

- 6 people will be able to receive training in various capacities for CIC.

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**Key Project Contact:**

Name: George Anderson

Title: President

Organization: Chignik Intertribal Coalition

**Project #18: Bristol Bay Regional Career and Technical Education Program to build workforce skills and job and career awareness that directly relates to the Bristol Bay Region for high school students.****Project Description:**

The Bristol Bay Regional Career and Technical Education Program is a consortium of Bristol Bay Borough School District, Lake and Peninsula School District, Southwest Region School District, and Dillingham City School District. Through the consortium high school students at every school site in the region are able to apply to attend week-long residential intensive coursework at no cost. Courses and programs are created with the goal of addressing regional workforce needs and creating classes that will build interest and skills into the needed professions.

**Outline of steps required for project to be completed:**

- 1) Build coursework and programs to interest and build certifications and skills in regionally applicable workforce and career skills.
- 2) Courses/Programs to include: Commercial fishing, refrigerated seawater systems, 12 volt electrical, maritime hydraulics, allied health, cosmetology, wildland firefighting, facilities maintenance, construction, welding and aluminum fabrication, sustainable energy, education, driver's education, CDL, culinary arts, maritime industries, tourism, and aviation.
- 3) Work with each school district to build a schedule that works for students to miss four separate weeks to be able to allow for 20 different courses per year.
- 4) Attain funding to complete dorm facility in Naknek and build facility in Dillingham
- 5) 5. Attain funding to provide logistics and career development position to assist with the needs of the growing programs.
- 6) Work with regional organizations to continuously refocus coursework to address current workforce needs and match coursework to provide the most up to date training and certifications.
- 7) Connect high school career counselors with post graduate educational partners (University, AVTEC, Etc.) to help bridge the gap for students interested in

furthering their education or moving into apprenticeship programs.

**People/Organizations responsible for completing these steps:**

Bristol Bay Regional Career and Technical Education Staff, Bristol Bay Campus, Bristol Bay Economic Development Corporation, Alaska Sea Grant, Bristol Bay Native Association, Job Corps, University of Alaska, Bristol Bay Native Corporation, AVTEC, Katmai National Park, Togiak National Wildlife Refuge, Alaska Department of Fish and Game, Becharof National Wildlife Refuge, Bear Trail Lodge, Renewable Energy of Alaska, Bristol Bay Job Center

**Cost Estimates:**

Costs: Instructors salary, director salary, student and instructor travel, food, books, housing, Insurance, instructional materials for purchase and lease.  
Timeline: Attain funding for new facility-2020. Complete and build new facility-2020-2022 Attain funding for logistics and career development counselor position-2020, hire for position-2020-2021  
Current courses-4 weeks of intensive coursework during the school year-September, November, March, and May; 10 day summer intensive coursework

**Funding Partners:**

BBEDC, Regional School Districts/Boroughs, Federal Perkins Grants, BBNC, BBNC Subsidiaries, AVTEC, University of Alaska (multiple campuses)

**Evaluation Measures:**

- Number of college credits and certifications earned through BBRCTE coursework
- Student Surveys at the end of each session
- Department of Labor tracking of student graduates
- Post graduate surveys to determine numbers of students either going to work through the trainings that they received or continuing into further study or apprenticeship

**Key Project Contact:**

Name: Zach Stenson

Title: Director

Organization: Bristol Bay Regional Career and Technical Education



## Transportation and Infrastructure Strategic Direction:



### Transportation Projects

**Project #1: Identify and create a database of Bristol Bay region infrastructure projects to coordinate employment and logistics of their project needs.**

Bristol Bay Native Association Transportation and Infrastructure Department will coordinate with Bristol Bay communities to identify upcoming projects for the purpose of creating a regional database. This database will be a tool for Bristol Bay Native Association to coordinating local employment training and logistics needed to completing projects in a streamlined fashion.

#### Outline of steps required for project to be completed:

- 1) Develop and maintain a comprehensive, prioritized inventory database of community infrastructure projects.
- 2) Assist communities in acquiring personnel, machinery, and equipment needed for construction and maintenance.
- 3) Identify potential funding partners.
- 4) Develop a qualified workforce to promote employment opportunities.

#### Evaluation Measures:

- Having a fluid list of projects that Bristol Bay Native Association departments can reference for coordinating infrastructure related efforts.
- The list is up-to-date.
- People are able to access the list.
- Increased local hire for construction projects.

- Communities can save money in shipping costs due to consolidating efforts.

#### Key Project Contact:

Name: Annie Fritze

Title: Program Manager, Department of Transportation and Infrastructure Development

Organization: Bristol Bay Native Association



### Project #2: Support the Ekuk-Clarks Point Road.

The villages of Ekuk and Clarks Point are working on creating a road between the two communities. The road will increase both communities ability to grow and manage growth by allowing more access to land. Increase both communities ability to process and direct market fish. The road will serve the village of Ekuk by allowing access to; the larger Clarks Point airport, Clarks Point Health Clinic, and a new joint landfill site. Clark Point will benefit by having road access to a new landfill site and having more seasonal foot traffic for local businesses.

#### Outline of steps required for project to be completed:

- 1) Design and engineer.
- 2) Locate funding.
- 3) Permitting.
- 4) Construction.
- 5) Closeout.

#### People/Organizations responsible for completing these steps:

Bristol Bay Native Association, Municipalities and Tribes of Clarks Point and Ekuk, State of Alaska, Bristol Engineering

Services Corporation, Bristol Bay Economic Development Corporation

#### Evaluation Measures:

- The road is complete.
- The public has access.

#### Key Project Contact:

Name: Annie Fritze

Title: Program Manager, Department of Transportation and Infrastructure Development Organization: Bristol Bay Native Association



### Project #3: Develop Hazard Mitigation Plans for Bristol Bay communities.

Bristol Bay Native Association Tribes increase their resiliency and capabilities in Emergency Management by fulling engaging in the mitigation phase of Emergency Management.

#### Outline of steps required for project to be completed:

- 1) Conducting hazard mitigation planning for each member tribe in the Bristol Bay region.
- 2) Conducting a Regional Hazard Mitigation planning.
- 3) Identifying and documenting natural and manmade hazards in Bristol Bay.
- 4) Prioritizing mitigation action in tribal and regional hazard mitigation plans.

- 5) Increasing capabilities of Bristol Bay Native Association and tribes to prepare and update hazard mitigation plans.
- 6) Continuing to develop community multi-jurisdictional hazard mitigation teams.

**People/Organizations responsible for completing these steps:**

Bristol Bay Native Association: Department of Transportation and Infrastructure, the thirty-one Bristol Bay communities

**Evaluation Measures:**

- Thirty-one tribes of Bristol Bay have Hazard Mitigation Plans

- Bristol Bay region has an area wide Hazard Mitigation Plans

**Key Project Contact:**

Name: Annie Fritze

Title: Program Manager, Department of Transportation and Infrastructure Development

Organization: Bristol Bay Native Association



**Project #4: Encourage local residents to obtain the necessary training needed to be hired on as construction crew.**

Construction and infrastructure projects often require bringing in additional workforce to the region to meet regulation requirements. Bristol Bay has an untapped human capital resource that could be utilized to fill these positions.

**Outline of steps required for project to be completed:**

- 1) Conduct community outreach.
- 2) Recruit a workforce.
- 3) Provide training opportunities.
- 4) Network with industry to encourage local hire.

**People/Organizations responsible for completing these steps:**

Bristol Bay Native Association: Department of Transportation and Infrastructure, the thirty-one Bristol Bay communities,

Southwest Alaska Education and Vocational Center, UAF-Bristol Bay Campus

**Evaluation Measures:**

- 9 people are trained and employed in construction field.

**Key Project Contact:**

Name: Annie Fritze

Title: Program Manager, Department of Transportation and Infrastructure Development

Organization: Bristol Bay Native Association



**Project #5: Develop Tribal Transportation Safety Plans for thirteen communities.**

Review thirteen communities' transportation routes for the purpose of creating safety plans to reduce injury and death.

**Outline of steps required for project to be completed:**

- 1) Review transportation routes to and from communities.
- 2) Establish leadership in communities.
- 3) Collect data of transportation safety issues.
- 4) Develop safety plan.

**People/Organizations responsible for completing these steps:**

Bristol Bay Native Association: Department of Transportation and Infrastructure, the thirteen Bristol Bay communities

**Key Project Contact:**

Name: Annie Fritze

Title: Program Manager, Department of Transportation and Infrastructure Development

Organization: Bristol Bay Native Association

**Evaluation Measures:**

- Thirteen communities have Transportation Safety plans.
- Reduction in injury and fatality rates to communities with Transportation Safety plans.

9: ROAD CONSTRUCTION IN DILLINGHAM





### Project #6: Support Dillingham community infrastructure projects:

The community of Dillingham is a major hub for the Bristol Bay region, because of this the infrastructure of the community not only supports Dillingham but supports all the Bristol Bay communities to varying levels. In order to ensure Dillingham can service the outlying communities it is imperative that Dillingham has the necessary infrastructure to support these services-based entities. In the spring, many regional community members travel to Dillingham for the summer to participate in the commercial and subsistence fisheries. They use the infrastructure in Dillingham to support their needs during the summer months.

#### Outline of steps required for project to be completed:

- 1) Wastewater System Upgrades-Aeration: \$740,000
- 2) Landfill Groundwater Monitoring Wells: \$350,000
- 3) Water System Improvements-(Phase I): \$1,988,000
- 4) D Street & Seward Street Rehabilitation Project: \$3,110,000
- 5) Lake Road Fire Hall Renovation: \$608,000
- 6) Water System Improvements- (Phase II & III): \$2,262,073

### Project #7: Bristol Bay Native Corporation Land Department.

To acquire, assess, add value to, develop, and steward the lands, resources, and waters of the Bristol Bay region.

#### Project Description:

Bristol Bay Native Corporation as the owner of more than three million subsurface acres and more than 116,000 surface acres of lands in the Bristol Bay region seeks to maximize the economic, social, and cultural value of those lands by pursuing responsible resource development projects guided by a Fish First priority.

#### Outline of steps required for project to be completed:

- 1) Assess renewable and nonrenewable resources for potential development.
- 2) Support in-region road, energy, and infrastructure projects as appropriate.
- 3) Steward the subsistence resources of the Bristol Bay region and protect the subsistence opportunities of our shareholders.
- 4) Promote better understanding of and appreciation for the region's land and cultural resources.
- 5) Partner with regional stakeholders including the tribes, village corporations, municipal governments, and other

organizations on programs and projects that will benefit the region.

#### People/Organizations responsible for completing these steps:

Bristol Bay Native Corporation and regional Village Corporations as appropriate

#### Key Project Contact:

Name: Daniel Cheyette  
Title: VP Lands and Natural Resources  
Organization: Bristol Bay Native Corporation Land Department

### Project #8: Bristol Bay Economic Development Corporation will provide communities with grants to promote economic development.

BBEDC will assist communities in economic development through grant opportunities.

#### Project Description:

BBEDC offers Community Block Grants and Infrastructure Grants to further development efforts.

#### Outline of steps required for project to be completed:

- 1) Community Block Grant Program - Provide grants to BBEDC communities' local government organizations (Tribal or City government) to fund development of projects that promote sustainable community and regional economic development. Communities may use a

portion of their funds for: fuel/electric assistance for eligible low-income residents, maintenance and operations for community-owned ice machines, and/or other community facilities on an annual basis. The BBEDC Board determines the level of funding available to

communities; the amount budgeted for 2018 is \$500,000 per community.

- 2) Infrastructure Grant Fund -Available to BBEDC communities and provides funding to local government organizations (Tribal or City government) for development of infrastructure that promotes or supports long-term economic growth and development of the regional economy.

**People/Organizations responsible for completing these steps:**  
Bristol Bay Economic Development Corporation, Eligible Bristol Bay Tribal and City governments

**Key Project Contact:**

Name: Alice Ruby  
Title: Economic Development/Brokerage Director  
Organization: Bristol Bay Economic Development Corporation

### Project #9: Pilot Point Seafood Processing Plant.

Create local jobs, increase job training and commercial fishing opportunities, increase local fish tax base for social services, and create a sustainable regional economic development project.

**Project Description:** Construct an 18,500 square feet processing facility in Pilot Point. Raw fish products will be transported to processing facility via pipeline attached to a small dock anchored with dolphin moorings approximately 1400 feet off-shore.

**Outline of steps required for project to be completed:**

- 1) Complete final design of plant and off-shore infrastructure (EDA Job # 07-01-07420)
- 2) Complete power grid modifications and energize/develop the six freshwater wells.
- 3) Construct necessary water pipelines and install 55,000 gallon holding tank.
- 4) Construct 2400 square feet heavy equipment maintenance building.
- 5) Construct 2/3 of proposed 210 bed bunkhouse.
- 6) Secure all necessary regulatory permits.
- 7) Construct processing plant and off-shore infrastructures.
- 8) Construct two single family homes.
- 9) Finish construction of proposed bunkhouse (remaining 1/3).

**People/Organizations responsible for completing these steps:**

Pilot Point Tribal Council (PPTC) will own and lease our proposed fish processing plant. A major tenant has been identified and Memorandum of Understanding (MOU) is being drafted.

**Cost Estimates:**

Costs: 18 – 21 million  
Timeline: Plant will operate 2020.  
Funding Partners: BBEDC, IRS New Market Tax Credit Program, USDA, and EDA

**Key Project Contact:**

Name: Daniel Kingsley  
Title: Project Consultant  
Organization: Pilot Point Tribal Council

### Project #10: Lengthen Pilot Point's Airstrip from 3,400 to 5,000 linear feet.

**Project Description.**

Lengthen the Pilot Point Airstrip to increase access for fish processing capacity and community air services, including emergency response.

**Outline of steps required for project to be completed:**

- 1) Complete preliminary engineering and cost estimates (State DOT).
- 2) Execute Village resolution outlining funding mechanisms.
- 3) Lease or purchase gravel crusher for top surfacing (PPTC).
- 4) Construct extension with State DOT over-sight (PPTC).
- 5) Airport ownership and maintenance will remain State of Alaska, DOT, and Division of Aviation.

**People/Organizations responsible for completing these steps:**

Pilot Point Tribal Council and State of Alaska, DOT, Division of Aviation and Public Facilities.

**Cost Estimates:**

Costs: 3 – 3.5 million  
Timeline: Tentative construction summer 2019.  
Funding Partners: IRS New Market Tax Credit Program and PPTC will apply for US DOT Tiger Transportation Program funding.

**Evaluation Measures:** Successful lengthening of airstrip to 5,000 linear feet.

**Key Project Contact:**

Name: Victor Seybert  
Title: President  
Organization: Pilot Point Tribal Council

### Project #11: Ugashik River Road.

The commercial fishermen of the Village of Ugashik will be able to transport their fish to the Pilot Point Processing facility via a road system. Also, fuel and propane can be delivered in bulk to the Ugashik residents from the Pilot Point bulk fuel facility.

**Project Description:** Complete final design and construct a gravel road from Pilot Point to the Ugashik River approximately 2 miles upstream of the Village of Ugashik.

**Outline of steps required for project to be completed:**

- 1) Obtain funding from the BIA-IR Roads program to complete the project.
- 2) Finish final design.
- 3) Construct road.

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**People/Organizations responsible for completing these steps:**

Pilot Point Tribal Council, City of Pilot Point and BBNA IR Roads Program.

**Cost Estimates:**

Costs: Unknown at this time

Timeline: 2019 - 2020

Funding Partners: BIA IR Roads Program, Denali Commission

**Evaluation Measures:**

Ugashik residents are able to deliver fish to Pilot Point processor.

**Key Project Contact:**

Name: Suzanne Evanoff

Title: Village Administrator, IR Roads Coordinator

Organization: Pilot Point Tribal Council



**Project #12: Support Bristol Bay Borough infrastructure projects.**

The Bristol Bay Borough is the commercial fishing industry hub for the region, because of this the infrastructure of the community not only supports the Borough but supports all the Bristol Bay communities to varying levels and supports a majority of the commercial fishing industry. In order to ensure the Borough can service the industry and surround communities it is imperative that the Borough has the necessary infrastructure to support industry needs. In the spring, many regional community members and fish processors travel to the Naknek community for the summer to participate in the commercial and subsistence fisheries. They use the infrastructure in the Borough to support their needs during the summer months.

**List of projects to be completed and Costs associated:**

**\*\*\*Please note: Complete project descriptions are available on the BBB webpage- Planning CIP**

**Category "A" Priorities**

Category A contains the Borough's highest priority Capital Improvement Projects. These projects will command the largest percentage of the Borough's time and efforts until they are completed. They will have the most significant impact on the region's economic development and quality of life. The completion of these projects will result in social and/or economic benefits for the State of Alaska, the Bristol Bay Borough and the region. Projects that are nominated for the State Transportation Improvement Program (STIP) are indicated by the letters "STIP". Projects that were submitted to the Community Transportation Program (CTP) are indicated by the letters "CTP"

- 1) PHASE II Naknek Sewer System Upgrade, Naknek Sewer Improvements Phase II approximately 3.2 miles to the East from the end of Phase I to the Leader Creek Lift Station. Approximately 17,000 LF of sewer main upgrade (gravity sewer and force main), upgrades to the Port Lift Station, Port force main improvements, general and capacity increases, Upgrades to the Naknek Trading Lift Station with general and capacity increases, Leader Creek lift station improvements, replace Leader Creek force main, with general and capacity increases. The reconnection and repair of sewer service lines. Engineering and Design work to be completed 12/1/2019. Borough funds have appropriated at \$800,000 to begin work on the Naknek Trading Lift Station, previously designed as Additive Alternative 1. Total: \$12,300,000
- 2) Recovered Heat Line Replacement (BBB Loop Only), Replacement of recovered heat lines that provide heat from the Nakenk Electric Generation Plant to the Borough owned facilities on the BBB facility loop to include the

ambulance barn, clinic, pool and school facilities: \$1,500,000

- 3) Naknek King Salmon Pathway Project (STIP) (7) "CTP"(2), Pedestrian and bicycle path along the Alaska Peninsula Highway, From Downtown Naknek to Donna G Subdivision Phase I (STIP)(\$1,700,000), From Flat Nose Henry St. to Downtown King Salmon Phase II (STIP)(\$1,700,000),From Donna G Subdivision to Flat Nose Henry St. Phase III (STIP)(\$3,466,700),Total Estimated Cost: \$6,866,700
- 4) PHASE II King Salmon Sewer Upgrade, Replacement of all lift station equipment, grinder pumps, improve manholes and sewer lines as needed. Expansion of King Salmon service area: \$5,000,000
- 5) South Naknek Road Improvements STIP (4) CTP (1), Surfacing improvements to all Borough maintained roads in South Naknek. The rehabilitation would include placing a base course of approximately six inches of "pit-run" rock, topped with a six inches of "D-1" grade gravel to form a reliable, long lasting driving surface. \$1,512,000
- 6) PHASE III Naknek Sewer System Upgrade, Relocate sewer lagoons away from erosive bank above the shoreline, replacement of lagoons, outfall line and pump house to meet current DEC standards: \$17,700,000
- 7) Bristol Bay Borough Bridge I Hydro Projects: \$40,000,000
- 8) Port of BBB Dock Expansion Construction Phase III STIP (8): \$6,500,000
- 9) Public Safety Building Fire and EMS (located at a mid-point AK Pen Hwy.): \$5,000,000
- 10) Industrial Park and Small Boat Facility: \$7,000,000
- 11) South Naknek Dock and Road Access Improvements STIP (2): \$6,000,000
- 12) Naknek By-Pass Link, Road & Pathway Projects STIP (9): \$1,560,000
- 13) Shoulder Improvements to the Alaska Peninsula Highway between Naknek and King Salmon: \$10,000,000
- 14) South Naknek Beach Access Road STIP (1): \$1,000,000

- 15) Bristol Bay Borough Playground Equipment Replacement: \$1,500,000
- 16) Public Works Facility Building and Equipment Yard: \$1,500,000

- 5) Acquire and Retrofit King Salmon Air force Base Gym \$ 500,000
- 6) Landfill Expansion Master Plan \$ 250,000
- 7) Airport Parking Long term and short term King Salmon Airport \$ 500,000

**CATEGORY B**

Category B contains Capital Improvement Project Priorities that are of lower cost, assistance by legislative funding is needed to accomplish these improvements for the citizens of the Bristol Bay Borough.

- 1) Bristol Bay Borough Sewer Lagoon Pump House Improvements \$ 300,000
- 2) Emergency Back Up Generators for Borough Emergency Shelters \$ 180,000
- 3) Sand Storage Buildings (2) \$ 500,000
- 4) Multi-Use Community Recreation Center - Teen Center \$ 500,000

**People/Organizations responsible for completing these steps:**  
The Bristol Bay Borough; State of Alaska, Department of Transportation,

**Funding Partners:**

USDA: federal, US DOT-BUILD Program, USDA: AK Village Solid waste, EDA, FEMA, USDA Federal, Bonds, DEC-Loan Program, EPA, Rural Community Assistance Corporation, HUD: Community Development Block Grant,

**Key Project Contact:**

Name: Becky Savo  
Title: Borough Planner  
Organization: Bristol Bay Borough

**Project #13: Support Lake and Peninsula Borough infrastructure projects.**

The infrastructure projects listed below improve the quality of life for each community helping to ensure happy, healthy, and functional Bristol Bay families and communities.

**List of projects to be completed:**

**BOROUGH-WIDE PRIORITIES**

- I. Iliamna Lake Regional Dock and Breakwater
- II. INNEC Power Plant Upgrades
- III. Chignik Bay Hydro Dam

**CITY OF CHIGNIK**

*Short Term Priorities*

- 1) Completion of HUD Hill Road
- 2) Tsunami Shelter
- 3) Boat harbor showers

*Long Term Priorities*

- 1) Water Transmission Line
- 2) Hydro-Dam
- 3) Harbor Expansion

**CHIGNIK LAGOON**

*Short Term Priorities*

- 1) Drinking water
- 2) Fuel truck
- 3) Grader
- 4) Rock screening plant
- 5) Emergency shelter

*Long Term Priorities*

- 1) Road to Landfill
- 2) Clinic/Garage/Hangar/Apartment
- 3) Intertie Road/ Airport
- 4) Alternative Energy

**CHIGNIK LAKE**

*Short Term Priorities*

- 1) Electric utility inspection/upgrade
- 2) Post office
- 3) Water treatment facility

- 4) Energy efficient products for community members
- 5) Boat launch
- 6) Clinic upgrades
- 7) Alternative energy
- 8) Housing

*Long Term Priorities*

- 1) Community office building
- 2) Housing
- 3) Intertie road
- 4) Emergency shelter
- 5) Alternative energy
- 6) Airport extension, lighting & resurfacing
- 7) Post office
- 8) Electric utility inspection/upgrade
- 9) Water treatment facility
- 10) Energy efficient products for community members
- 11) Clinic upgrades
- 12) Landfill

**CITY OF EGEGIK**

*Short Term Priorities*

- 1) Airport Lighting and Improvements
- 2) Tank Farm Repair
- 3) New Fuel Truck

*Long Term Priorities*

- 1) Repair Water Plant Building
- 2) Airport Building Addition
- 3) Park and Walking Trail



10: VILLAGE OF IGIUGIG

**IGIUGIG**

*Short Term Priorities*

- 1) 5,000 Gallon Fuel Tanker
- 2) Community Cultural Center
- 3) Washeteria Upgrade and Heat Recovery Loop Upgrade
- 4) Clinic Energy and Water Upgrade
- 5) Grader

*Long Term Priorities*

- 1) Water line extension
- 2) Float plane access road
- 3) Runway extension/ land acquisition
- 4) Kaskanak Road: The Cook Inlet to Bristol Bay
- 5) Sewage lagoon upgrade

## ILIAMNA

### Short Term Priorities

- 1) Landfill equipment (skid-steer)
- 2) Community hall with commercial kitchen & transit building
- 3) Fire department training & recruitment funds

### Long Term Priorities

- 1) Street lighting
- 2) Breakwater/dock facility
- 3) Senior living facility

## KOKHANOK

### Short Term Priorities

- 1) Capacity building
- 2) Electrical upgrades
- 3) Backhaul project

### Long Term Priorities

- 1) Multipurpose building
- 2) Infrastructure renovations
- 3) Roads upgrade

## LEVELOCK

### Short Term Priorities

- 1) Boat storage/haul out
- 2) Community laundromat
- 3) Airport terminal/passenger safety building

### Long Term Priorities

- 1) Airport extension
- 2) Heated shop building
- 3) Emergency vehicle & equipment

## NEWHALEN

### Short Term Priorities

- 1) Community playground
- 2) City office/ Inn renovation
- 3) Recycle center
- 4) Subsistence harvest building
- 5) Community greenhouse

### Long Term Priorities

- 1) Water & sewer improvements
- 2) Land planning/housing
- 3) Road extension completion
- 4) Newhalen dock
- 5) Assistant living home/apartments

## NONDALTON

### Short Term Priorities

- 1) Heavy equipment repairs
- 2) Road resurfacing
- 3) New vacuum truck
- 4) Bulk fuel storage
- 5) Cold storage for heavy equipment
- 6) New fire truck
- 7) Carnival

### Long Term Priorities

- 1) Sewer system improvements
- 2) Water storage tank
- 3) Rehab brown building
- 4) New multi-purpose building
- 5) Heated storage for heavy equipment
- 6) Community park improvements
- 7) Housing development
- 8) VPSO housing

## PEDRO BAY

### Short Term Priorities

- 1) New front-end loader
- 2) Purchase ADOT grader
- 3) Construct small boat dock

### Long Term Priorities

- 1) Construct Knutson hydro project
- 2) Construct landfill road & bridge
- 3) Airport improvements

## PERRYVILLE

### Short Term Priorities

- 1) Garbage Pick-up Vehicle
- 2) Landfill Incinerator

### Long Term Priorities

- 1) Public Dock Feasibility Design Study
- 2) Community Swimming Pool

## PILOT POINT

### Short Term Priorities

- 1) Dago Creek bulkhead repairs
- 2) Trained volunteer fire department
- 3) Solid waste sanitation vehicle

### Long Term Priorities

- 1) Sustainable energy
- 2) Airport extension
- 3) Equipment building

## PORT ALSWORTH

### Short Term Priorities

- 1) Waste management
- 2) Road/trail improvements
- 3) Building improvements

### Long Term Priorities

- 1) Solid Waste Ashfill/ Incinerator
- 2) Public Airport
- 3) Public water access (marina/deep water barge landing)

## PORT HEIDEN

### Short Term Priorities

- 1) Equipment
- 2) HUB center
- 3) Alternative energy
- 4) Paid fuel system (pay as you go)

### Long Term Priorities

- 1) Power distribution
- 2) Safe boat harbor
- 3) Safe drinking water

## UGASHIK

### Short Term Priorities

- 1) Bulk Fuel Tank Farm
- 2) Barge Landing
- 3) Upgrading Dock Energy System
- 4) Airport Lighting

### Long Term Priorities

- 1) Lengthen Airport Runway
- 2) Housing
- 3) Removal of "Winray"
- 4) Road construction to Wide Bay

### Funding Partners:

USDA: federal, US DOT-BUILD Program, USDA: AK Village Solid waste, EDA, FEMA, USDA Federal, Bonds, DEC-Loan Program, EPA, Rural Community Assistance Corporation, HUD: Community Development Block Grant

### Key Project Contact:

Name: Kate Conley  
Title: Borough Planner  
Organization: Lake and Peninsula Borough

## Project #14: Protection of Ekuk Beach commercial fishing set net site infrastructure.

**Project Description:** The Ekuk Beach is eroding, set net commercial fishermen are facing a natural infrastructure failure. It needs to be protected. First objective is to find engineering solutions.

### Outline of steps required for project to be completed:

- 1) Find funding to hire an Environmental Engineer to assess what solutions can be made.

**People/Organizations responsible for completing these steps:**  
Ekuk Village Council, Ekuk Fisheries, Commercial fishermen

#### Cost Estimates:

Costs: ~ \$70,000

Timeline: 8/30/2019

Funding Partners: Army Core of Engineers, Denali

Commission, Ekuk IGAP

#### Evaluation Measures:

Three options for beach protection. One chosen solution, and implementation.

#### Key Project Contact:

Name: Jennifer Robinette/ Sabrina Savo

Title: Ekuk Environmental Coordinator

Organization: Native Village of Ekuk

### Project #15: Provide Port Heiden with a salmon processing facility to ensure future economic stability for our community.

#### Project Description:

The Native Village of Port Heiden is in the process of constructing the Meshik Processing Facility in the community of Port Heiden to ensure future economic stability for our local people. Developing this salmon processing facility in our home will allow for residents to have jobs as well as assure future financial stability for our community.

#### Outline of steps required for project to be completed:

- 1) Remainder of construction on inside of building to be done.
- 2) Refrigeration and freezing units to be installed.
- 3) Equipment purchased for hauling, processing, and storing salmon.
- 4) Outside perimeter for fish waste disposal built.
- 5) Equipment barged in that has already been purchased.
- 6) Building inspections done to obtain permits needed to operate.

#### People/Organizations responsible for completing these steps:

The Native Village of Port Heiden (NVPH) and Meshik Seafoods, LLC (a company started under NVPH) is responsible for completing the above steps in order to assure that the Meshik Processing Facility will be accurately built for salmon processing.

#### Cost Estimates:

Costs: \$ 1,753,765,74 includes A&E costs, equipment, freight, personnel/labor, travel, and supplies.

Timeline: February 2019 – May 2019

Funding Partners: Funding up to this point has been acquired through the BBEDC Community Block Grant, EDA, and Bristol Bay Development Fund

#### Evaluation Measures:

- This project will ensure up to 10 jobs for locals to start with, including laborers, a foreman, as well as a business manager.
- As Meshik Seafoods grows as well as the need for our product we hope to have if not doubled, then tripled the amount of jobs we bring to our community.
- During the construction so far, we have created jobs for up to twenty people at one time.

#### Key Project Contact:

Name: Maxine Christensen

Title: Meshik Seafoods, LLC Manager

Organization: Native Village of Port Heiden

### Objective # 16: Support City of Aleknagik's Capital Improvement Projects:

Aleknagik's Vision Statement: Aleknagik is a healthy and family-oriented community that continues to develop by improving infrastructure, diversifying the economy, and training the workforce, while protecting social and cultural values, including a positive environment for families, opportunities for subsistence, and preservation of natural resources and a pristine environment. The community of Aleknagik is the only surrounding village connected to Dillingham, a major hub for the Bristol Bay Region. The community also acts a gateway to the nation's largest state park, the Wood-Tikchik State Park where a chain of lakes interconnect with two drainages, the Wood River and the Nushagak River which both lead back to Dillingham. Lake Aleknagik has some of the most beautiful scenery Alaska has to show and has world class hunting and fishing grounds. Aleknagik is your gateway to the outdoor experience travelers are looking for. With a road from the major hub that also serves as a tourist destination, a new bridge that connects the two sides of Aleknagik, seven lodges and two bed and breakfasts, the growing community is working to bring in more infrastructure to support the needs and safety of this community.

#### Outline of Steps to support FY-2020 Capital Improvement

##### Priorities for Aleknagik:

- 1) City Road Improvements
- 2) Acquire New Burning System for Landfill
- 3) Housing for Public Safety and Health Professional
- 4) Improve Water & Sewer Delivery (water design \$560,000)
- 5) Public Safety/Heavy Equipment Building (\$6,308,391.00)
- 6) Utility Expansion (design cost \$560,000)
- 7) Community Center (\$1,239,316.61)
- 8) Recreational Site Improvements (\$369,000)
- 9) Heavy Equipment Repair & Acquisition
- 10) Boat Storage (\$369,000)
- 11) Aleknagik Health Clinic Improvements (workgroup add amended 1/21/2020)

#### People/Organizations responsible for completing these steps:

City of Aleknagik, Alaska DOT, Granting Agencies, Construction Agencies, ANTHC Environmental, State of Alaska VSW.

#### Funding Partners:

USDA: Rural Development Loan Program, US DOT-BUILD Program, USDA: AK Village Solid waste, EDA, FEMA, USDA Federal, Bonds, DEC-Loan Program, EPA, Rural Community

Assistance Corporation, HUD: Community Development Block Grant, USDA: AK Rural Village Grant Program, USDA Community Facilities Programs, Alaska Energy Authority: Rural Power System Upgrade Program, Blue Cross Blue Shield of Alaska,

#### Key Project Contact:

Name: City of Aleknagik

### Project #17: A village-based Processing Plant located in Levelock, AK.

**Project Description:** The Processing Plant will create new in region jobs, new permit entrants into the fishery. Commercial fishing seasons will last longer for the local fisherman and various jobs which includes, processing, youth jobs, training events for certification in HACCP positions and more. This project is an ongoing project which started around 2010. Developments up to date and completed; in 2014 – 15, we purchased a barge and suited it with a crane, paint job and rebuilt one engine. We purchased (3) generators powering up to 1600KW to sufficiently run the plant which was in 2016-17. Those were purchased and shipped to Levelock. We also purchased a 25-person man camp. Then we got (3) water wells installed for the project in 2017. And in 2018 we had contractors installed a 10,000-gallon water waste septic system installed to fit the needs for a 80 - 100 person design facility and sufficient water for the processing plant needs. Our freezing capacity as of now is at, 7500lbs per day.

#### Outline of steps required for project to be completed:

Levelock Packing Co. is currently being developed into phases of operation for 2019 and beyond.

- 1) Phase (1). Establish the business with a hand line, demonstrating the freezing system we have on the ground. Approx. 1200 -1400 fish per day. Hand line with 5 to 8 fish per minute
- 2) Priorities for phase (1) are, Electrical infrastructure so the plant can operate.
- 3) Permitting in process. (under way)
- 4) Connex design and purchase. (Planning Stages)
- 5) Water treatment facility (Planning Stages)
- 6) Tender Operation & Set up (in Levelock)
- 7) Fish Waste Grinder to hook up. (in Levelock)

#### People/Organizations responsible for completing these steps:

Levelock Village Council, Alexander Tallekpalek will be the person overseeing the projects. Alex has over the course of some years used contractors and consultants to fit a fishing criterion and to be established in Levelock. Alex works with the Levelock Village Council and its Administrator to coordinate payments and assistance with the project's needs. We hired and still use the same contractors to move the project forward on annually funded CBG from BBEDC.

#### Cost Estimates: Levelock Packing Co.

Costs: To complete phase (1A) 2019 operation for a 7500lbs per day hand line. Estimation approx.at \$500,000.00 Phase (1B) to complete the (25) person man camp with foundation and hook up, Office building, more freezing capacity. Etc. Cost Estimate for completion is approx. \$3,000,000.00

Timeline: Phase (1A) this is to be finished by summer of 2019. Phase (1B) to be developed in late 2019 and early 2020. Followed by Phase (2) and until complete. A 30,000 fish per day processing plant.

Funding Partners: Working with Japanese buyers, US Buyers and Inner State Sales as well. Levelock Village Council utilizes the BBEDC – Community Block Grant of \$500,000 annually, Bristol Bay Development Fund.

#### Evaluation Measures: The FISH are coming! By the MILLIONS!

Levelock Packing Co. is creating a slow process to enhance durability and lifestyle in Bristol Bay. This will bring new jobs, new permit holders and education for the future.

#### Key Project Contact:

Name: Alexander Tallekpalek, email: tllkplk@yahoo.com  
Title: Tribal President for Levelock Village Council/ CEO – Levelock Packing Co.  
Organization: Levelock Village Council – 907-287-3030

### Project #18: Clarks Point Long Range Transportation Plan

**Project Description:** Top Priority road projects identified by the Clarks Point Village Council.

#### Outline of steps required for project to be completed:

- 1) Improve and/or redesign Hillcrest Drive (R1010 Sections 10 and 20) – This route is a main road in Clarks Point.
- 2) Improve road surface and drainage structures on Bayou Loop Road (R1009 Sections 10, 20, and 30) – This route is a main road in Clarks Point.
- 3) Improve road surface and drainage structures on Saguyak Avenue (R1007 Section 10) – This route is a main road in Clarks Point.

#### People/Organizations responsible for completing these steps:

Clarks Point Village Council, BBNA DOTID Program, Bristol Engineering Services Corporation, Federal Highways Administration, Saguyak

#### Cost Estimates:

Costs:

Timeline: 2018-2023

Funding Partners: To be determined.

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**Key Project Contact:**

Local Contact: Kristen George  
Title: Clarks Point Administrator  
Organization: Clarks Point Village Council

Name: Dan Breeden  
Title: BBNA Transportation and Infrastructure Director  
Organization: Bristol Bay Native Association

**Project #19: Ekuk Long Range Transportation Plan**

**Project Description:** Top Priority road projects identified by the Ekuk Village Council.

**Outline of steps required for project to be completed:**

- 1) Continue the planning, design, and construction of Route 1008 listed in the NTTFI.-- This is the connection between Ekuk and Clarks Point: 4.31 miles of road for an estimated cost of \$12,061,816
- 2) Continue to plan and update the Tribe's transportation needs, including continued participation in the TTP.
- 3) Continue to seek additional funding sources.
- 4) Continue maintenance activities on routes listed in the NTTFI.

**People/Organizations responsible for completing these steps:**

Ekuk Village Council, BBNA DOTID Program, Bristol Engineering Services Corporation, Federal Highways Administration

**Cost Estimates:**

Costs:  
Timeline: 2018-2023  
Funding Partners: To be determined.

**Key Project Contact:**

Local Contact: Chelsey Clark  
Title: Ekuk Administrator  
Organization: Ekuk Village Council  
Name: Dan Breeden  
Title: BBNA Transportation and Infrastructure Director  
Organization: Bristol Bay Native Association

**Project #20 Ekwok Village Council Long Range Transportation Plan**

**Project Description:** Top Priority road projects identified by the Ekwok Village Council.

**Outline of steps required for project to be completed:**

- 1) Widen, and resurface or regrade roads within Ekwok to improve safety and reduce potholes.
- 2) Install Stop signs at three-way intersections, and other needed locations to improve safety.
- 3) Plan, design, and construct road between Ekwok and New Stuyahok.
- 4) Work with the community to determine names for roads and trails.
- 5) Work to acquire new updated aerial imagery for maps.
- 6) Work with community members to obtain appropriate agreements on existing roads, for the addition to NTTFI.
- 7) Continue to plan and update the Tribe's transportation needs, including continued participation in the TTP. Continue to seek additional funding sources.
- 8) Continue maintenance activities on routes listed in the NTTFI.

**People/Organizations responsible for completing these steps:**

Ekwok Village Council, BBNA DOTID Program, Bristol Engineering Services Corporation, Federal Highways Administration

**Cost Estimates:**

Costs:  
Timeline: 2018-2023  
Funding Partners: To be determined.

**Key Project Contact:**

Local Contact: Richard King  
Title: Ekwok Administrator  
Organization: Ekwok Village Council  
Name: Dan Breeden  
Title: BBNA Transportation and Infrastructure Director  
Organization: Bristol Bay Native Association

**Project #21: Pilot Point Village Council Long Range Transportation Plan**

**Project Description:** Top Priority road projects identified by the Pilot Point Village Council.

**Outline of steps required for project to be completed:**

- 1) Constructing a road to the Ugashik River--5.36 miles of road for an estimated cost of \$16,651,382
- 2) Improve the dock being added to the inventory.
- 3) Continue to plan and update the Tribe's transportation needs, including continued participation in the TTP.
- 4) Continue to seek additional funding sources.

**People/Organizations responsible for completing these steps:**

Pilot Point Village Council, BBNA DOTID Program, Bristol Engineering Services Corporation, Federal Highways Administration

**Cost Estimates:**

Costs:  
Timeline: 2018-2023  
Funding Partners: To be determined.

**Key Project Contact:**

Local Contact: Suzanne Evanoff  
Title: Pilot Point Administrator  
Organization: Pilot Point Tribal Council  
Name: Dan Breeden  
Title: BBNA Transportation and Infrastructure Director  
Organization: Bristol Bay Native Association

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## Project #22: Portage Creek Village Council Long Range Transportation Plan

**Project Description:** Top Priority road projects identified by the Pilot Point Village Council. The PCVC and community members identified the priorities below in an effort to continue the growth of their community.

### Outline of steps required for project to be completed:

- 1) Improvement of Landfill Road (Route 1002), in conjunction with a new landfill.
- 2) Improvement of Qaugyaq Road (Sand Pit Road, Route 1013).
- 3) Improvement of Main Street (Route 1003), which provides access to the Nushagak River from the Airport.
- 4) Improvements to the waterfront facility, which include docking facilities to ease summer congestion and be able to be removed in the winter months, and an alternative boat launch site for residents and docking site for float plane traffic.
- 5) Mitigation measures to address erosion issues as well as posting "Low Wake" signs near the landing would also protect and improve the boat launch area.
- 6) Continue to plan and update the Tribe's transportation needs, including continued participation in the TTP. Continue to seek additional funding sources.

- 7) Continue maintenance activities on routes listed in the NTTFI.

### People/Organizations responsible for completing these steps:

Portage Creek Village Council, BBNA DOTID Program, Bristol Engineering Services Corporation, Federal Highways Administration

### Cost Estimates:

Costs:

Timeline: 2018-2023

Funding Partners: To be determined.

### Key Project Contact:

Local Contact: MaryAnn Johnson

Title: Portage Creek Administrator

Organization: Portage Creek Village Council

Name: Dan Breeden

Title: BBNA Transportation and Infrastructure Director

Organization: Bristol Bay Native Association

## Project #23: Twin Hills Village Council Long Range Transportation Plan

**Project Description:** Top Priority road projects identified by the Twin Hills Village Council.

### Outline of steps required for project to be completed:

- 1) Improve road surface and drainage structures on Aurora Street (R1006 Section 10) – This route is a main road in Twin Hills and provides access to significant buildings and resources.
- 2) Improve road surface, drainage structures, and any additional improvements needed on Beach Road (R1013 Section 10) – This route is a main road and provides access to the airport. This road will also provide access to the new landfill.
- 3) Construct and maintain Landfill Road (R1015 Section 10) – This route will provide access to the new landfill.
- 4) Improve road surface and drainage structures on the following routes below. – These routes are main roads in Twin Hills.
  - a) Northern Lights Avenue (R1002 Section 10)
  - b) Sharp Street (R1003 Section 10)
  - c) Salmon Street (R1004 Section 10)

- d) Twin Hills Road (R1005 Sections 10 and 20)

- e) Unnamed Road (R1007 Section 10)

- f) Church Road (R1008 Section 10)

### People/Organizations responsible for completing these steps:

Twin Hills Village Council, BBNA DOTID Program, Bristol Engineering Services Corporation, Federal Highways Administration

### Cost Estimates:

Costs:

Timeline: 2018-2023

Funding Partners: To be determined.

### Key Project Contact:

Local Contact: Beverly Cano

Title: Twin Hills Administrator

Organization: Twin Hills Village Council

Name: Dan Breeden

Title: BBNA Transportation and Infrastructure Director

Organization: Bristol Bay Native Association

## Project #24: Water & Sewer Improvements-Upgrades and Sewer Lagoon Expansion for the City of Newhalen

**Project Description:** Water & Sewer Improvements-Upgrades and Sewer Lagoon Expansion. To provide residents, visitors and the business community with the highest quality municipal services in an efficient, courteous manner and to enhance the quality of life through planning and visionary leadership. The current plant suffers from extreme deterioration which precludes safe and normal operation and maintenance on the piping and components. The structure has significant energy deficiencies which cause increased O&M costs and needs to be replaced.

### Outline of steps required for project to be completed:

- 1) Proposed facilities: Construct a new groundwater water treatment plant.
- 2) Proposed facilities: Expand the existing effluent sewer lagoon to handle raw sewage from the new community

lift station. Install a lined primary cell and expand the percolation cell. Renovate the existing sludge disposal cell into a new expanded percolation cell. Replace fencing. Abandon existing septic tanks in front of lift station. Convert lift station pumps to grinder pumps.

Install pipe connection from gravity sewer collection main directly to new lift station wet well.

- 3) The existing sewer lagoon is only approved as an effluent lagoon per AK DEC and is not capable of handling raw sewage. During the development of the recent sewage lift station project, it was anticipated that the lagoon would be able to handle raw sewage, thereby eliminating the two failing septic tanks and failing wet well/ dry well lift station. Upon review by the AK DEC, they required an expansion of the existing sewer lagoon in order to utilize the new sewage lift station for raw sewage rather than just effluent. The existing failing septic tanks therefore had to be left in place until the lagoon is expanded and permitted to accept raw sewage.
- 4) This project will modify the existing lagoon in order to receive raw sewage. Upgrades shall include the expansion of the primary cell and construction of a third polishing cell. Once completed, the upgraded

wastewater facility will be capable of meeting all AK DEC wastewater regulations.

**People/Organizations responsible for completing these steps:**  
City of Newhalen, Alaska Native Tribal Health Consortium (ANTHC)

**Cost Estimates:**

First Phase: \$ 4,699,608

Second Phase: \$ 2,308,189

Timeline: Two year project

Funding Partners: ANTHC

**Evaluation Measures:** Successful Audit

**Key Project Contact:**

Name: Gladys Askoak

Title: Administrator

Organization: City of Newhalen

### Project #25: Support the City of Chignik's Capital Improvement Priorities

The Chignik City Council annually updates the Capital Improvement Priority list in association with the Lake and Peninsula Borough for the purpose of making community improvements within the city. These updates ensure social and economic benefits associated with these types of projects will increase the safety, health, and environment of the community and its residents. The City of Chignik desires to maintain an accurate record of the City's current priorities for capital improvements by providing an annual update to the CIP list in association with the Lake and Peninsula Borough. The City Council of the City of Chignik has listed below the following Capital Improvements prioritized by level of importance and split between short and long term investments.

**Outline of steps required for project to be completed:**

#### LONG TERM PRIORITIES

- 1) Water Transmission Line
- 2) Hydro-Dam
- 3) Tsunami Shelter
- 4) Fuel lines/Lighting/Water Lines to City Dock
- 5) Harbor Expansion

#### SHORT TERM PRIORITIES

- 1) Sub-Building Completion
- 2) Runway Lighting
- 3) Cultural Center/Community Building
- 4) New Heavy Equipment
- 5) Training for Heavy Equipment

**People/Organizations responsible for completing these steps:**

City of Chignik, Alaska Native Tribal Health Consortium (ANTHC)

**Cost Estimates:**

Costs:

Timeline:

Funding Partners:

**Evaluation Measures:**

**Key Project Contact:**

Name: Edward Denisevich

Title: City Clerk

Organization: The City of Chignik

### Project #26: Support the City of Nondalton Capital Improvement Priorities

The Nondalton City Council will update the Capital Improvements Priority list in association with the Lake and Peninsula Borough for the purposes of making community improvements in the most expeditious manner possible for the health and safety of the community and its residents. These priorities ensure the social and economic benefits associated with these types of projects will improve the health, safety, and environment of the community for its residents. The City of Nondalton desires to maintain an accurate record for the communities current priorities for Capital Improvements by providing an annual update to the CIP List in association with the Lake and Peninsula Borough for the ongoing efforts by the City of Nondalton and the Lake and Peninsula Borough to address those improvements in a timely manner, and that the City of Nondalton has listed below the following Capital Improvements for Calendar Year of 2020, and will be updated as projects are developed and/or new concerns/projects are brought to the City Council;

**Outline of steps required for project to be completed:**

#### SHORT TERM PRIORITY PROJECT

- 1) Heavy Equipment Repairs
- 2) Road Resurfacing
- 3) New Vacuum Truck

- 4) Bulk Fuel Storage
- 5) Cold Storage for Heavy Equipment
- 6) New Fire Truck
- 7) Carnival

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## LONG TERM PRIORITY PROJECT LIST

- 1) Sewer System Improvements
- 2) Water Storage Tank
- 3) Rehab Brown Building
- 4) New Multi Use Facility
- 5) Heated Storage for Heavy Equipment
- 6) Community Park Improvements
- 7) Housing Development
- 8) VPSO Housing

### People/Organizations responsible for completing these steps:

City of Nondalton

### Project #27: Support the City of New Stuyahok' s purchase of Heavy Equipment

The city of new Stuyahok is in need of a dozer and excavator to maintain the roads and landfill.

#### Project Description:

The city of New Stuyahok is looking for a type tractor, d5k2 track with traction control, power pitch, and improve blade control which are more productive, precise and efficient to maintain. This will be used to maintain the gravel roads within the community year-round, being especially useful during the winters for snow removal from roads and grade when the roads are icy. In addition it will help in the landfill where operators can maintain the landfill. The city owns a metal building where we will store and maintain the equipment.

The city council is looking for a 2nd heavy equipment machinery similar to a 311f l-rr hydraulic excavator, with a smaller radius to maneuver in small space. This will help us dig out new cells to aid in landfill expansion and other odd jobs within the community of New Stuyahok.

#### Outline of steps required for project to be completed:

- 1) Contact NC Machinery for quotes
- 2) Order equipment
- 3) Equipment shipped
- 4) Equipment received
- 5) Equipment used to maintain the community

### People/Organizations responsible for completing these steps:

The City of New Stuyahok

#### Cost Estimates:

Total Costs: \$567,155

Dozer costs: \$239,690

Excavator Costs: \$327,465

#### Cost Estimates:

Costs:

Timeline:

Funding Partners:

#### Evaluation Measures:

#### Key Project Contact:

Name: Carrie Harried

Title: Administrator

Organization: The City of Nondalton

Timeline: 1 year

Funding Partners:

#### Evaluation Measures:

-Successful order and receiving of equipment

-operators are able to spend time on other takes due to efficiencies in equipment

-roads are maintained and travelers are able to drive safely

-the landfill is clean and safer for residents to access

#### Key Project Contact:

Name: Jerry Walcott

Title: Administrator

Organization: City of New Stuyahok

## Energy Strategic Direction: Energy Projects



### Project #1: Nuyakuk Hydroelectric Project\*\*

Provide long term, affordable, renewable power and broadband access to Bristol Bay communities through the development of a hydroelectric power generation facility at Nuyakuk Falls with electric and fiber optic transport.

#### Project Description:

This proposed run of river project will generate year-round and produce up to 12 MWs of power, depending on the season and associated river flow. Power as well as optical fiber would be provided to the communities of Dillingham, Aleknagik, Koliganek, New Stuyahok, Ekwok and Levelock.

#### Outline of steps required for project to be completed:

- 1) December 2019 to August-November 2020: Develop a study plan using the Federal Energy Regulatory Commissions' (FERC) Integrated Licensing Process (ILP)
- 2) 2021: First study season
- 3) 2022: Second study season
- 4) July 2023: File License Application
- 5) 2024/2025: Acquire needed permits, finalize system design, complete funding
- 6) 2025/2026: Project build

#### People/Organizations responsible for completing these steps:

Nushagak Electric and Telephone Cooperative (NETC) will be responsible for completing the studies. NETC will work with municipalities and tribal organizations in Dillingham, Aleknagik, Koliganek, New Stuyahok, Ekwok and Levelock; Bristol Bay Native Association.

#### Cost Estimates:

Costs: Estimated study costs \$6M, overall estimated project cost \$120-150M

Timeline: Through 2026

Funding Partners: TBD

#### Evaluation Measures:

- NETC's initial goal is to complete the required studies for site evaluation, including continued regional consultations as study information is developed.

#### Key Project Contact:

Name: Robert Himschoot, CEO/GM

And: Bob Armstrong, Electric Operations Manager

Organization: Nushagak Electric & Telephone Cooperative

11: NUYAKUK FALLS



### Project #2: Perform sustainable energy applied research to benefit Bristol Bay.

Research sustainable energy technologies in real life situations occurring in rural Bristol Bay Alaska.

#### Project Description:

Perform applied research of sustainable energy technologies in the context of rural Alaska. These technologies may include, for example, air source heat pumps, ventilation systems, lighting, wall systems, renewable energy systems, and others.

#### Outline of steps required for project to be completed:

- 1) Create strong partnerships with the Cold Climate Housing Research Center (CCHRC) and Alaska Center for Energy and Power (ACEP)
- 2) Utilize the partnerships with CCHRC and ACEP to perform applied energy research benefitting Bristol Bay

People/Organizations responsible for completing these steps:  
UAF-Bristol Bay Campus in partnership with CCHRC and ACEP

#### Evaluation Measures:

- Number and type of technologies researched.
- Potential savings in energy and costs thanks to these technologies.

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**Key Project Contact:**

Name: Tom Marsik

Title: Associate Professor of Sustainable Energy

Organization: UAF-Bristol Bay Campus

**Project #3: Deliver sustainable energy education throughout Bristol Bay.**

Provide Bristol Bay businesses and residents with energy literacy education.

**Project Description:**

Create education opportunities in Bristol Bay to promote energy literacy in preparing residents and business to make fiscally responsible energy related decisions.

**Outline of steps required for project to be completed:**

- 1) Host workshops and classes.
- 2) Show educational movies to communities.
- 3) Conduct energy audits.

**People/Organizations responsible for completing these steps:**

UAF-Bristol Bay Campus in partnership with regions communities and businesses.

**Evaluation Measures:**

- Number participants involved in classes offered.
- Dollars retained to residents and businesses in the community by making changes to energy usage.

**Key Project Contact:**

Name: Tom Marsik

Title: Associate Professor of Sustainable Energy

Organization: UAF-Bristol Bay Campus

**Project #4: Provide Biomass Heating as alternative energy for BBNA to reduce Hazardous Fuels utilization.****Renewable Energy Utilization /Biomass Heating****Project Description:**

Apply for and receive feasibility study funding to install wood boilers as heating source in Bristol Bay. Project will offset heating fuel costs and dependence on fossil fuels. Use existing the Forestry Program, Forest Inventory and staff to supply Cordwood and put people to work. Add a source of revenue and open up markets for commercial wood sales too trust land owners. Use the Biomass and by product of Hazardous Fuels Projects in Fire Breaks and Thinning on trust lands. Heat Building with renewable products.

**Outline of steps required for project to be completed:**

- 1) Complete feasibility Study from beginning to end for Cost , engineering , product, purchase , installation, supply and maintenance
- 2) Apply for Wood Innovations Application Grant from the Us Forest Service. Application would detail Project Beginning to end.in the feasibility
- 3) Utilize BBNA Forestry Program and Forest Inventory to Identify the Cordwood supply for the life of the Boiler
- 4) Determine Size of Boiler needed from BBNA Energy Audit Report, secure purchase and install Commercial Wood boiler.
- 5) Supply Cordwood thru the existing Forestry Projects and small wood lot management plans to benefit the trust landowners.

**People/Organizations responsible for completing these steps:**

BBNA Forestry Program: Frank Woods, Macaelin Flensburg, Karen Petersen; Biomass Coordinator Southeast Conference Jenni, BIA Forestry: Ed Morgan, BBNA Land Management Services, BBNA Land Management Services Department

Director Tom Hoeseth, Jennifer Gardiner, Ryan Miller; Robert Chambers Flensburg

**Cost Estimates:**

Costs: \$250,000

Timeline: 2020-2021

Funding Partners: BIA Forest Development /, BBNA Forestry Program, US Forestry Service, BIA Tribal Energy, Forestry Service Wood Innovations Application FY 2019, and Alaska Energy Authority Fund Application, Alaska Wood Energy Program

**Evaluation Measures:**

- BBNA reduces fossil fuel consumption by \$15,000 a year for just the Administration Building Displaced 3000 gallons of diesel
- 2 people are employed

**Key Project Contact:**

Name: Frank Woods

Title: Forestry Program Manager

Organization: Bristol Bay Native Association

**Objective #5: Provide commercial cord wood and small timber sales in Bristol Bay.****Project Description:**

Provide alternate heating fuel through timber sales in the Bristol Bay Region while creating jobs through harvesting to manage forestry, reduce forest fires potential and reduce dependence on fossil fuels.

**Outline of steps required for project to be completed:**

- 1) Apply for Portable Milling Infrastructure Proposal
- 2) Purchase Equipment and gravel Pad to operate

- 3) Hire 2 employees use BBNA Forestry Techs to supply wood Train 4 employees to Operate lumber sales cordwood is a by product

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#### People/Organizations responsible for completing these steps:

BBNA Forestry Program: Frank Woods, Macaelin Flensburg,  
BIA Forestry: Ed Morgan, BBNA Land Management Services,  
BBNA Land Management Services Department Director Tom  
Hoseth

#### Cost Estimates:

Cost: \$150,000

Timeline: 2020-2021

Funding Partners: BIA Forestry, BBNA Forestry Program, US  
Forestry Service, BIA Tribal Energy for Timber Harvest Initiative

#### Project #6: Reinforce and strengthen Naknek Electric Association's existing power plant.

**Project Description:** Infrastructure is needed to provide reliable, high quality power to the Bristol Bay Salmon Industry to continue our economic success for our residents and state.

#### Key Project Contact:

Name: Dianne King

Title: General Manager

Organization: Naknek Electric Association, Inc.

#### Project #7: To bring high speed Internet to the Bristol Bay Borough.

#### Project Description:

Infrastructure is needed to bring high speed, reliable Internet to the Bristol Bay Borough. Many entities, individuals and businesses in the Bristol Bay Borough need high speed internet to be able to function in a business economy. Incorporating broadband is known to increase a regions Gross Domestic Production (GDP) by 10%.

#### Outline of steps required for project to be completed:

- 1) Bristol Bay Chamber of Commerce is in discussions with several groups in the Bristol Bay Borough and others that could provide high speed and functional internet services.
- 2) Research needed on options of service providers to bring high-speed, reliable internet to the Bristol Bay Borough.
- 3) Research process of the Aleutians communities working with SWAMC and pattern Bristol Bay's effort after their projects.
- 4) Potential to apply for planning grant then project grant.

#### People/Organizations responsible for completing these steps

Bristol Bay Chamber of Commerce, individuals and entities in the Bristol Bay Borough with the same goal in mind – to provide internet service that is functional and adequate to do business especially with the influx of people in the summertime. Processing Companies are also interested in this project.

#### Project #8: Support the Bristol Bay communities and Tribal entities with weatherization and energy efficiency through local hire.\*\*

#### Project Description:

Bristol Bay residents and businesses need assistance to increase dollars retained to region and reduce dependence on fossil fuels through home heating and electricity efficiencies. Bristol Bay Native Association (BBNA) wants to create one project manager, and various contractors to perform energy audits and upgrade to increase energy efficiencies in homes and businesses.

#### Outline of steps required for project to be completed:

- 1) Apply for funding.
- 2) Hold a Weatherization/ Energy Audit Class.
- 3) Recruit and hire for the positions from Class attendees.

Request 2019, Portable Milling Infrastructure Proposal BIA  
Forestry Development

#### Evaluation Measures:

- Wood sales at \$10,000 FY 2020 year
- 2 people are employed in program
- 50 % of fuel reduction

#### Key Project Contact:

Name: Frank Woods

Title: Forestry Program Manager

Organization: Bristol Bay Native Association

#### Cost Estimates:

Costs: To Be Determined

Timeline: 5-Year Project

Funding Partners: Federal, state, local or corporate grants  
and/or appropriations.

#### Evaluation Measures:

- Successful instillation of broadband to the Bristol Bay Borough.
- Increase in Bristol Bay Boroughs GDP.

#### Key Project Contact:

Name: Frank Schroeder

Title: President

Organization: Bristol Bay Borough Chamber of Commerce

4) Develop program and further training for Auditors.

5) Conduct outreach to determine candidates.

6) Send Auditors into the region to determine where homes and businesses can increase efficiencies.

7) Assist peoples and entities with completing energy efficiency upgrades.

**People/Organizations responsible for completing these steps:**

University of Alaska Fairbanks: Bristol Bay Campus, Southwest Alaska Vocational and Education Center, BBNA, BBNA's 31 Tribes, Bristol Bay's Municipalities, local utility companies,

**Cost Estimates:**

Costs: Salary, Benefits, Travel, Commodities; estimated total \$251,000/year

Timeline: October 1, 2019 – September 30, 2022

Funding Partners: USDA, HUD, Department of Energy, Alaska Energy Authority, ANTHC



**Project #9: Togiak Hydroelectric\*\***

**Project Description:** Reduce the Community of Togiak's dependency on petroleum oil for electricity through the development of hydroelectric power generation.

**Outline of steps required for project to be completed:**

A reconnaissance study is needed to update and record the flow of the Kurtluk River. Our purpose for the study was to identify what measures are needed to provide a constant water supply. The original plan was to secure a reservoir site.

- 1) -Phase I of the project will be a Reconnaissance Study.  
This study will include:
  - a) Gathering existing data such as mapping, hydrologic data, geologic reports, and environmental data.
  - b) Perform a preliminary environmental regulatory review – USF&W and ADF&G, Fisheries, etc.
  - c) Survey for land status
  - d) Review of existing geotechnical data
  - e) Update the previous study which was completed in 1982.
  - f) Prepare a letter report documenting all existing pertinent information.
- 2) -Phase II of the project includes conducting a detailed feasibility study using current methods and costs and gathering public input. The feasibility study will include:
  - a) Site Visit
  - b) Conceptual layout
  - c) Survey and Mapping
  - d) Preliminary Geotechnical Investigation
  - e) Hydrology – Stream flow measurements are required to make a good assessment of project viability.
  - f) Initial Environmental Assessment
  - g) Regulatory Assessment – FERC Licensing and Permits

**Evaluation Measures:**

- One full time position is filled for promoting energy related upgrades.
- A majority of the contractors are hired to work in their communities.
- Five to ten entities are able to increase energy efficiencies per year.

**Key Project Contact:**

Name: Kristina Andrew

Title: Economic Development Program Manager

Organization: Bristol Bay Native Association

- h) Energy Analysis – Production and Demand
- i) Cost Estimates and Economic Evaluation
- j) Development Schedule
- k) Finalize Feasibility Study Report

- 3) Secure permits
- 4) Hire contractor to fulfill project
- 5) Begin construction
- 6) Connect Hydro project into current grid

**People/Organizations responsible for completing these steps:**

Our regional corporation BBNC, University of Alaska-Geological, USF&W, ADF&G, and U.S. Geological survey. Togiak Village Corporation, City of Togiak, Togiak School, Traditional Council of Togiak, local private businesses, Twin Hills Village and Togiak Fish Processing Plant

**Cost Estimates:**

Costs: Phase I – Est. \$75,000, Phase II – Est. \$350,000

Timeline: 10 years from 2020

Potential Funding Partners: EDA, City of Togiak, Department of Energy, State of Alaska

**Evaluation Measures:**

-15% Reduction for community oil consumption for electricity by 2030. This will be measurable by reviewing the past records of fuel usage at the AVEC power plant and comparing records before and after project implementation.

**Key Project Contact:**

Name: Peter Lockuk Sr.

Title: Council Member

Organization: Traditional Council of Togiak

## Tourism Strategic Direction:



## Tourism Projects

**Project #1: Develop a comprehensive list of tourist attractions in Bristol Bay for the purpose of creating a regional marketing campaign\*\*.**

It is no secret Bristol Bay is one of the most pristine and beautiful places on the planet. The secret of Bristol Bay lies in its remote locations and hard to access destinations. Bristol Bay is disconnected from the road system making travel into the area an intimidating task. Currently, there are many lodges and camps in region that serve as a getaway but there is no way to consider all destination options in one spot. Bristol Bay needs a one-stop-shop, user friendly resource that can consolidate and connect all the wonderful tourist opportunities Bristol Bay has to offer.

### Project Description:

Tourist destinations around the world spend millions of dollars trying to attract outside revenue to their regions. In order to do so they have a comprehensive list of services provided in their areas. Bristol Bay has just as many opportunities to increase tourism based revenue but has not

established a system to properly inventory and assess what is particularly special about the region. Taking the time to develop an inventory can streamline marketing efforts to ensure Bristol Bay captures the most revenue from potential visitors.

### Outline of steps required for project to be completed:

- 1) Identify partners in Bristol Bay tourist attractions.
- 2) Establish a list of tour based attractions.
- 3) Identify Bristol Bay's niche(s) in tourism.
- 4) Create and update a Bristol Bay regional visitor attraction data base.
- 5) Identify funding for marketing Bristol Bay as a tourist destination through grant monies and solicitation of add space from area partners and businesses.
- 6) Develop a marketing strategy based on niche markets to bring customers to the region.
- 7) Attend events that develop, promote, and enhance tourism opportunities to Bristol Bay.

### Key Project Contact:

Name: Kristina D. Andrew

### People/Organizations responsible for completing these steps:

Bristol Bay Borough, Dillingham Census Area communities, Lake and Peninsula Borough, regional airports and air carriers, Bristol Bay's Tribes and Corporations, regional lodging facilities, gift shops, information centers, Bristol Bay Alaska Tourism, Alaska Travel Industry Association, Alaska Public Lands Information Center, Public Land Agencies, Convention and Visitors Boroughs, Chambers of Commerce, Alaska Wilderness Recreation & Tourism Association

### Evaluation Measures:

- 10 jobs are created.
- Regional tour based revenue increases by \$250,000.

Title: Economic Development Coordinator

Organization: Bristol Bay Native Association

## Project #2: Grow opportunities to sell local art to visitors. \*\*

Southwest Alaska has a rich and vibrant Alaska Native culture that traces back over 10,000 years. As clothing switched from animal skin to cotton and the local population was introduced to beads, people began to create. The skill of minimizing waste from harvest maintained as a strong cultural aspect morphed into cultural art. Subsistence by-products are now being used to create beautiful works of art. The visitors industry in Alaska incorporates many forms of traditional and cultural art into its operations. The art created by the Bristol Bay people is an untapped resource outside the community. As tourism to the region increases so do the opportunities to market locally made art.

### Project Description:

The Bristol Bay region is home to a fabulous group of artist. Due to the remoteness and internet challenges of many of the communities, it is difficult to find opportunities for these artists to consistently sell their work. Visitors are the perfect potential customers, who often want to take something unique and special back to their homes. The challenges lie in connecting the artist to the consumers. A region wide effort is needed to get the art products into the hands of visitors. By creating a one stop shop of artist and vendors to move the products from storage to income.

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#### Outline of steps required for project to be completed:

- 1) Establish an ongoing list thru an outreach survey of local artists committed to creating art for distribution in gift shops.
- 2) Establish a list of vendors/buyers.
- 3) Create an inventory tracking system.
- 4) Establish points of contact.
- 5) Assist local artist in obtaining *Silverhand* and *Made in Alaska* certifications.
- 6) Locate funding for startups.
- 7) Develop a business plan to generate revenue for a self-sustained system.

#### People/Organizations responsible for completing these steps:

Bristol Bay Native Association, Bristol Bay Borough, Dillingham Census Area communities, Lake and Peninsula Borough, regional airports and air carriers, Bristol Bay's Tribes and Corporations, regional lodging facilities, gift shops,

information centers, Bristol Bay Alaska Tourism, face book marketplace, AFN, Etsy

#### Evaluation Measures:

- Number of requests for merchandise.
- Quality expectations
- Amount of merchandise sold (dollars and items).
- Number of outlets selling local made art.
- Increased local interest to sell art in tour based markets.
- One to two full time jobs created.
- 20-40 part time jobs created/retained.

#### Funding Partners:

USDA: RBDG, Bristol Bay Area Health Corporation

#### Key Project Contact:

Name: MJ Bennett

Title: Program Development Department

Organization: Bristol Bay Native Association

### Project #3: The Bristol Bay Historical Society is dedicated to preserving and sharing the history, culture, and values of Bristol Bay.

#### Project Description: Bristol Bay Historical Society Museum Expansion Wooden Boat Display

The Bristol Bay Historical Society museum is located in the historic A.R. Davey Mercantile Building in Naknek, AK. The museum encourages cultural exchange by fostering collaboration among elders, youth, artists, scholars and tradesmen to develop exhibits and education programs that demonstrate the diversity, traditions, resources and industries of the region. Diamond "O" warehouse and wooden boat collection preservation project. This project will entail moving the Diamond "O" warehouse building to the museum location in Naknek, Alaska for use as a display space for the wooden boat collection. The Museum has a complete collection of wooden boats from the original Bristol Bay Sailboat to the gas powered fishing boats. This project will enhance the current mission of preserving and sharing Bristol Bay's maritime history.

#### Outline of steps required for project to be completed:

- 1) Purchase of warehouse building (under contract negotiations)
- 2) Dismantle the kit designed warehouse for storage on a Barge for the move to Naknek
- 3) Arrangements have been made for transport by barge to Naknek
- 4) Assemble building on the museum property (site planning and design underway)
- 5) Move the wooden boat collection out of storage and into the warehouse gallery space

#### People/Organizations responsible for completing these steps:

Bristol Bay Historical Society PO Box 250 Naknek, AK 99633

The museum has a five member Board of Directors;

Fred Anderson; President

David Lax; Vice President

George Tibbetts Jr.; Secretary

Becky Savo; Treasurer

Caleb Kresl; Board Member

#### Cost Estimates:

Costs: \$480,000

Timeline: Spring 2019 to Fall 2020

Funding Partners: Museums Alaska, Rasmussen Foundation, Wells Fargo, Humanities Forum, BBNC, Private foundations, National Park Service, Tribal Entities

#### Evaluation Measures:

The BB Historical Society/ Museum has continued growth in membership, donation support and visitor numbers. From 2012 to current the museum has developed a strong 501C3 non-profit organization that is supported by donations from regional organizations, Seafood Processors and Historical Society members. Evaluation is done by annual stats on visitors, tracking donations and sponsorship. Also continued growth and participation in community events "Fishtival" have proven the growth strategy is working. The museum has developed into keeping regular hours of operation May - October and employing two people. Each year developing a new exhibit/gallery space in our goal of continued expansion. Notable donors are too many to mention but larger sponsors include the Bristol Bay Borough, and Naknek Native Village Council. We have had ongoing support from all of the Seafood Processing Industry and local contractors/businesses.

#### Key Project Contact:

Name: Fred Anderson

Title: President

Organization: Bristol Bay Historical Society

## Project #4: Increase Tourism in the Bristol Bay Borough through Development of Visitor Infrastructure in King Salmon, Alaska.

### Project Description:

King Salmon, Alaska has all the potential for a robust visitor economy. To complement its public lands, rich fishing and cultural heritage. The community has an excellent airport, superb dining and lodging options. However, its infrastructure needs to be updated and expanded. An infrastructure investment could create opportunities for the community of King Salmon and surrounding communities to take advantage of Southwest Alaska's growing tourism industry, attract and encourage visitors to fully explore the community of King Salmon and its surrounding public lands.

### Outline of steps required for project to be completed:

- 1) Bring national, regional and local partners together to continue discussions of working together on a Visitor Infrastructure development project in King Salmon
- 2) Examine potential use of a new structure for an interagency Visitor's Center in King Salmon
- 3) Examine potential for a combined inter-agency/local stakeholders' campus, which would be associated with an interpretive river walk along the Naknek River adjacent to the lands identified for development.
- 4) Define opportunities for local small businesses to provide services to visitors – local tours – training for tour guides, bird watching, cultural tours, etc.
- 5) Secure funding through appropriations and grants for project including private foundations

### People/Organizations responsible for completing these steps:

The Bristol Bay Borough Chamber of Commerce is in discussions with a core group of entities made up of local,

## Project #5: Provide Part time/seasonal funding for one position at the Sam K. Fox Museum in Dillingham.

### Project Description:

The City of Dillingham is the owner and operator of the Sam K. Fox Museum providing maintenance and space for the museum shared with the Public Library. Currently work at the museum is totally voluntary and often Library staff oversees museum visitors and sales for museum products. Funding is needed for museum directed employment to maintain the museum. This would be beneficial to provide for a quality experience to local residents and visitors to the museum. Preservation of local history would be advanced.

### Outline of steps required for project to be completed:

Hire one employee to perform Museum duties including;

- 1) Catalog artifacts/ museum pieces/ inventory with Past Perfect Software
- 2) Organize and upgrade museum storage
- 3) Maintain the museum store
- 4) Museum docent

### People/Organizations responsible for completing these steps:

The City of Dillingham

### Cost Estimates:

Costs: ~\$14,000

Timeline: three and a half months per year

state and federal agencies. Organizations and local governments are working with the core group to expand partnerships with an interest in the project. There has been increased interest from others to become involved in the project.

### Cost Estimates:

Costs: To Be Determined once more research is done on size of visitor center/campus building and cost estimate of River Walkway

Timeline: 5 year timeline – 2019 -2024

Funding Partners: Federal grants and/or appropriations, private foundations

### Evaluation Measures:

- 25% increase in the number of visitors to the surrounding area over a five year period.

### Key Project Contact:

Name: Frank Schroeder

Title: President

Organization: Bristol Bay Borough Chamber of Commerce



12: QUILLED MOOSE AND SALMON

Funding Partners: City of Dillingham, Samuel K. Fox Museum, Museum Association, Rasmussen Foundation, private foundations.

### Evaluation Measures:

- All museum holdings, artifacts, and inventory are cataloged and properly stored
- Museum store is stocked with local artists and crafts for museum guest to purchase
- Museum sees increase in visitors and sales of store merchandise

### Key Project Contact:

Name: Ted Krieg

Title: Volunteer/ Sam K. Fox Museum Board, Chair

Organization: Sam K. Fox Museum

## Other Economic Strategies:



### Project #1: Develop increased participation in subsistence activities.

Bristol Bay is remote and home to the world's largest wild sockeye salmon run. The ecosystem that support this prolific salmon system also supports a variety of flora and fauna. Bristol Bay's regional economy has been based on subsistence activities up until the turn of the twentieth century.

#### Project Description:

Promote the fiscal and health benefits of subsistence to reduce dependence on outside food sources and increase community resiliency. With an abundance of wild food sources and remote to access destination, subsistence activity is a great way to bring food home while keeping dollars in hand.

#### Outline of steps required for project to be completed:

- 1) Promote subsistence activities through the workplace.
- 2) Increased leave w/o pay for full time staff to participate in subsistence activity.
- 3) Family leave for family subsistence activities.
- \* Promote inter-generational education of subsistence methods and traditions.

#### Evaluation Measures:

- Number/pounds of harvest/process/production.
- Number of days per household per year in form of a subsistence calendar or other measurement.
- Increased subsistence licenses obtained.
- Decreased importation of outside foods.

### Project #2: Hunting, Fishing and Gathering Task Force.

**Project Description:** Establish a task force to direct advocacy efforts in protecting Alaska Native Hunting & Fishing rights. The traditional hunting and fishing practices taught by our ancestors in order to provide for social, cultural, spiritual and economic wellbeing and the continued survival of our people and communities for our way of life.

#### Outline of steps required for project to be completed:

- 1) Increase Alaska Native influence in our regulatory systems
- 2) Enhance Alaska Native Management of our resources
- 3) Impact Climate Change, research and International dialogue
- 4) Provide Hunting and Fishing Regulation Workshops before regulatory meetings
- 5) Team up with other ANOs for a stronger force for Alaska Natives

#### People/Organizations responsible for completing these steps:

BBNA, Office of Subsistence for a resource in data.

#### Cost Estimates:

Timeline: 3 years



13: CANNED KING SALMON: A REGIONAL FAVORITE

#### People/Organizations responsible for completing these steps:

Bristol Bay Native Association, Dillingham City School District, Bristol Bay Borough School District, Southwest Region School District, Lake and Peninsula School District, Bristol Bay Native Corporation, Alaska Department of Fish and Game

- Increased retention of household income.

#### Key Project Contact:

Name: Natural Resources Department  
Title: Cody Larson  
Organization: Bristol Bay Native Association

Funding Partners: EPA, IGAP

#### Evaluation Measures:

- 10-15 Bristol Bay residents were able to attend the training.
- 30 % of the Evaluations of participants indicate participation and education made an impact on their wellbeing to advocate for our way of life.

#### Key Project Contact:

Name: Gayla Hoseth  
Title: Director of Natural Resources  
Organization: BBNA

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### Project #3: Developing Tribal Environmental Codes within Bristol Bay Region.

**Project Description:** As sovereign nations, federally recognized tribes can develop their own laws (also known as codes, statutes, or ordinances) that guide how their tribal members and/or outside influences (contractors, non-tribal members, and other organizations) behave on their lands/ in their community. Developing effective tribal laws is an essential part of protecting human health and the environment so that future generations can be healthy and enjoy the environments natural resources. The Brownfield Program would like to host/conduct a regional training to teach and develop environmental codes with tribes so that they can protect their village environments and population health.

#### Outline of steps required for project to be completed:

- 1) Start conversations and develop potential partnerships with organizations that have the capacity to teach and assist in developing environmental codes.
- 2) Gather support from the region.
- 3) Find and secure funding.
- 4) Host regional training for Bristol Bay Villages.

#### People/Organizations responsible for completing these steps:

31 Bristol Bay Tribal Councils, BBNA

#### Cost Estimates:

Timeline: 1-2 years.

Funding Partners: EPA, IGAP

#### Evaluation Measures:

Successful environmental tribal codes implemented and enforced with-in villages.

#### Key Project Contact:

Name: CaSandra Johnson

Title: Brownfield Coordinator

Organization: BBNA

### Project #4: Hunter Orientation Training for Bristol Bay Marine Mammal Hunters.

Increase awareness of marine mammal hunting techniques and uses to the younger generation.

#### Project Description:

This project will increase an awareness of traditional marine mammal hunting practices to transfer knowledge to younger audience from experienced hunters and elders. There is a need to pass on traditional knowledge of marine mammal hunting to interested young students, hunters from experienced marine mammal hunters, and elders. In order to pass on our Native way of life traditions, and to continue our cultural preservation of traditional hunting practices, we need an orientation training for interested students, young marine mammal hunters to learn from elders, and experienced hunters in Bristol Bay.

#### Outline of steps required for project to be completed:

##### SPECIFIC WORK ACTIVITIES:

- 1) Traditional knowledge from experienced marine mammal hunters and elders will be done on-site during marine mammal hunting season, either spring or fall.
- 2) Traditional knowledge transfer from elders - demonstrating, traditional hunting practices, consisting of the following components:
- 3) Hunter safety
- 4) Hunter orientation-will consist of hunting techniques or methods-hunting equipment, traditional knowledge of proper way to catch the animal; proper methods after animal is caught (harvested); proper butchering techniques, learn about animal anatomy; learn traditional ecological knowledge (TEK) on sharing, distribution of harvest in community. Health as food-include nutritional food value of marine mammals.

#### PROPOSED PARTNERS-People/Organizations responsible for completing these steps:

BBNA Marine Mammal Program Staff; USFWS Marine Mammals Management Division with the Qayassiq Walrus Commission; University of Alaska-Fairbanks-Bristol Bay Campus; Bristol Bay Area Health Corporation-Emergency Medical Department-Hunter & Safety Division;

#### Cost Estimates:

Costs:

Timeline:

Month 1-Invite tribal councils, and interested students, young hunters to participate in marine mammal hunter orientation training.

Month 2-Logistics Tasks:

- Hire experienced hunt captain to assist in conducting hunter orientation training.

- Hire elders knowledgeable in traditional hunting practices, methods, processing and related traditional knowledge.

Month 3-Conduct hunter orientation training.

- Participate in marine mammal hunting during spring or early fall.

- Process marine mammals

Month 4-Provide project results to participating tribal councils, and report to Bristol Bay region.

#### Funding Partners:

SEDS Grant upon awarded to BBNA; USFWS for Pacific walrus hunter orientation training; University of Alaska-Fairbanks: Bristol Bay Campus; Bristol Bay Economic Development Corporation; Bristol Bay Area Health Corporation-EMS Department-Health & Safety Division, Fish and Wildlife Foundation, Marine Mammal Commission

#### Evaluation Measures:

Sharing and passing on traditional marine mammal hunting methods, practices to the next generation.

- Our beginning target group will be up to 25 interested young students, and young hunters with plan to expand this project to other Bristol Bay sub-regional marine mammal hunting communities in future grant project.

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- Increasing awareness of the younger Alaska Native people on traditional marine mammal hunting.

**Key Project Contact:**

Name: Helen M. Aderman

Title: Marine Mammal Program Manager

Organization: Bristol Bay Native Association

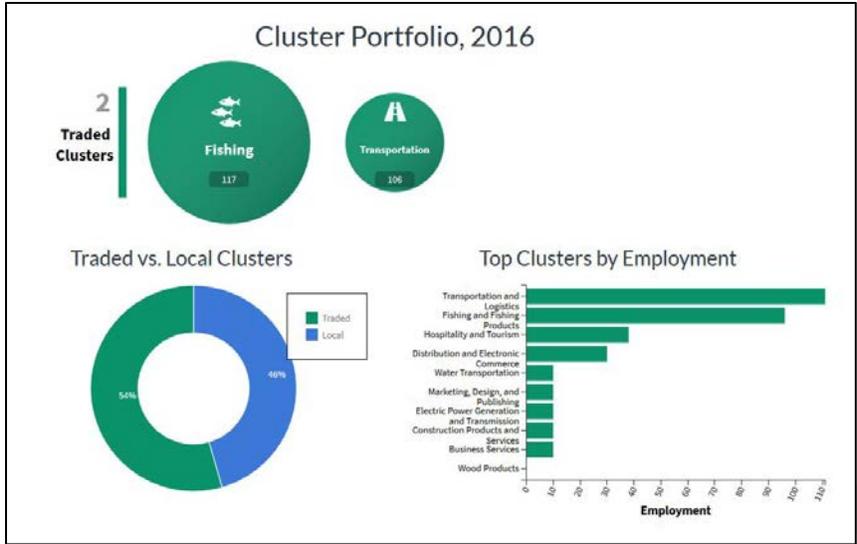
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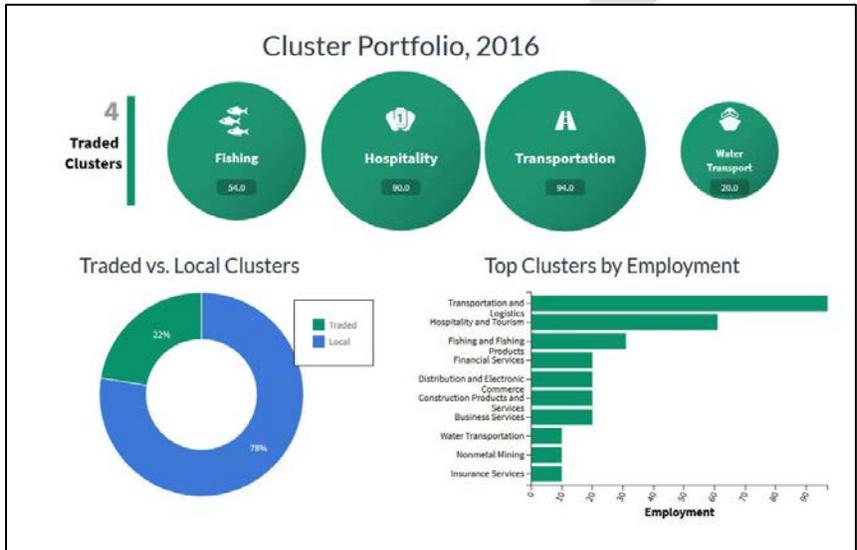
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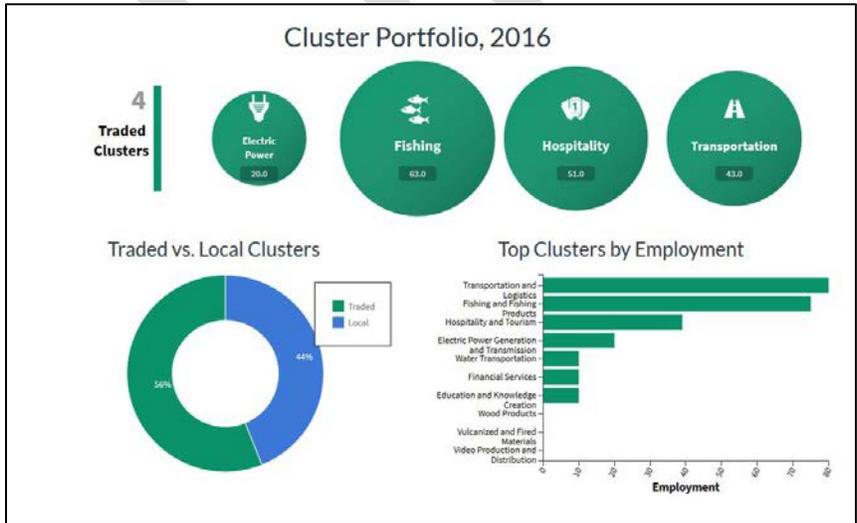
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Bristol Bay Borough Industry Clusters



Dillingham Census Area Industry Clusters



Lake and Peninsula Borough Industry Clusters

Cluster Portfolios retrieved from: <http://clustermapping.us/>  
On March 28, 2019.