

CITY & BOROUGH OF WRANGELL

Brief History: Wrangell is one of the oldest non-Native settlements in Alaska. In 1811 the Russians began fur trading with area Tlingits and built a stockade named Redoubt St. Dionysius in 1834. The island was named for Ferdinand Von Wrangel, manager of the Russian-American Co. around 1830. The fort was abandoned in 1849 when furs were depleted. The fort remained under the British flag until Alaska's purchase by the U.S. in 1867. In 1868 a U.S. military post called Fort Wrangell was established and named for the island. The community continued to grow as an outfitter for gold prospectors, especially in 1861, 1874-77, and 1897. Riotous activity filled gambling halls, dance halls, and the streets. Thousands of miners traveled up the Stikine River into the Cassiar District of British Columbia during 1874 and to the Klondike in 1897. Glacier Packing Co. began operating in Wrangell in 1889. The Wilson & Sylvester Sawmill provided packing boxes for canneries and lumber for construction. The city was incorporated in 1903. The city was dissolved and reincorporated as the City and Borough of Wrangell on June 1, 2008.



Photo Courtesy: DCCED

State of Alaska

Pronunciation:	(RANG-gull)
Population (2007):	2,058
Shoreline:	24 miles
Annual Precipitation:	82"
Annual Snowfall:	64"
Hours of Daylight Summer:	17 hours, 45 min
Hours of Daylight Winter:	6 hours, 51 min
Regional Native Corporation:	Sealaska Corporation
Legislative District:	2, A



Division of Coastal & Ocean Management



**STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM**

CITY AND BOROUGH OF WRANGELL

The Borough will be conducting this project as a legislatively named CIAP recipient
on behalf of the State of Alaska

PROJECT TITLE: Protecting Coastal Areas through Waste Management Improvement

PROJECT CONTACT

Contact Name: Carol M. Rushmore, Economic Development Director
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Telephone Number: (907) 874-2381
Fax Number: (907) 874-3952
Email Address: ecodev@wrangell.com

PROJECT LOCATION

The Waste Management Improvement program and its implementation is proposed for the community of Wrangell, which is located on the northern end of Wrangell Island within the City and Borough of Wrangell. Wrangell is located approximately 70 miles north of Ketchikan in central southeast Alaska, surrounded by the Tongass National Forest. Wrangell is a community of 2000 people and the primary commercial center for the remote outlying settlement areas scattered within the borough. Access to Wrangell is by jet plane, charter planes, ferry or other marine transportation. Most of our goods are shipped in via barges. Marine transportation is the primary mode of transportation on and off the island. Commercial fishing is one of our primary industries, along with tourism.

PROJECT DURATION

The development of the Waste Management Improvement program will be completed by the end of 2011.

ESTIMATED COST

Spending Estimate (\$)				
TOTAL	Year 1	Year 2	Year 3	Year 3.5
\$85,692.85	\$85,692.85	0	0	0

All of the funding will be with FY 10 funding.

Funding per Allocation Year of CIAP (\$)				
TOTAL	FY 07	FY 08	FY 09	FY 10
\$85,692.85	0	0	0	\$85,692.85

PROJECT DESCRIPTION

This project proposes to implement a recycling program to reduce individual trash volume to address a waste management issue of remote and unauthorized dumping, causing contamination of the environment and impacts to food sources and public use areas. The project will build upon a recent solid waste management plan completed in Wrangell that identifies options for waste handling. The proposal is to provide an assessment of the most effective recycling opportunities and begin implementation. Education of the community is another component that will be critical to the success of the project. Educating the public as to disposal options that are easily accessible and will reduce individual volumes and thereby reducing their pick-up cost requirements, are expected to deter unauthorized remote dumping, resulting in impacts to the coastal environment. The project will also clean up at least three sites located on Borough forest roads closest to shoreline or anadromous streams, recreation areas, food gathering areas or residential areas.

The project seeks to work with the community to improve local capacity to deal with waste or resource recovery in the most responsible and sustainable way. Wrangell, as most southeast communities do, ships solid waste south to eastern Washington at great expense. Wrangell saw an increase in remote dumping and near shore debris several years ago when solid waste rates were increased to cover the \$145/ton it costs to ship. The recent solid waste management plan proposed several disposal and waste handling options which the Borough is currently considering. Recycling in order to reduce the waste stream and prevent environmental contamination was only identified as another component to our overall waste handling plan. The focus of this effort is 1) to assess options to reduce, reuse and recycle waste in order to prevent or remove contamination from the environment and thus, protect, conserve and restore the coastal area, 2) implement recycling program by priority as identified in the assessment 3) clean up at least three of the remote dumpsites, and 4) educate the public as to where, how, and why to recycle.

Planes and barges regularly bring in tons of cargo, and most of it never leaves. Much of it will end up in the Wrangell dump to be containerized and shipped south on a barge (weekly). Wrangell's dump is located on the immediate shoreline, and while it is in closure procedures, trash to be shipped is stockpiled for sorting and containerizing. Some trash is burned in open air containers in yards, but other trash, due to increased disposal costs, ends up being dumped in convenient, remote locations, including beaches, wetlands, streamside dumps, and forest roads. The cost to ship our trash south dramatically increased several years ago. All residences and businesses are charged a monthly minimum of one 32 gallon can fee for garbage costs, and then assessed extra fees for additional cans or dump drop offs. The Borough and the US Forest Service started seeing an increase in remote dumping sites after the increase in garbage rates were initiated to cover the increase in shipping costs. If Wrangell can help individuals reduce their waste volume by providing easily accessible and affordable or free recycling options, we believe that the remote dumping will decrease.

The unauthorized remote dump sites are located on federal, state, and borough road systems. The locations are not heavily visited, so it is easy to throw the trash out of a pickup off the side of the road without being seen. Due to our topography and annual precipitation, the dump sites are near streams, in beach fringes, or wet low lying areas. The sites are relatively small and isolated, and it is estimated that most could be cleaned up in probably 4 or less truckloads. Some of this unauthorized waste, for example, plastic grocery bags or plastic soft drink "rings", can easily become windblown and end up across the landscape, or fall into drainages and end up further downstream or in the ocean, harming or even killing many animals, including birds, fish and other subsistence animals that ingest the bags, and other fugitive waste (solid and liquid). Leachate forms from the toxic soup of batteries, paint, cleaners, metals, electronics, fluids, food and other organic waste, and other household and industrial waste that ends up in remote unauthorized dumping areas. Smoke from open burning by individuals in order to minimize personal trash volume produces PCBs, dioxins, and other toxins. This contamination makes its way into the land, air and waterways throughout the coastal area. This also impacts subsistence resources.

E (electronic)-waste (computers, remote controls, smoke detectors, VCRs, etc.) contain heavy metals. When e-waste is discarded, especially along streambanks and creeks, in wetlands or anywhere it is left exposed to the elements (rain, moisture, snow), the metals leach out into the environment causing aquatic toxicity harmful to the environment. This has been documented in the Archives of Environmental Contamination and Toxicology and studies funded by the National Science Foundation.

There has been considerable research completed by Southeast Conference (ARDOR) as well as individual communities, including Wrangell, to assess the volume and analyze the make-up of the waste stream. Wrangell completed a solid waste management plan in 2009 in partnership with the Springboard program and the US Navy. It provided an analysis of a typical Wrangell household waste stream and made recommendations as to effective disposal methods. There were two recommendations to that plan, both suggesting recycling, but not directly addressing the issue.

Currently, only aluminum cans are recycled in Wrangell. The Wrangell Lion's Club collects voluntary drop offs around town, shipping a container south approximately 3 times a year. The proceeds from the cans are invested back into the community to support kids and community activities. Cardboard and office paper may be dropped off at the dump for free, but the dump's location, open hours and mess, makes it an unfriendly spot for individuals to go. Paper and cardboard are burned in an open container, putting potentially hazardous toxins back into the environment.

To help address these waste management problems, this project proposes to provide opportunities to minimize individual general trash volume through a recycling effort in order to preserve local environmental resources. Further in-depth analysis of how best to collect and process recycled goods, including the specific equipment and operational process and costs still needs to be completed. If Wrangell can help individuals reduce their waste volume by providing easily accessible and affordable or free recycling options, we believe that the remote dumping will decrease, thereby protecting, conserving and restoring the coastal area. Borough staff are

currently analyzing location(s) for easy drop-offs of recyclable items. Based on preliminary consultations thus far, several options for reducing volume include the purchase of a hydraulic stamp that can crush glass bottles to sand to use in roadbeds, garden, cement; a shredder for paper products that will also reduce open burning that can be reformed into insulation; and a bailer for plastics, tin cans, or aluminum cans. These are often larger volume items that could be compressed and stockpiled before shipping, thus affecting the economic efficiency of the borough's handling and shipping. Plastics might also be formed into pellets locally for industrial manufacturing reuse. Providing for the sorting and removal and efficient processing of certain wastes from the general waste stream and encouraging reuse and recycling, will allow for a smaller volume of general waste per household and thereby deter remote dumping.

MEASUREABLE GOALS AND OBJECTIVES

Improved capacity for more effective waste management

- Identify the equipment to best handle Wrangell's recycling needs
- Purchase equipment and provide necessary staff training.
- Identify stakeholders in the community interested in the development of a recycling plan to manage solid waste and provide ongoing assistance

Develop an education program for the community to recycle

- Addressing environmental benefits
- Address personal benefits
- Address how and where

Collect debris from at least three remote dump sites.

- Identify sites impacting streams, wetlands or coastal resources; food gathering areas; recreation areas.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE:

This project is consistent with CIAP Authorized Use #1 *Projects and activities for the conservation, protection or restoration of coastal areas, including wetlands*. The proposed project (assessment and equipment purchase) will provide a means to reduce the volume of individual trash through recycling. Minimizing an individual's pick-up costs is expected to deter unauthorized remote dumping which is impacting the coastal environment. Providing easily accessible recycling collection points and education as to the personal and environmental benefits will encourage more residents to recycle. Actually cleaning up three sites in areas that impact streams or coastal areas, popular food gathering or recreational areas will not only restore the coastal area that was impacted, but itself can be an educational tool. The promotion and partner participation generated from the clean up activity is an important tool that encourages recycling, educates what resources the remote dumping was impacting, and deters additional remote dumping. By minimizing the remote dumping, less toxins and contaminants will find its way into streams, wetlands and coastal areas, protecting the nearshore habitats as well as food sources.

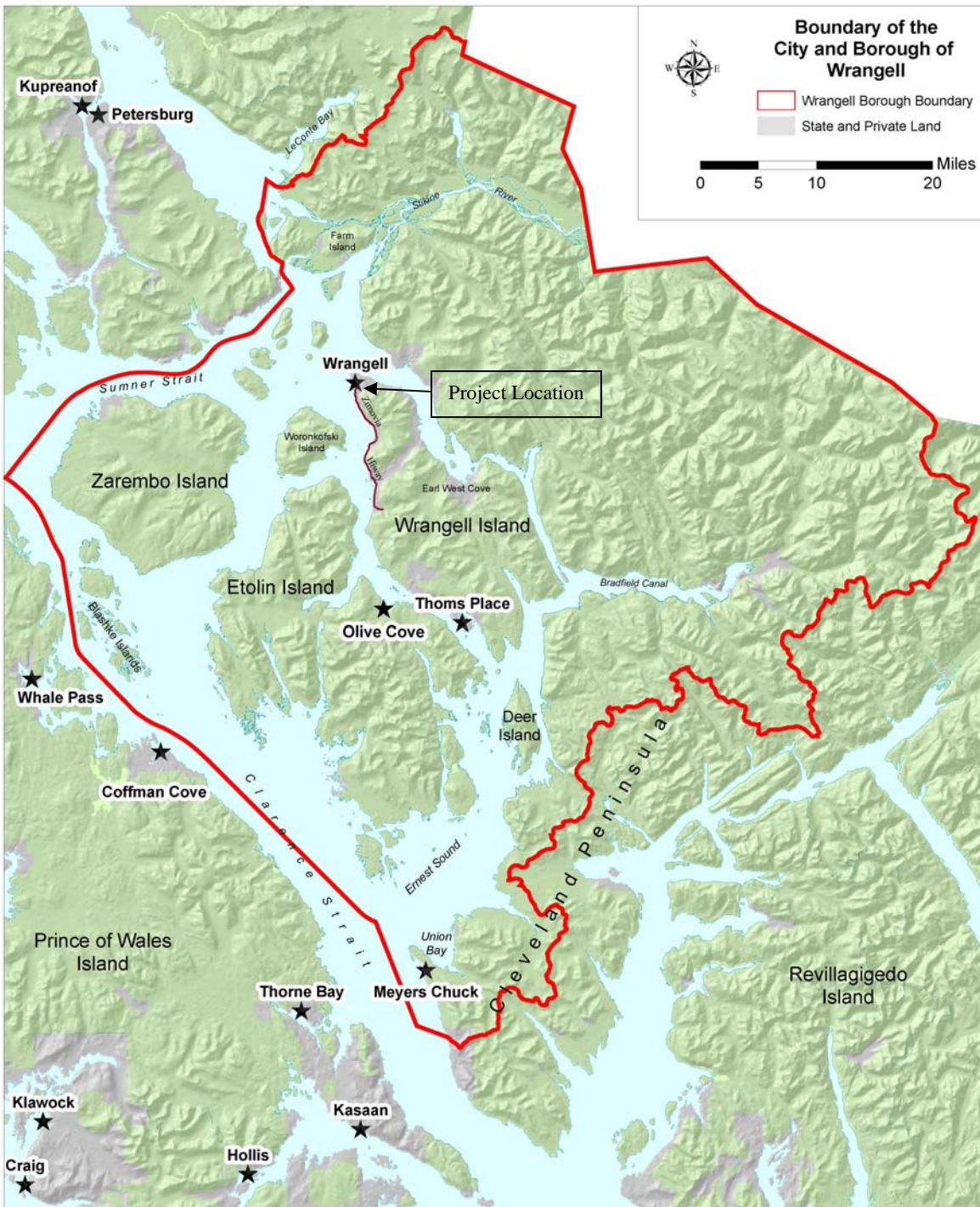
COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS:

The Borough has not formally coordinated with federal resources or programs on this project. However, the Borough has collaborated with the U. S. Environmental Protection Agency (EPA) on a local Brownsfield junkyard site potentially impacting the coastal resources.

COST SHARING OR MATCHING OF FUNDS:

CIAP funds may be used for cost sharing or matching purposes required by another grant. If they are used in this manner, a letter will be included with the CIAP grant application from the other Federal or State agency (the agency charged with administering the program that includes the cost of sharing or matching requirement) indicating that the other agency's program allows the use of Federal funds to meet cost sharing or matching requirements.

Location of Wrangell in southeast Alaska



**STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM**

CITY AND BOROUGH OF WRANGELL

The Borough will be conducting this project as a legislatively named CIAP recipient
on behalf of the State of Alaska

PROJECT TITLE: Storm Water Assessment and Management Plan

PROJECT CONTACT

Contact Name: Carol Rushmore, Economic Development Director
Address: Box 531, Wrangell, AK 99929
Telephone Number: (907) 874-2381
Fax Number: (907) 874-3952
Email Address: ecoddev@wrangell.com

PROJECT LOCATION

The proposed Storm Water Management Plan would be for the community of Wrangell which is located on the northern end of Wrangell Island within the City and Borough of Wrangell. Wrangell is located approximately 70 miles north of Ketchikan in central southeast Alaska, surrounded by the Tongass National Forest. Wrangell is a community of 2000 people and the primary commercial center for the remote outlying settlement areas scattered within the borough. Access to Wrangell is by jet plane, charter planes, ferry or other marine transportation. Most of our goods are shipped in via barges. Marine transportation is the primary mode of transportation on and off the island. Commercial fishing is one of our primary industries, along with tourism.

PROJECT DURATION

This is a one year project.

ESTIMATED COST

Spending Estimate (\$)				
TOTAL	Year 1	Year 2	Year 3	Year 3.5
\$72,000	\$72,000	0	0	0

All of the funding will be with FY 10 funding.

Funding per Allocation Year of CIAP (\$)				
TOTAL	FY 07	FY 08	FY 09	FY 10
\$72,000	0	0	0	\$72,000

PROJECT DESCRIPTION

Wrangell, in an effort to provide land and infrastructure for economic development opportunities, is considering a variety of development options throughout the community. These include Industrial Park Expansion, Downtown Revitalization, Medical complex and Marine Yard expansion, Heritage Harbor Upland Development and residential expansion. Wrangell's storm water treatment system, if it exists at all, is very old. Culverts are flattened and deteriorated, many need to be enlarged. Catch basins are few and there are no oil/water separators except in the newly constructed Marine Boat Yard. The existing storm system only exists in a small part of the community. Where a collection system does exist, it either provides direct outfall into Zimovia Straits or into our Inner Harbor, impacting coastal resources, or it is connected into our sewer treatment system. Homes or businesses that have storm systems connect into the sewer system. In a community that receives 80 inches a year of precipitation, during our heaviest of rainy months, this results in dilution of our sewer treatment ponds which does not have the capacity to handle the excessive flows. This results in Wrangell exceeding its permit volume, resulting in more particulates, faster flows entering the coastal areas.

In some areas, there is no existing storm water treatment system, such as in our Industrial Park, new residential and new medical complex area. Wrangell is in the beginning stages for planning for these expansions. As part of these planning efforts, the city must determine how best to install a storm water system and link to existing or other future development areas. The Industrial Park development, for example, drains directly into adjacent wetlands or ditches that channel into a wetland area adjacent to the elementary school, through a residential district, and ultimately outfalls into the City's Inner Harbor area.

This proposed project will evaluate and assess the condition and location of our existing storm water treatment system. The borough will hire a contractor to analyze Wrangell's existing storm water systems, identify water flows and drainage patterns in areas proposed for development, and look at flows and drainages in developed areas to make recommendations and provide options for addressing storm water impacts to the environment. The proposed storm water assessment and management plan will identify what we currently have, (manholes, catch basins, piping etc), the condition of the system, drainage patterns for areas without a storm water system, what we need to develop a working storm water treatment system and how we should provide a system. Much of the detailed engineering work would occur during actual project design, but planning ahead will help us be able to provide a coordinated and efficient system. As the Borough provides new developments and replaces infrastructure, we can include a storm water treatment system that is organized and efficient and linked together

Attached is an aerial photo of the project area and the existing old stormwater system.

MEASUREABLE GOALS AND OBJECTIVES

This project will result in an assessment tool to assist the City and Borough of Wrangell during project planning and infrastructure development in order to protect and conserve streams, wetlands and coastal areas. The document will provide a plan for installation of a storm water treatment system throughout the community to be installed in future

developments and expansion opportunities in an organized and efficient design. The assessment would also provide a baseline of data identifying our critical runoff and outfall areas impacting the coastal resources through high turbidity, particulates, oil and water.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE:

This project is consistent with CIAP Authorized Use #1 *Projects and activities for the conservation, protection or restoration of coastal areas, including wetlands.*

The proposed assessment will provide options for a coordinated plan for installing a proper storm water treatment system in future project and infrastructure development activities. Installation of a storm water collection system in any development activity will reduce the amount of turbidity, particulates, oil and water entering the coastal environment, thereby protecting, conserving and restoring coastal areas and wetlands.

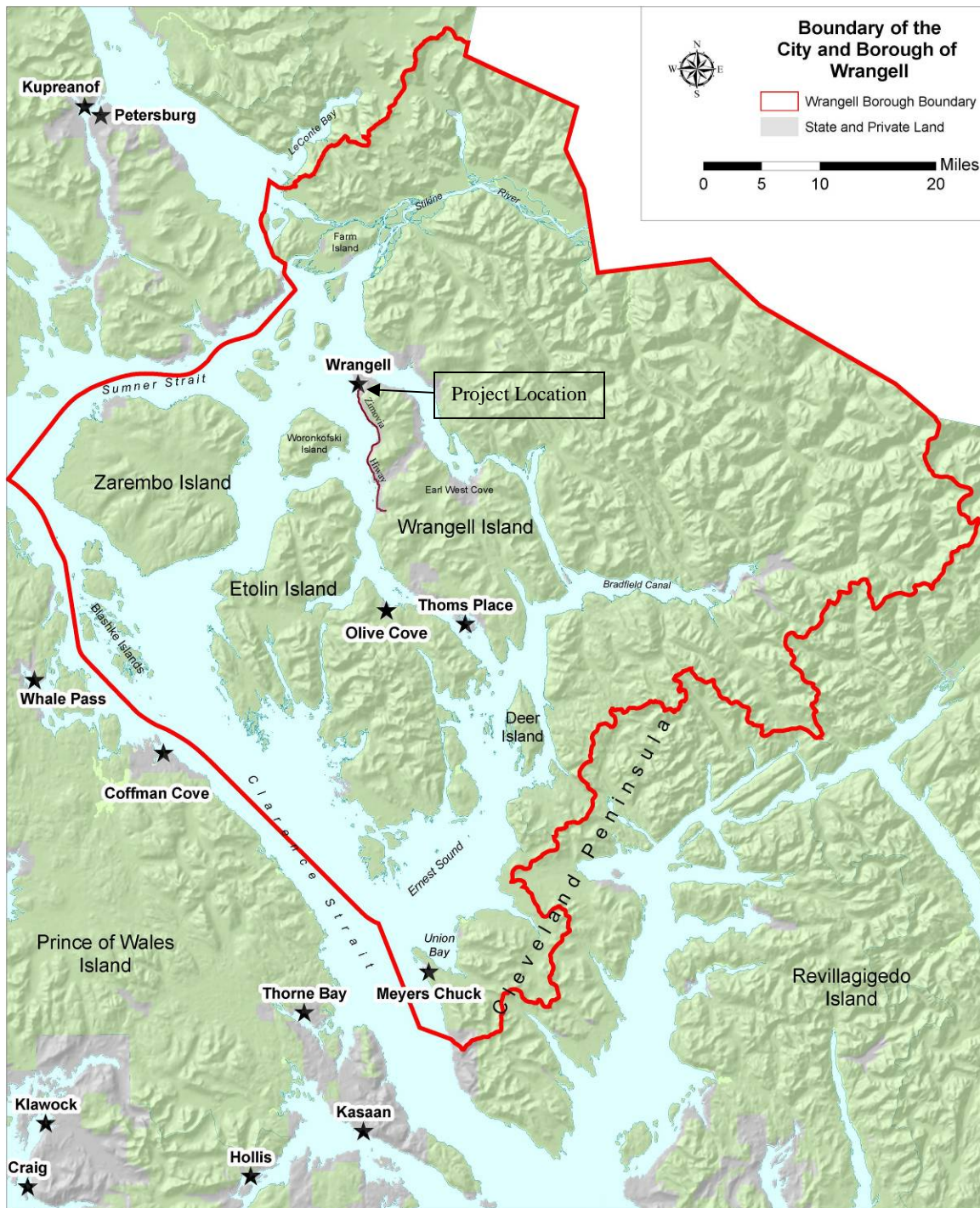
COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS:

None is anticipated at this time.

COST SHARING OR MATCHING OF FUNDS:

CIAP funds may be used for cost sharing or matching purposes required by another grant. If they are used in this manner, a letter will be included with the CIAP grant application from the other Federal or State agency (the agency charged with administering the program that includes the cost of sharing or matching requirement) indicating that the other agency's program allows the use of Federal funds to meet cost sharing or matching requirements.

Location of Wrangell in southeast Alaska

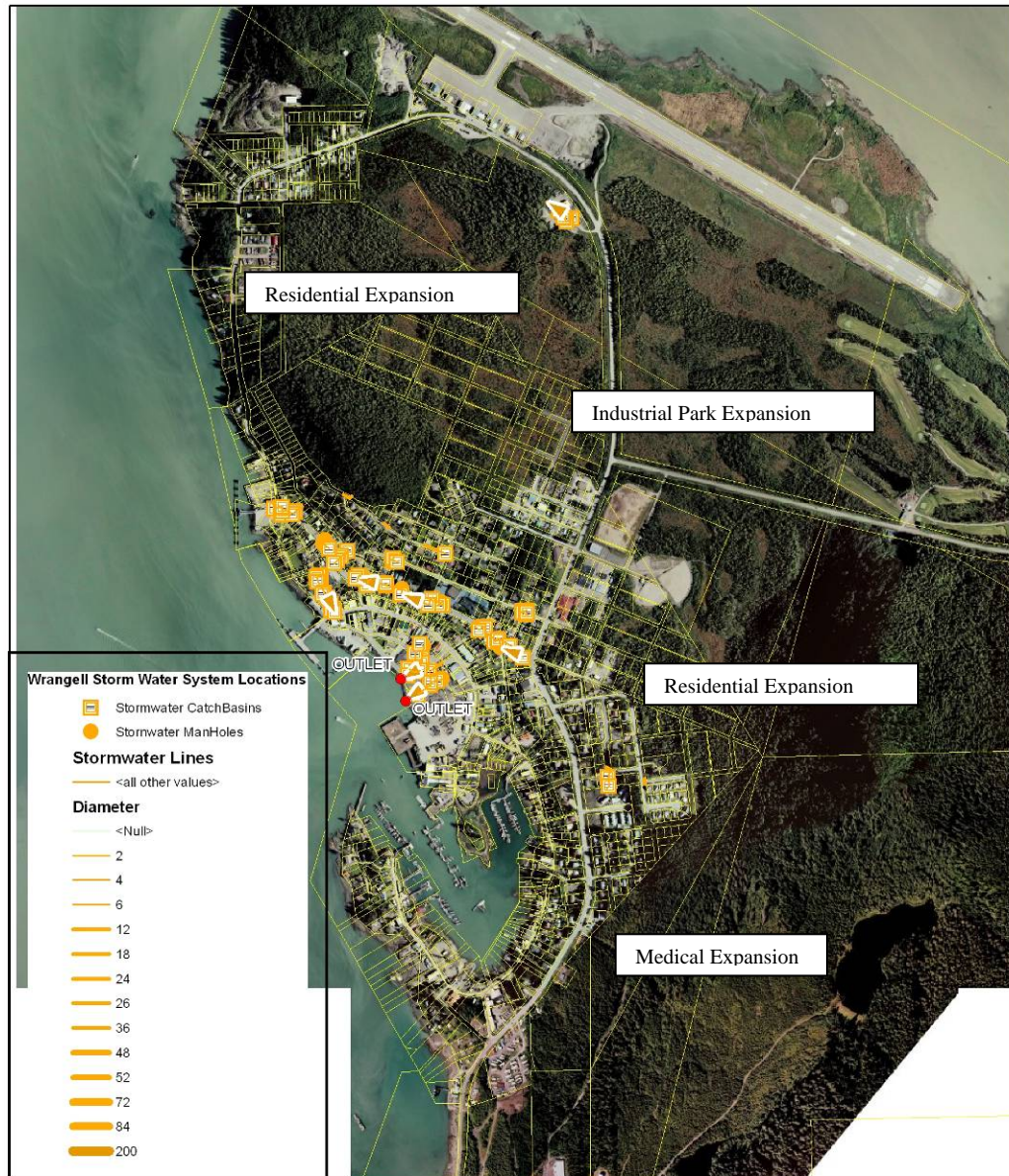


Photos of deteriorated culverts



Aerial of project area with existing storm water system

CITY AND BOROUGH OF WRANGELL, ALASKA



1 inch = 1,359.004427 feet

DISCLAIMER: THESE MAPS ARE FOR PLANNING PURPOSES ONLY.
PROPERTY LINES ARE APPROXIMATE. UPDATED: MARCH 2019



**STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM**

CITY AND BOROUGH OF WRANGELL

The Borough will be conducting this project as a legislatively named CIAP recipient
on behalf of the State of Alaska

PROJECT TITLE: Heritage Harbor Storm Water Treatment System Development

PROJECT CONTACT

Contact Name: Carl Johnson
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Telephone Number: (907) 874-3904
Fax Number: (907) 874-3952
Email Address: wrgworks@gci.net

PROJECT LOCATION

The proposed storm water treatment system will be installed on the uplands adjacent to Heritage Harbor in Wrangell, AK. Wrangell is located in central southeast Alaska at the northern end of Wrangell Island, 155 miles south of Juneau and 89 miles northwest of Ketchikan. It is near the mouth of the Stikine River, a historic trade route to the Canadian Interior. It lies at approximately 56.470830° North Latitude and -132.376670° West Longitude (Sec. 25, T062S, R083E, Copper River Meridian). Please see attached map of project location.

PROJECT DURATION

The construction project will be completed by the end of 2011.

ESTIMATED COST

Spending Estimate (\$)				
TOTAL	Year 1	Year 2	Year 3	Year 3.5
\$85,692.85	\$85,692.85	0	0	0

All of the funding will be with FY 10 funding.

Funding per Allocation Year of CIAP (\$)				
TOTAL	FY 07	FY 08	FY 09	FY 10
\$85,692.85	0	0	0	\$85,692.85

PROJECT DESCRIPTION

Wrangell is a community of 2000 people located in central southeast Alaska at the northern end of Wrangell Island in the Tongass National Forest. Wrangell is the primary commercial center for the remote outlying settlement areas scattered within the borough. Access to Wrangell is by jet plane, charter planes, ferry or other marine transportation. Most of our goods are shipped in via barges. Marine transportation is the primary mode of transportation on and off the island. Commercial fishing is one of our primary industries.

Heritage Harbor, Wrangell's newest commercial vessel harbor, opened for public use in 2007. The project was broken into three phases allowing the City time to find the additional funds necessary for a full harbor build out. The proposed project will construct a Storm Water Treatment System for the upland development area to the harbor, as part of Phase III.

Phase I, consisting of the construction of the navigational features (breakwater), and three finger piers with stalls was completed in 2007 allowing commercial vessels to move into the harbor. Phase II, the addition of final two finger piers with stalls was completed May 2010 in time for this fishing and boating season. Phase III, consisting of the construction of the storm water treatment system, parking lot paving, and public restroom is currently in engineering design (65% complete). CIAP funds will be used to construct the storm water treatment system in 2011. The system will collect and treat runoff from the parking lot area, adjacent roadway, and structures within the harbor uplands in oil and water separators in order to minimize contaminated storm water, primarily oil, from entering the marine environment.

Currently, all storm water run-off from the adjacent Zimovia Highway and the harbor parking lot flows directly into the harbor through ground seepage or through direct run off. The proposal involves installing a complete and approved storm water treatment system with catch basins, oil water separators and piping for treating and removing the treated storm water. The storm water system outfall will be located beyond the breakwater for final discharge of treated water. The outfall is located at the lowest elevation and the currents and tidal action will further dilute the water.

The parking lot area will be asphalt paved for easier drainage, collection and treatment of storm water run-off and to minimize the dust and particulate contamination. Keeping petroleum products from entering the harbors and waterways of Alaska has been and continues to be a problem. By making sure Wrangell's new facility is constructed properly, Wrangell will protect the marine environment.

The surface runoff of the surrounding uplands will be collected by sheet flow into area drains, manholes and storm drain piping system. The surface runoff will be treated by passing through an oil water separator prior to discharge. The oil water separator treatment system will be sized to remove solid particles greater than 20 microns in size for the 2 year 6 hour rain event per Alaska Department of Environmental Conservation requirements.

Only clean materials will be introduced into the waters. When possible, all in-water work will be limited to low tide in order to reduce turbidity. In-water work will be restricted between March 15 to June 15 to reduce impacts to salmonids and spawning herring. Asphalt concrete paving will be used as surface material for the parking area rather than the existing gravel surface. This will aid in drainage and reducing sedimentation in the surrounding waters. Erosion and sediment control devices such as a silt fence or straw bales will be utilized during construction.

Attached is an aerial photo of the project area.

MEASUREABLE GOALS AND OBJECTIVES

Goal: Construct a storm water collection system for Heritage Harbor uplands.

Measured by:

- Installation of collection system and oil/water separators
- Reduction of the direct flow of untreated storm water into the marine environment through a collection and treatment system
- Water quality testing or visual observation of grab samples of treated water prior to discharge from outfall.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE:

This project is consistent with CIAP Authorized Use #1 *Projects and activities for the conservation, protection or restoration of coastal areas, including wetlands.*

The proposed project will protect the coastal area from contaminated storm water generated from the new construction of Heritage Harbor, from entering the marine environment. Wrangell receives approximately 80 inches of rain annually, so treating the run-off from this concentrated area will protect aquatic resources. The storm water collected from the adjacent Zimovia Highway and the newly paved harbor parking area will be treated before it is dispersed back into the marine environment. The outfall releasing the treated storm water will be located on the outside of the harbor breakwater at the lowest elevation possible where it will be readily flushed and diluted in the currents and tides, rather than dispersing directly into the calm waters of Heritage Harbor with slower flushing action. The oil water separator treatment system will be sized to remove solid particles greater than 20 microns in size for the 2 year 6 hour rain event per Alaska Department of Environmental Conservation requirements. Fresh water is less dense than salt water and thereby floats on the surface. Because there is limited flushing within the breakwater-protected basin, ice forms within the harbor basin during cold winter months, also disrupting productivity.

Construction of Heritage Harbor and the upland developments created the need for the collection and treatment of the storm water in order to meet state and federal storm water regulations. Vehicles utilizing the adjacent highway and the upland harbor parking area will drip oils and fuels on the ground, which ends up in the receiving waters surrounding our community. The installation of the storm water collection and treatment system along with the paving and drainage of the parking lot will help reduce dispersal of contaminated storm water directly into the harbor and the marine environment. The storm water from the adjacent Zimovia Highway and the paved upland and parking areas will be treated through oil and water separator before being released from an outfall outside the breakwater and at the lowest elevation possible. This

will reduce contaminants within the harbor, and into the marine environment. Alaskan Harbors are starting a "Clean Harbors" program which Wrangell supports and is participating in. Installation of this system reinforces our commitment to protect the aquatic resources from which so many in our community derive their livelihood.

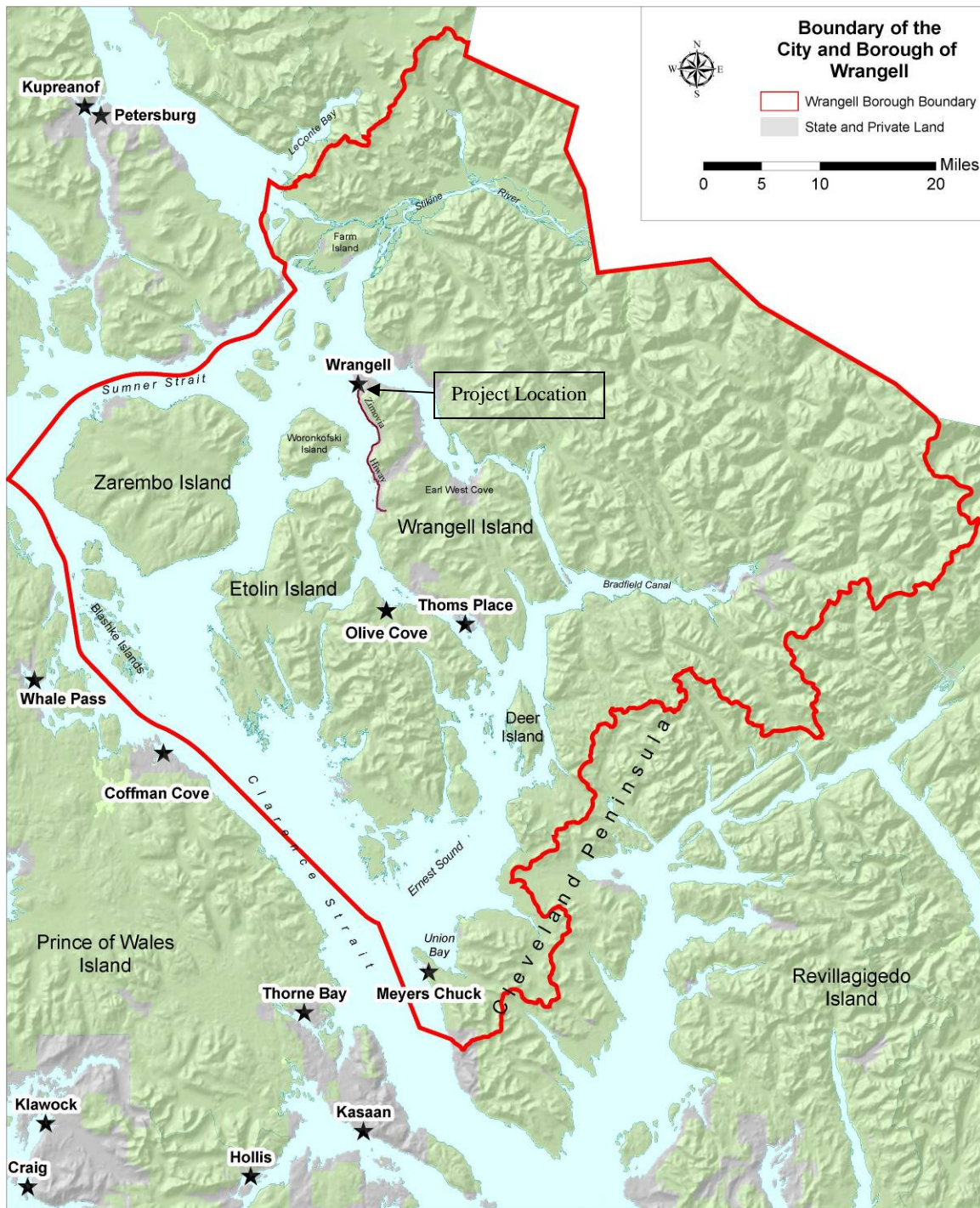
COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS:

Heritage Harbor Phase I was constructed cooperatively with the U.S. Army Corps of Engineers. Section 404 permits for fill in US Navigable waters were obtained for the navigational features and in water floats. The City and Borough of Wrangell are now modifying the permit to construct additional upland improvements, including a public restroom, the storm water treatment facility and parking lot paving to assist with drainage.

COST SHARING OR MATCHING OF FUNDS:

CIAP funds may be used for cost sharing or matching purposes required by another grant. If they are used in this manner, a letter will be included with the CIAP grant application from the other Federal or State agency (the agency charged with administering the program that includes the cost of sharing or matching requirement) indicating that the other agency's program allows the use of Federal funds to meet cost sharing or matching requirements.

Location of Wrangell in southeast Alaska



2010 Aerial of Heritage Harbor and Wrangell



**STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM**

CITY AND BOROUGH OF WRANGELL

The Borough will be conducting this project as a legislatively named CIAP recipient
on behalf of the State of Alaska

PROJECT TITLE: Wrangell Coastal Resources Interpretive Signage

PROJECT CONTACT

Contact Name: Carol M. Rushmore, Economic Development Director
Address: Box 531, Wrangell, AK 99929
Telephone Number: (907) 874-2381
Fax Number: (907) 874-3952
Email Address: ecoddev@wrangell.com

PROJECT LOCATION

The City and Borough of Wrangell is located on the northwest tip of Wrangell Island, 155 miles south of Juneau and 89 miles northwest of Ketchikan. It is near the mouth of the Stikine River, a historic trade route to the Canadian Interior. It lies at approximately 56.470830° North Latitude and -132.376670° West Longitude (Sec. 25, T062S, R083E, Copper River Meridian).

The proposed interpretive signs would be located at each of our three harbors, at the entrance to City Dock, along two different waterfront walkways in the downtown area, and on Front Street adjacent to our Marine Boat Yard.

PROJECT DURATION

This is a one year project.

ESTIMATED COST

Spending Estimate (\$)				
TOTAL	Year 1	Year 2	Year 3	Year 3.5
\$20,000	\$20,000	0	0	0

All of the funding will be with FY 10 funding.

Funding per Allocation Year of CIAP (\$)				
TOTAL	FY 07	FY 08	FY 09	FY 10
\$20,000	0	0	0	\$20,000

PROJECT DESCRIPTION

Wrangell is proposing to design and install at least 5 interpretive signs throughout the community to educate residents and visitors about the coastal resources. The signs would be placed in strategic locations and interpret the activity, its importance to the community, and ways the activity benefit/impact coastal resources, and interpret the unique resources in that particular area. For example, we propose 5-7 signs.

1) Located at City Dock – describing the use of the dock, importance as an economic tool to the community for cruiseships and yachts, historically for logging ships, and the resources in and around the docks such as seals, sea lions, salmon, whales, and the eagles, cormorant and ducks and shorebirds.

2-4) Signs located at each of the three harbors – identifying the different commercial fishing boats, the different fisheries, and special resources at each harbor. Inner Harbor/Reliance - Shakes Island and Tribal House and the benthic environment of the intertidal flats, seals, birds. Heritage Harbor – Fisherman’s memorial, whales out front, birds, and the native cemetery adjacent. Shoemaker Bay harbor – crabbing and clamming, salmon, seals, eagles, herons.

5-6) Located on waterfront walkways – describing the view of the nearby islands within the Tongass National Forest, our location in a temperate rainforest, the rich diversity of the Stikine River delta (for one of the signs) the birds, fish, whales, sealions, seals, otters that frequent the area.

7) Located on Front Street adjacent to the Marine Boat Yard – this is a great example to showcase the lift, the different stored boats and yard activities, and emphasize how all the boat work is collected through a storm water system and treated prior to release into the Zimovia Straits in order to protect our marine environment.

MEASUREABLE GOALS AND OBJECTIVES

This project will result in at least 5 strategically placed signs educating the public on our unique and diverse coastal resources.

- Partners in this project include the Wrangell Convention and Visitor Bureau, Wrangell Port and Harbors, and the Chamber of Commerce, and work together to identify and outline information.
- Borough will contract with graphic artist for design prior to printing with a professional sign maker with whom the Borough has worked with previously.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE:

This project is consistent with CIAP Authorized Use #1 *Projects and activities for the conservation, protection or restoration of coastal areas, including wetlands*. The proposed project will help educate the public on the importance of the marine resources that occur in our area and encourage conservation and protection of those resources.

COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS:

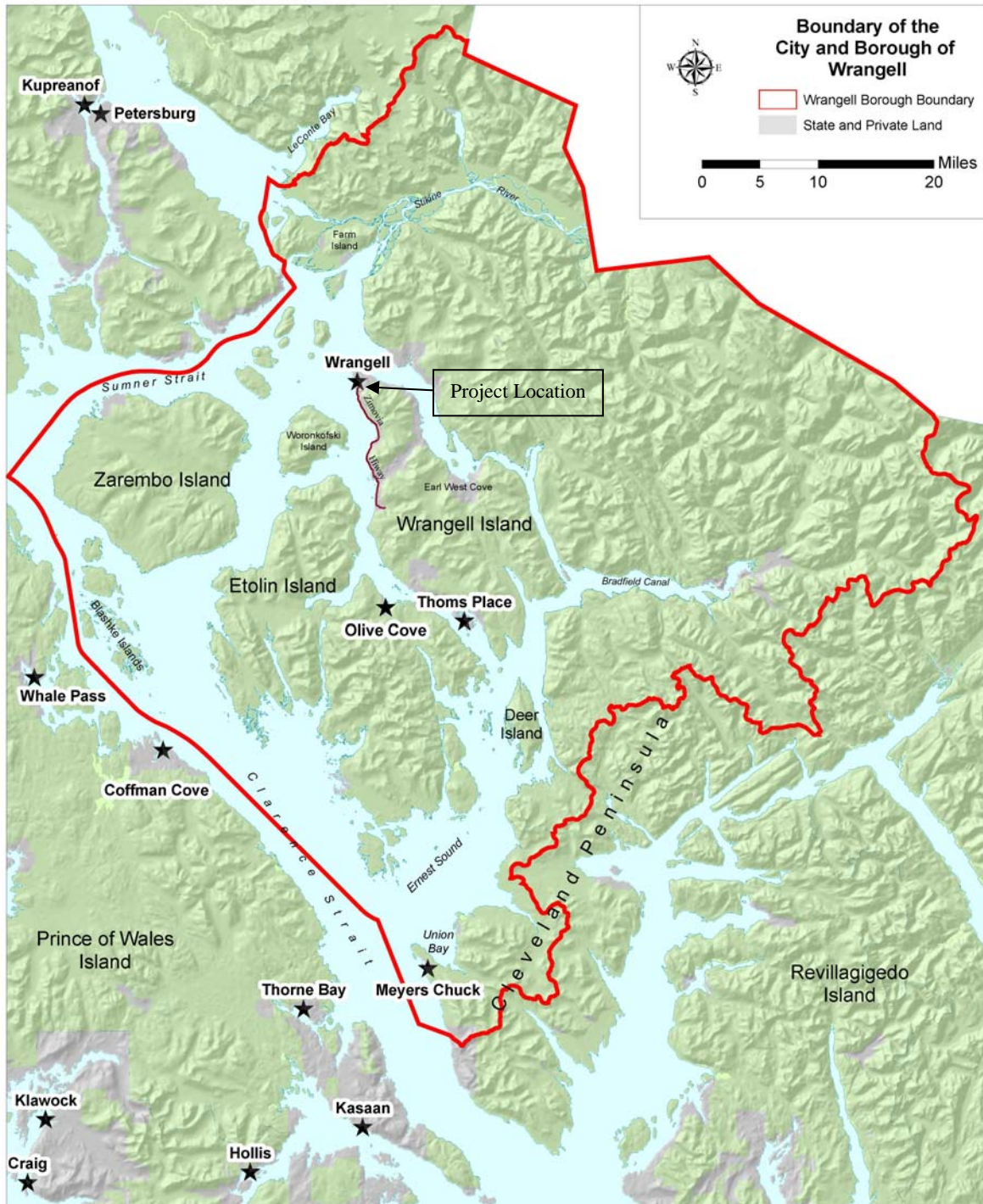
None is anticipated at this time.

COST SHARING OR MATCHING OF FUNDS:

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Federal or State agency (the agency charged with administering the program that includes the cost of sharing or matching requirement) indicating that the other agency's program allows the use of Federal funds to meet cost sharing or matching requirements.

Location of Wrangell in southeast Alaska



Aerial showing potential locations of signs.

CITY AND BOROUGH OF WRANGELL, ALASKA



1 inch = 453.001476 feet

DISCLAIMER: THESE MAPS ARE FOR PLANNING PURPOSES ONLY.
PROPERTY LINES ARE APPROXIMATE. UPDATED MARCH 2010



**STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM**

CITY AND BOROUGH OF WRANGELL

The Borough will be conducting this project as a legislatively named CIAP recipient
on behalf of the State of Alaska

PROJECT TITLE: Wrangell Community Waterfront Strategic Management Plan

PROJECT CONTACT

Contact Name: Carol M. Rushmore, Economic Development Director
Address: Box 531, Wrangell, AK 99929
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PROJECT LOCATION

The City and Borough of Wrangell is located on the northwest tip of Wrangell Island, 155 miles south of Juneau and 89 miles northwest of Ketchikan. It is near the mouth of the Stikine River, a historic trade route to the Canadian Interior. It lies at approximately 56.470830° North Latitude and -132.376670° West Longitude (Sec. 25, T062S, R083E, Copper River Meridian).

The proposed Waterfront Strategic Management Plan would encompass the primary commercial, industrial and residential area of Wrangell which includes the downtown harbors, port industrial area, and core commercial area of the community as well as residential areas of Wrangell, from Reliance Harbor to the Ferry Terminal to Wrangell Airport, and Wrangell Medical Center.

PROJECT DURATION

This is a one year project.

ESTIMATED COST

Spending Estimate (\$)				
TOTAL	Year 1	Year 2	Year 3	Year 3.5
\$70,000	\$70,000	0	0	0

All of the funding will be with FY 10 funding.

Funding per Allocation Year of CIAP (\$)				
TOTAL	FY 07	FY 08	FY 09	FY 10
\$70,000	0	0	0	\$70,000

PROJECT DESCRIPTION

A community/waterfront strategic management plan is critically needed to address the growth in critical industries, but potentially conflicting uses. The waterfront area is limited in expansion opportunities, and growth and overlapping uses currently exist. To date there have been minimal conflicts, but the potential for competing space is growing, thus reducing access and use by other critically important industries. These heavier commercial and industrial uses also may potentially put a strain on coastal resources through fill, storm water runoff, debris, or other activity. Further construction of commercial and residential areas will impact wetland resources. The plan is vital to identify impacts, address alternatives to avoid impacts or minimization of any impacts and determine the community's vision for the waterfront and linkages between districts.

The Waterfront Strategic Management Plan encompasses an area of approximately 700 acres (see attached map). Current, potentially conflicting uses include harbors and access areas; Tlingit cultural sites; industrial activities such as seafood processing, marine travel lift and boat yard, barge yard, and machine shop; residential (multifamily, bunkhouses, single family); commercial district; tourism sites (tribal house, totem park, convention center and museum; transportation hubs (barge ramp, deepwater docks, floats); and open space. Conflicting uses and competing demands on the land and access may soon create community disharmony.

There have been several independent planning efforts undertaken within the project area, but due to lack of funds, narrow program interests, or lack of foresight of organizations, the studies do not comprehensively address the conflicting uses and land areas. The studies all acknowledge the potential conflicts and recommend further analysis. The planning efforts to date include:

- 1) A design plan for the Travel Lift and marine Boat yard.
- 2) A conceptual design for downtown revitalization. This effort focuses only on Front Street from the City cruiseship dock to the inner harbor. The study acknowledges the importance of the linkages from Front Street to the water front, but encompassing the larger area was outside the scope of the project.
- 3) A port master plan. This effort only looks at the lands under the jurisdiction of the Wrangell Ports and Harbors and the needs of the Port, acknowledging projects surrounding the port and the need to address potential conflicts. The plan does not address competing uses for the land.
- 4) Mitigation Plan for medical complex. This effort is in the planning stage but is only looking at mitigation for site specific impacts to wetland resources for the medical complex development.
- 5) A borough-wide comprehensive plan. This plan looked at the potential development needs and desires of the borough residents in the downtown area and identified the need for more in depth analysis of public access, linkages, infrastructure, interpretive opportunities of resources and property usage.

The City and Borough of Wrangell has several infrastructure projects planned within the project area, including the construction of the Downtown Revitalization plan, improvements to the City Dock (cruise ship dock), improvements to Stikine Avenue (along the waterfront walkway, improvements to Evergreen Avenue along the shoreline and to Petroglyph Beach, public space area adjacent to our Nolan Center and Museum, development of a medical complex, and fill for port expansion. Private companies also

have development plans that need to be included in the Waterfront Strategic Management Plan.

MEASUREABLE GOALS AND OBJECTIVES

This project will result in a strategic management planning document that will be adopted by the Borough to guide future developments and expansion opportunities in wetlands and the coastal area of the high density area of Wrangell. The borough will work with a contractor to:

- Identify the competing uses and demands within the waterfront and coastal area
- Identify the stakeholders
- Identify the values and benefits of the resources, sensitive areas
- Identify potential impacts to the coastal resources from the potential uses
- Identify
- Develop overall goals for the area for development, resource use, public access, resource protection
- Address options to avoid and minimize impacts to wetlands and coastal resources
- Identify opportunities to educate the public regarding the benefits and importance of wetlands and coastal resources
- Address the resolution of potential conflicts between the competing uses.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE:

This project is consistent with CIAP Authorized Use #1 *Projects and activities for the conservation, protection or restoration of coastal areas, including wetlands*. The proposed waterfront strategic management plan will protect and conserve critically sensitive wetlands and coastal areas in the project boundary. The plan will guide the borough's planning of future developments away from critical resources, identify access and linkages to waterfront and environmental resources, offer potential mitigation opportunities to preserve and protect wetland and coastal resources and offer alternative construction methods to avoid or minimize impacts. The development will also provide an important venue through which the many stakeholders in the project area or persons using the services within the project area can become involved in the decision-making that affects the resources of Wrangell.

COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS:

It is intended that the information gathered from public meetings and input in the development of this strategic management plan, and the end products generated from this proposal will strengthen Wrangell resident meaningful participation in local, state and federal resource-use planning and permitting programs. We do anticipate working with State DNR and Fish and Game regarding coastal resources, the Wrangell Cooperative Association (federally recognized tribe), and the Corps of Engineers to discuss impacts from fill or other in-water work.

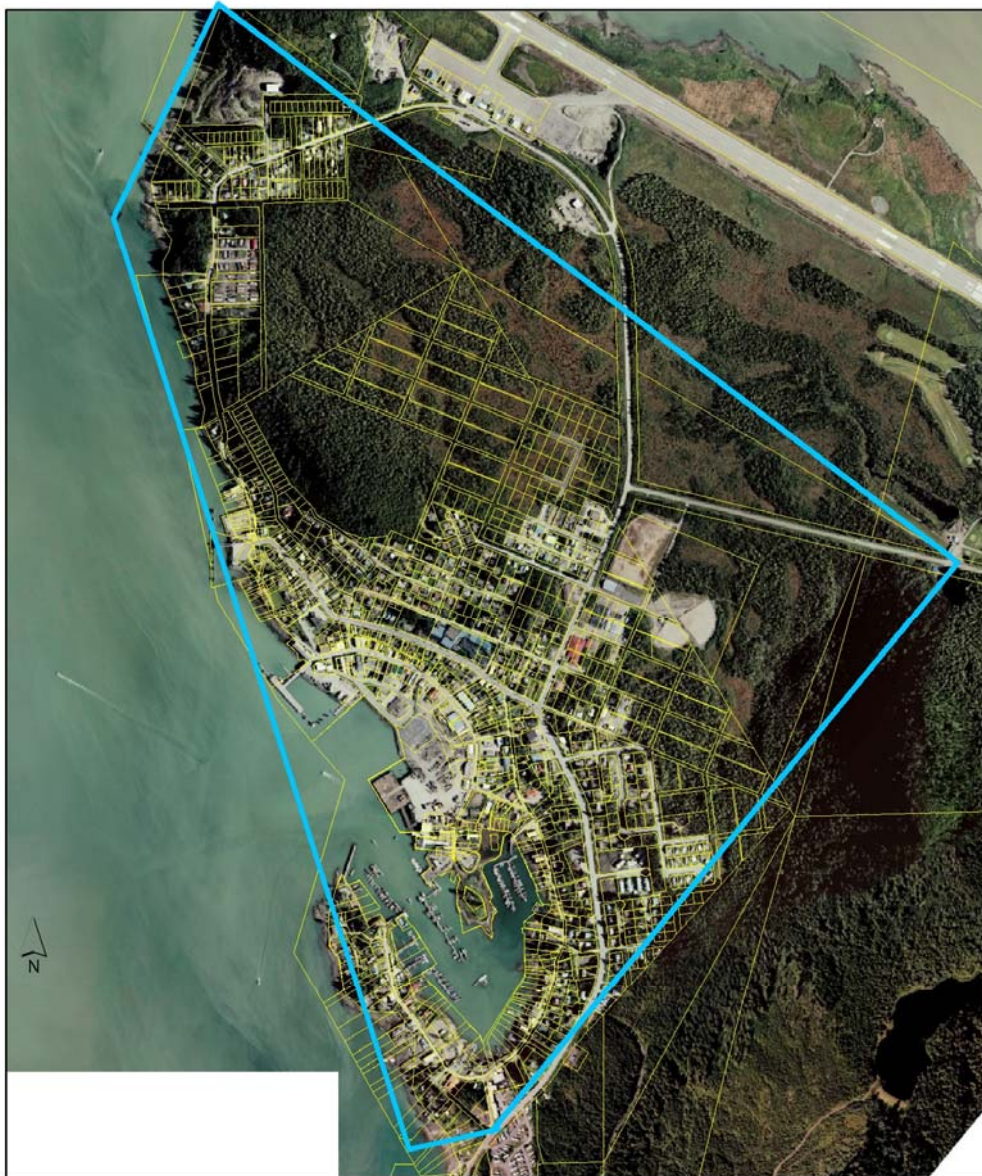
COST SHARING OR MATCHING OF FUNDS:

CIAP funds may be used for cost sharing or matching purposes required by another grant. If they are used in this manner, a letter will be included with the CIAP grant application from the other

Federal or State agency (the agency charged with administering the program that includes the cost of sharing or matching requirement) indicating that the other agency's program allows the use of Federal funds to meet cost sharing or matching requirements.

Aerial of Project Area for the Waterfront Strategic Management Plan

CITY AND BOROUGH OF WRANGELL, ALASKA



DISCLAIMER: THESE MAPS ARE FOR PLANNING PURPOSES ONLY.
PROPERTY LINES ARE APPROXIMATE. UPDATED MARCH 2010

1 inch = 1,191.742096 feet

