

**Agency: Commerce, Community and Economic Development****Grants to Named Recipients (AS 37.05.316)****Grant Recipient: Cook Inlet Aquaculture Association****Federal Tax ID: 92-0063954****Project Title:****Project Type: Maintenance and Repairs**

# Cook Inlet Aquaculture Association - Tutka Bay Hatchery Maintenance and Upgrade

**State Funding Requested: \$1,290,000****House District: Southcentral Region (12-35)**

One-Time Need

**Brief Project Description:**

Tutka Bay Lagoon Hatchery is a State-owned hatchery that was last expanded in 1993. This project will fund water supply & fishway improvements, electrical powerline replacement, equipment replacement, and bunkhouse replacement.

**Funding Plan:**

Total Project Cost:	\$2,007,000
Funding Already Secured:	(\$717,000)
FY2012 State Funding Request:	<u>(\$1,290,000)</u>
Project Deficit:	\$0
<i>Funding Details:</i>	
<i>CIAA will provide the administrative costs associated with this project. Dollar value estimated at 10% of total project cost. \$551,000 was appropriated for this project in the FY11 State of Alaska capital budget.</i>	

**Detailed Project Description and Justification:**

Tutka Bay Lagoon Hatchery is a State-owned salmon hatchery located remotely near the community of Homer on the Kenai Peninsula. The facility was last expanded in 1993 and is overdue for much needed repairs and maintenance. This project will provide for water supply & fishway improvements, electrical powerline replacement, heavy equipment replacement, and bunkhouse replacement.

These improvements will serve to update the facility to improve performance and efficiency.

**Project Timeline:**

Improvements will be made during the 2011-2013 summer construction months.

**Entity Responsible for the Ongoing Operation and Maintenance of this Project:**

Cook Inlet Aquaculture Association

**Grant Recipient Contact Information:**

Name:	Gary Fandrei
Title:	Executive Director
Address:	40610 Kalifornsky Beach Road Kenai, Alaska 99611
Phone Number:	(907)283-5761
Email:	gfandrei@ciaanet.org

Has this project been through a public review process at the local level and is it a community priority?  Yes  No

**Essential Deferred Maintenance, Repairs, Replacements,  
and Compliance Improvements  
for Trail Lakes and Tutka Bay Lagoon Hatcheries**

**Cook Inlet Aquaculture Association  
October 2010**

**Operation of the Cook Inlet Aquaculture Association is made possible through enhancement taxes paid by commercial fishermen in Area H, Cook Inlet and associated waters, and the harvest and sale of cost-recovered fish.**

## Capital Improvement Projects Summary

The Cook Inlet Aquaculture Association (CIAA) is a private nonprofit regional association which exists to protect, enhance, and rehabilitate self-sustaining salmon stocks throughout the Cook Inlet drainage. For more than a quarter of a century, Cook Inlet commercial salmon fishermen have contributed two percent of their annual gross revenues from salmon harvests to a Salmon Enhancement Tax (SET) that supports CIAA's salmon enhancement mission.

In the early 1990s, annual SET receipts averaged \$1.8 million (5-year floating average). It was during this time that CIAA agreed to operate and maintain three (3) State hatcheries – Trail Lakes, Tutka Bay Lagoon, and Crooked Creek. Since the early 1990s SET receipts have declined dramatically; and in 2003 the SET receipt was only \$191,778 or 10.5% of the average in the early 1990s. This rapid decline in SET receipts coupled with increased operating costs severely stressed CIAA's financial resources and resulted in the termination of operations at two (2) of the three (3) hatchery facilities. SET receipts have increased slightly and now average \$432,578 or 24% of the average in the early 1990s.

CIAA continues to operate Trail Lakes Hatchery and plans to reopen Tutka Bay Lagoon Hatchery as soon as broodstock can be secured. It is unlikely Crooked Creek Hatchery will operate again.

CIAA is now faced with the challenge of maintaining two (2) aging state facilities with limited financial resources. CIAA wishes to continue to provide additional fish for common property harvest by commercial, sport, personal use and subsistence users and is planning to renew its contract with the State for the operation and maintenance of Tutka Bay Lagoon Hatchery. CIAA recently renewed its contract to maintain and operate Trail Lakes Hatchery.

To accomplish CIAA's mission to provide additional common property harvest we must update the aging State facilities and find the funds necessary to continue their operations. CIAA has secured the operational funds for Trail Lakes Hatchery through a coordinated cost-recovery harvest plan adopted by the Board of Fisheries. CIAA will seek a similar plan for Tutka Bay Lagoon Hatchery when operations resume. CIAA has requested the funds needed to address essential deferred maintenance, repairs, replacements and compliance improvements of the State facilities be provided by the State through a Capital Improvement Project (CIP) allocation.

A total of \$4.180M is needed to complete all identified improvements to Trail Lakes and Tutka Bay Lagoon Hatcheries. \$1.00M has been appropriated as a FY2011 Designated Legislative Grant. **The purpose of this request is to update the original request and secure the funds required to complete the remaining maintenance work, \$3.18M.** The funds will be allocated in the following manner:

<b>Trail Lakes Hatchery:</b>	<b>Subtotal:</b>	<b>\$1,890,000</b>
<b>Tutka Bay Lagoon Hatchery:</b>	<b>Subtotal:</b>	<b>\$1,290,000</b>
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	<b>Total:</b>	<b>\$3,180,000</b>

## **Appendices**

## Trail Lakes Hatchery Capital Improvement Projects

**Background:** Trail Lakes Hatchery is owned by the State of Alaska and operated by Cook Inlet Aquaculture Association (CIAA) through contract with the Alaska Department of Fish and Game (ADF&G). The hatchery is located at Trail Lakes near the community of Moose Pass, Alaska and is permitted for sockeye and coho salmon releases at selected sites throughout the Cook Inlet drainage. Built in 1982 the hatchery is overdue for much needed repairs and maintenance. These improvements will serve to update the facility to improve performance and efficiency.

The Trail Lakes Hatchery benefits numerous groups. At capacity, the hatchery has the potential to provide 800,000 adult salmon annually for all user groups in the Cook Inlet area. The operation of the hatchery provides employment for four full-time positions and up to 30 seasonal positions. This hatchery currently provides returning sockeye and coho salmon to areas such as Hidden Lake in Upper Cook Inlet, Leisure Lake, Hazel Lake, and Tutka Bay Lagoon in Kachemak Bay, Kirschner Lake in Kamishak Bay and Bear Lake in Resurrection Bay. The hatchery also provides an educational opportunity for area schools to understand the salmon lifecycle through hands-on participation in fish culture.

This facility benefits all users of the Cook Inlet salmon resource – subsistence, commercial, sport and personal use.

**Purpose:** To provide funds necessary to perform maintenance and improvements to an aging State of Alaska owned hatchery facility.

**Budget:** \$1,890,000 in full to perform maintenance and improvement projects on the facility and equipment.

### Revenue will support:

Essential Deferred Maintenance	\$600,000
Essential Compliance Improvements	\$360,000
Other Deferred Maintenance	\$105,000
Repairs, Replacements and Compliance Improvements	\$165,000
Capital Improvement Projects	<u>\$660,000</u>
Subtotal:	\$1,890,000

### Additional Information:

**Replace Backup Generator and Controls - \$250K** All hatcheries require a back-up power supply to assure continuous pump operations and water supply for rearing fish. The Trail Lakes Hatchery back-up generator is 30 years old. A new generator that will run the necessary well pumps is required. The existing generator will be maintained to ensure that hatchery production is safe from any future power outages.

**Roof - \$0** The original roofing will be removed and a new roof put in its place. This project is being completed through the FY2011 Legislative Grant.

**Paint Hatchery Interior and Repair Water Damage - \$0** The interior of the hatchery will be painted and repaired particularly where the walls were damaged by the leaking roof. This project is being completed through the FY2011 Legislative Grant.

**Replace Process Water Boilers - \$50K** All fish released from Trail Lakes Hatchery are thermally marked for identification and assessment. The Trail Lakes Hatchery process water boilers are 30 years old and require extensive maintenance. New, efficient boilers will ensure future hatchery production is correctly marked and Trail Lakes Hatchery programs are properly evaluated. This project is being partially completed through the FY2011 Legislative Grant.

**Resurface/Replace Raceways - \$100K** The raceways used in Trail Lakes Hatchery for rearing are pre-formed concrete. The raceways are porous, hard to clean and very difficult to sterilize. Microbes and pathogens adhere to the surface, and algae growth is exacerbated. Coating the raceways with a polyurethane/epoxy material will mean the raceway surfaces can be sealed, cleaned and disinfected more efficiently. This project is being partially completed through the FY2011 Legislative Grant.

**Rebuild Effluent Drum Filters - \$50K** The drum filters are original equipment and need to be rebuilt. Sprockets, bearings, gears, chains and screens need to be replaced to efficiently treat hatchery effluent before it is discharged.

**Replace Sanitary Wastewater Treatment System – \$150K** The sanitary wastewater treatment system is original equipment, and its capacity is exceeded during the summer when visitor use rises. The system needs to be replaced with an appropriately sized system.

**Depurate Influent (UV system) - \$360K** Trail Lakes Hatchery was constructed without adequate well (influent water) protection resulting in sporadic viral contamination and loss of fish. CIAA has spent over \$200,000 to correct this construction oversight. To assure Trail Lakes Hatchery fish are protected from future influent water contamination, the Alaska Department of Fish and Game has asked CIAA to install and operate a UV influent water sterilization system. This project is being partially completed through the FY2011 Legislative Grant.

**Update Alarm System – \$10K** Alarm systems are critical to hatchery operations. The Trail Lakes Hatchery alarm system is outdated and needs to be replaced with updated more reliable technology.

**Replace Interior Lighting – \$0** The lighting system will be replaced with energy efficient T8 fluorescent lamps and electronic ballasts. This project is being completed through the FY2011 Legislative Grant.

**Replace Heating System – \$25K** The Trail Lakes Hatchery heating system is outdated and needs to be replaced with an energy efficient system.

**Houses – \$70K** The Trail Lakes Hatchery Assistant Manager and Fish Culturist must respond to hatchery alarms and are required to live on-site. The hatchery houses are 30 years old. The bathrooms need to be remodeled and the doors, windows and deck need replacement.

## **Tutka Bay Lagoon Capital Improvement Projects**

**Background:** Tutka Bay Lagoon Hatchery is owned by the State of Alaska and operated by Cook Inlet Aquaculture Association (CIAA) through contract with the Alaska Department of Fish and Game (ADF&G). The hatchery is located in the Tutka Bay near the community of Homer, Alaska and is permitted for pink and sockeye salmon releases to Tutka Bay Lagoon. This facility was last expanded in 1993 and is overdue for much needed repairs and maintenance. These improvements will serve to update the facility to improve performance and efficiency.

The CIAA Board of Directors elected to suspend year-round operations at Tutka Bay Lagoon Hatchery in 2004. However, CIAA expects to resume pink salmon production at the facility as soon as a broodstock can be secured and CIAA is seasonally rearing sockeye salmon in waters of Tutka Bay Lagoon under a permit issued to the Trail Lakes Hatchery. The current seasonal operations include a sockeye salmon smolt release and sockeye salmon cost recovery. The sockeye return is critical to future CIAA cost recovery harvests.

This facility benefits all users of the Cook Inlet salmon resource – subsistence, commercial, sport and personal use.

**Purpose:** To provide funds necessary to perform maintenance and improvements to an aging State of Alaska owned hatchery facility.

**Budget:** **\$1,290,000** in full to perform maintenance and improvement projects on the facility and equipment.

**Revenue will support:**

Essential Deferred Maintenance	\$230,000
Other Deferred Maintenance	\$555,000
Repairs, Replacements and Compliance Improvements	\$ 80,000
Capital Improvement Projects	<u>\$425,000</u>
Subtotal:	\$1,290,000

**Additional Information:**

**Replace Decommissioned Power Line - \$230K** Electric power to Tutka Bay Lagoon is supplied by the Homer Electric Association (HEA). HEA recently notified CIAA that the line providing power to the hatchery facility has outlived its useful life and must be retired. CIAA requires electric power at this facility to complete development of a broodsource for the Lower Cook Inlet lakes enhancement project and reestablish pink salmon production.

**Replace Back-up Generator and Control Panel - \$0** A back-up generator that will run the necessary well pumps will ensure that hatchery production is safe from future power outages. This project is being completed through the FY2011 Legislative Grant.



**Replace Pump Rotoverter System - \$0** The aging pump rotoverter system is unreliable and will be replaced with an energy efficient frequency drive system. This project is being completed through the FY2011 Legislative Grant.

**Update Alarm System – \$0** The Tutka Bay Lagoon Hatchery alarm system is outdated and will be replaced with updated more reliable technology. This project is being completed through the FY2011 Legislative Grant.

**Replace Backhoe - \$50K** Tutka Bay Lagoon is a remote facility that must operate without assistance typically available on a road system. A backhoe is a critical piece of equipment serving many functions in this remote location. The backhoe is over 20 years old and needs to be replaced.

**Replace Phone System - \$0** Tutka Bay Lagoon is a remote facility that is currently served by an outdated radio phone. The phone system will be replaced with updated satellite technology. This project is being completed through the FY2011 Legislative Grant.

**Fry Counters - \$5K** Fry counter systems are critical to hatchery operations. The Tutka Bay Lagoon Hatchery fry counter is outdated. For hatchery operations to resume the fry counters need to be replaced with updated more reliable technology.

**Houses – \$450K** The Tutka Bay Lagoon Hatchery Manager, Assistant Manager, Fish Culturist and seasonal employees are required to live on-site. The hatchery houses and crew bunkhouse are 30 years old. For hatchery operations to resume, the houses and crew bunkhouse need to be remodeled.

**Replace Influent Settling Tank - \$150K** The influent settling tank removes sediment from the hatchery's water supply. The settling tank is over 30 years old. For hatchery operations to resume the settling tank must be replaced.

## Trail Lakes Hatchery CIP List

<b>Essential Deferred Maintenance</b>	FY2011 Grant	FY2012 Request
Replace Back-up Generator and Electrical Controls	\$ 100,000	\$ 250,000
Repair Roof	\$ 50,000	\$ -
Paint Hatchery Interior & Repair Water Damage	\$ 50,000	\$ -
Resurface/Replace Raceways	\$ 6,000	\$ 100,000
Replace Overhead Doors	\$ 30,000	\$ -
Replace Process Water Boilers	\$	\$ 50,000
Rebuild Effluent Treatment Drum Filters	\$	\$ 50,000
Replace Sanitary Wastewater Treatment System	\$	\$ 150,000
	\$ 236,000	\$ 600,000

<b>Essential Compliance Improvements</b>	FY2011 Grant	FY2012 Request
Depurate Influent (UV System)	\$ 90,000	\$ 360,000
	\$ 90,000	\$ 360,000

<b>Deferred Maintenance</b>	FY2011 Grant	FY2012 Request
Update Alarm System	\$	\$ 10,000
Replace Interior Lights	\$ 10,000	\$ -
Replace Heating System	\$	\$ 25,000
Houses	\$	\$ 70,000
	\$ 10,000	\$ 105,000

<b>Repairs, Replacements, and Compliance Improvements</b>	FY2011 Grant	FY2012 Request
Purchase and Outfit Fish Stocking Vehicle	\$	\$ 60,000
Purchase and Install Variable Speed Well Pumps	\$ 25,000	\$ 75,000
Snow Removal Equipment	\$	\$ 30,000
Miscellaneous Repairs	\$ 25,000	\$
	\$ 50,000	\$ 165,000

<b>Capital Improvements</b>	FY2011 Grant	FY2012 Request
Install Rough Water Net Pens for Resurrection Bay	\$	\$ 40,000
Insulate and Install Flooring in Building Expansion	\$	\$ 50,000
Enclose Outdoor Raceways	\$	\$ 400,000
Outside Storage Building	\$	\$ 75,000
Pave Parking Lot	\$	\$ 45,000
Visitor Access/Program/Reflection Pool	\$	\$ 50,000
	\$ -	\$ 660,000

<b>Trail Lakes Hatchery Total</b>	<b>\$ 386,000</b>	<b>\$ 1,890,000</b>
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## Tutka Bay Lagoon Hatchery CIP List

<b>Essential Deferred Maintenance</b>	FY2011 Grant	FY2012 Request
Replace Powerline	\$	\$ 230,000
Replace Back-up Generator and Control Panel	\$ 80,000	\$ -
	\$ 80,000	\$ 230,000
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<b>Deferred Maintenance</b>	FY2011 Grant	FY2012 Request
Replace Pump Rotoverter System	\$ 25,000	\$ -
Update Alarm System	\$ 10,000	\$ -
Replace Backhoe		\$ 50,000
Replace Phone System	\$ 25,000	\$ -
Fry Counters		\$ 5,000
Houses		\$ -
Remodel Houses	\$ 100,000	\$ -
Replace Bunkhouse		\$ 350,000
Replace Influent Settling Tank		\$ 150,000
	\$ 160,000	\$ 555,000
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<b>Repairs, Replacements, and Compliance Improvements</b>	FY2011 Grant	FY2012 Request
Hatchery Vehicle (ATV or Small Used Truck)	\$ 6,000	\$ -
Crew Boat		\$ 50,000
Snow Removal Equipment		\$ 30,000
Miscellaneous Repairs	\$ 25,000	
	\$ 31,000	\$ 80,000
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<b>Capital Improvements</b>	FY2011 Grant	FY2012 Request
Install Domestic Well (Potable Water Supply)	\$ 30,000	\$ -
Extend Road to Lower Tidal Zone		\$ 75,000
Construct Sockeye Ripening Pond		\$ 100,000
Rough Water Net Pens for Tutka Bay	\$ 250,000	\$ -
Gravity Feed Water Supply Lines		\$ 250,000
	\$ 280,000	\$ 425,000
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<b>Tutka Bay Lagoon Hatchery Total</b>	<b>\$ 551,000</b>	<b>\$ 1,290,000</b>

## FY2011 Designated Legislative Grant

**\$1.00M** has been appropriated as a FY2011 Designated Legislative Grant per AS 37.05.316 to complete improvements to Trail Lakes and Tutka Bay Lagoon Hatcheries. CIAA will use the funds as outlined in the list below. Cost may be adjusted pending detailed engineering analysis and all projects will be completed between July 1, 2010 and June 30, 2013.

<b>Trail Lakes Hatchery CIP List</b>		<b>Est. Cost</b>
Repair Roof	\$	100,000
Paint Hatchery Interior & Repair Water Damage	\$	50,000
Replace Overhead Doors	\$	6,000
Resurface/Replace Two (2) Indoor Raceways	\$	50,000
Replace One (1) Process Water Boiler	\$	30,000
Replace Interior Lights	\$	10,000
Purchase and Install One (1) Variable Speed Well Pump	\$	25,000
Depurate Influent (UV System)	\$	90,000
<b>Total</b>	<b>\$</b>	<b>361,000</b>

<b>Tutka Bay Lagoon Hatchery CIP List</b>		<b>Est. Cost</b>
Replace Back-up Generator and Control Panel	\$	80,000
Replace Pump Rotoverter System	\$	25,000
Update Alarm System	\$	10,000
Replace Phone System	\$	25,000
Remodel Houses	\$	100,000
Hatchery Vehicle (ATV or Small Used Truck)	\$	6,000
Install Domestic Well (Potable Water Supply)	\$	30,000
Rough Water Net Pens for Tutka Bay	\$	250,000
<b>Total</b>	<b>\$</b>	<b>526,000</b>

<b>Estimated Other Expenses</b>		<b>Est. Cost</b>
Unknown Maintenance Problems	\$	50,000
5% Equipment Purchases 10% Other Projects	\$	63,000
	<b>\$</b>	<b>113,000</b>

**Total** **\$ 1,000,000**

## **Mission Statement**

Cook Inlet Aquaculture Association is a nonprofit regional association which exists to: (1) protect self-sustaining salmon stocks and habitats upon which they depend; (2) rehabilitate self-sustaining salmon stocks; (3) rehabilitate salmon habitat; and (4) maximize the value of the Cook Inlet (Area H) common property salmon resource by applying science and enhancement technology where appropriate.

## **Goals Statement**

To accomplish this mission the Board of Directors of Cook Inlet Aquaculture Association will:

Seek protection of salmon habitat through active participation (testimony, committee work, data input, etc.) in planning, permitting and enforcement processes.

Conduct salmon rehabilitation and enhancement projects which can be expected to significantly contribute to common property fishery harvests. An average harvest rate of 50% in the common property fishery is the acceptable standard for "significant contribution". This standard does not apply during project development or to projects designed solely for cost recovery harvest.

Conduct evaluation activities which increase the effectiveness of project implementation.

Engage in research which advances the state of enhancement/rehabilitation technology.

Be sensitive to the interests of those harvesting the Area H common property salmon resource.

Educate the public about the salmon resource and the mission, goals and projects of the Association.

Maintain the highest standards of financial responsibility and accountability for the funds entrusted to it.

Maintain facilities, administrative practices and personnel policies which require and encourage its staff to perform in a safe, professional and cost-effective manner.

Comply with all statutes and regulations governing private nonprofit aquaculture association activities in the State of Alaska.

Participate, within the limits for tax-exempt corporations, in the development of legislation and regulation relevant to attainment of the mission.

## **Board of Directors of the Cook Inlet Aquaculture Association**

A Board of Directors that meets six times each year controls the affairs of the Association. None of the Directors receives any compensation or per diem from the Association for serving on the Board.

### Inlet Wide Commercial Fishermen Representatives

Director(s):	Christine Brandt Mike Wiley-1 <sup>st</sup> Vice Pres.	Alternate(s)	Charles Smith Robert Correia
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### Cook Inlet Fishermen's Fund

Director(s):	Teague Vanek Dave Martin-Secretary	Alternate(s)	Chris Garcia Chris Garcia
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### Cook Inlet Seiners Association

Director(s):	Charles Walkden Nathan Wise	Alternate(s)	John Wise Vacant
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### Kenai Peninsula Fisherman's Association

Director(s):	Brent Johnson-President Mike Wiley	Alternate(s)	Norm Darch Vacant
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### North Pacific Fisheries Association

Director(s):	Jessie Nelson Vacant	Alternate(s)	Malcolm Milne Vacant
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### United Cook Inlet Drifters Association

Director(s):	Steve Tvenstrup-2 <sup>nd</sup> Vice Pres. Frankie DeRossitt-Treasurer	Alternate(s)	Vacant Richard Thompson
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### City of Homer

Director(s):	Mark Roth	Alternate(s)	Al Ray Carroll
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### City of Kachemak

Director(s):	Emil Nelson	Alternate(s)	Glenn Carroll
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### City of Seward

Director(s):	John French	Alternate(s)	Vacant
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### Cook Inlet Region, Inc.

Director(s):	Paul Shadura II	Alternate(s)	Vacant
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### Kenai Peninsula Borough

Director(s):	Paul Fischer	Alternate(s)	Ron Long
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### Matanuska-Susitna Borough

Director(s):	Brian Bohman	Alternates(s)	Vacant
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### Municipality of Anchorage

Director(s):	Sam Cotten	Alternate(s)	Vacant
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### Ninilchik Village Council

Director(s):	Stephen Vanek	Alternate(s)	Vacant
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### Processor Representative

Director(s)	Timothy Schmidt	Alternate(s)	Duff Hoyt
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### Kenai Area Fisherman's Coalition

Director(s)	Ken Tarbox	Alternate(s)	Brad Carver
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### Northern District Setnetters

Director(s)	Kenny Rodgers	Alternate(s)	Page Herring
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## Personnel Resumes – Key CIAA Staff

Gary L. Fandrei, Executive Director  
Cook Inlet Aquaculture Association  
40610 Kalifornsky Beach Road  
Kenai, AK. 99611-6445  
(907) 283-5761

### Professional Experience

Cook Inlet Aquaculture Association, 40610 Kalifornsky Beach Road, Kenai, AK. 99611-6445. Tel: (907) 283-5761. FAX: (907) 283-9433. e-mail: [gfandrei@ciaanet.org](mailto:gfandrei@ciaanet.org).

Executive Director. 11/96 to present. Full-time position to provide direction and leadership to the Cook Inlet Aquaculture Association, a private non-profit corporation dedicated to salmon enhancement throughout the Cook Inlet drainage. Responsible for budgets, personnel, facilities, and project management and all aspects of the management of the Cook Inlet Aquaculture Association.

Currently serving as a Director and Vice-chair of the Cook Inlet Regional Citizens Advisory Council, a Director and Enhancement Committee Chair of the United Fishermen of Alaska, a member and Vice-chair of the Exxon Valdez Oil Spill Trustee Council's Public Advisory Committee (PAC), a member of the Exxon Valdez Oil Spill Trustee Council's Prince William Sound Herring Recovery Committee and the Commander of the Kenai Composite Squadron of the Civil Air Patrol.

Biologist. 8/90 to 11/97. Full-time position. Responsible for the development and operation of salmon enhancement projects throughout Cook Inlet drainage. Primary activities involved the direction and technical evaluation of lake stocking and fertilization projects. Integrated basic principles of fishery biology to lake and stream ecology to assure the successful implementation of salmon enhancement projects.

State of Minnesota, Pollution Control Agency, 520 Lafayette Road, St. Paul, MN 55155.

Research Scientist II. 4/88 to 7/90. Full-time position. Responsible for project management activities for eight Clean Water Partnership projects by acting as the liaison between local units of government and the Minnesota Pollution Control Agency. Provided direction and technical guidance to local project managers on work plans and budgets. Also responsible for developing and directing studies on nonpoint source pollution reference watersheds and provided biological assistance to other members of the Nonpoint Source Unit.

Senior Biologist. 3/85 to 4/88. Full-time position. Responsible for identification of areas with significant nonpoint source water quality impacts and the development of a strategy to prioritize the impacted areas for the protection of important fish and wildlife environments. Integrated all aspects of surface and groundwater pollution and its relationship to the physical, chemical and biological components of the environment.

Intermediate Biologist. 12/82 to 3/85.

Pollution Control Specialist II. 4/80 to 12/82.

Biologist. 2/79 to 4/80. Full-time position.

Pollution Control Specialist I. 6/78 to 4/80.

#### Other Work Experience

Biological Technician. U.S. Bureau of Land Management 5/78 to 7/78.

Creel Census Clerk. Minnesota Department of Natural Resources. 7/77 to 10/77.

Teaching Assistant. University of Minnesota. 9/75 to 6/77.

Research Assistant. University of Minnesota. 7/75 to 9/75.

#### Education and Certifications

Master of Science Degree. Environmental Biology. 12/77. University of Minnesota - Duluth. Attended 9/75 to 12/77.

Studied the effects of chlorine toxicity on fish as thesis research project. Analyzed behavior impacts and mortality rates of short-term exposure to total residual chlorine. Published thesis in the Bulletin of Environmental Contamination and Toxicology.

Bachelor of Science Degree. Ecosystems Analysis. 5/75. University of Wisconsin - Green Bay. Attended 9/71 to 5/75.

Course work in population biology of aquatic communities and management of public lands.

Foraker Certificate for Nonprofit Management. 9/16/05. The Foraker Group and the University of Alaska.

Certified Fisheries Professional. 4/7/89 and 4/30/04. American Fisheries Society. Board of Professional Certification.





# UNITED FISHERMEN OF ALASKA

211 Fourth Street, Suite 110  
Juneau, Alaska 99801-1172  
(907) 586-2820  
(907) 463-2545 Fax  
E-Mail: [ufa@ufa-fish.org](mailto:ufa@ufa-fish.org)  
[www.ufa-fish.org](http://www.ufa-fish.org)

## Resolution 2010-1

### A RESOLUTION OF THE UNITED FISHERMEN OF ALASKA SUPPORT FUNDING THE DEFERRED MAINTENANCE PROJECTS AT THE STATE-OWNED SALMON HATCHERIES

WHEREAS, the Alaska Department of Fish and Game Division of Fisheries Rehabilitation, Enhancement, and Development was formed in the 1970's to develop policies, regulations, and hatchery practices to responsibly rebuild and utilize Alaska's renewable and sustainable salmon natural resources; and

WHEREAS, the State of Alaska currently owns 11 salmon enhancement hatcheries operated by regional and non-regional private non-profit aquaculture associations via professional services agreements at no cost to the state; and

WHEREAS, these state-owned salmon hatcheries are 30 to 40 years old and are need of significant deferred maintenance to address basic infrastructure problems beyond the normal annual maintenance provided by the private non-profit aquaculture associations at no cost to the state; and


WHEREAS, these diverse salmon enhancement programs contribute significantly to the Alaska common property fisheries (commercial, sport, subsistence, and personal use) in many areas of the state and are helping to sustain the Alaska salmon fisheries and domestic and international Alaska salmon markets; and


WHEREAS, salmon produced by the Alaska salmon enhancement program have fetched hundreds of millions of dollars in ex-vessel value and billions of dollars in total economic output; and

WHEREAS, the economic impact from the Alaska salmon enhancement program is significant and vital to the Alaska salmon industry in creating jobs and wealth within the rural and urban communities that would not otherwise be present;

THEREFORE BE IT RESOLVED, that the United Fishermen of Alaska support funding for the deferred maintenance projects at the state-owned salmon hatcheries throughout Alaska.

By UFA Board of Directors, September 29, 2010:

  
Arni Thomson, UFA President

  
Attest: Mark D. Vinsel, UFA Executive Director